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GRAPHS OF NEUTRON CROSS SECTIONS IN  
JSD1000 FOR RADIATION SHIELDING SAFETY  
ANALYSIS

March 1984

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Graphs of Neutron Cross Sections in JSD1000  
for Radiation Shielding Safety Analysis

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(Received February 1, 1984)

Graphs of neutron cross sections and self-shielding factors in the JSD1000 Library are presented for radiation shielding safety analysis. The compilation contains various reaction cross sections for 42 nuclides from  $^1_0\text{H}$  to  $^{241}_{95}\text{Am}$  in the energy range from  $3.51 \times 10^{-4}$  eV to 16.5 MeV. The Bondarenko-type self-shielding factors of each reaction are given by the background cross sections from  $\sigma_0 = 0$  to  $\sigma_0 = 10000$ .

Keywords: Neutron, Cross Section, Self-shielding Factor, Graphs, JSD1000 Code, Multi-group, Transport, Calculation, Radiation Shielding, Safety Analysis.

遮蔽安全解析用群定数ライブラリ  
JSD1000の中性子断面積グラフ集

日本原子力研究所東海研究所安全解析部

山野直樹

(1984年2月1日受理)

遮蔽安全解析のために作成された群定数ライブラリJSD1000の中性子断面積及び自己遮蔽係数のグラフが呈示されている。このグラフ集にはエネルギー領域 $3.51 \times 10^{-4} \text{ eV} \sim 16.5 \text{ MeV}$ における $^1\text{H}$ から $^{241}\text{Am}$ までの42核種に対する種々の反応断面積が収められている。Bondarenko型の自己遮蔽係数については各反応毎にバックグラウンド断面積 $\sigma_0$ の値を0～10000の範囲で与えている。

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## 1. Introduction.

In 1977, the Japan Atomic Energy Research Institute provided multi-group cross section libraries of JSD100/120/DLC-51<sup>1)</sup> as a part of the shielding calculations scheme RADHEAT-V3/CCC-300<sup>2)</sup>. Many experiences of use of the JSD100/120 have showed that the more rigorous treatment for producing the group cross sections should be proposed to evaluate the radiation shielding problems accurately and to offer the group cross sections as a standard library for the radiation shielding safety analysis. To meet the requirement, RADHEAT-V4<sup>3)</sup> has been developed as the revised version of RADHEAT-V3. Various improvements are included in the RADHEAT-V4 code system described below:

- (1) The resolved resonance treatment is updated by using the algorithm adopted in the RESEND<sup>4)</sup> program,
- (2) The Doppler-broadening procedure is adopted,
- (3) The ultra-fine group structure is adopted for generating the fine-group cross sections of each reaction,
- (4) The method representating the angular distribution of the scattering matrix is newly developed instead of the method of the finite Legendre expansion.

The data produced by the RADHEAT-V4 code system with the nuclear data of ENDF/B-IV<sup>5)</sup> are compiled in a direct-access data base and named JSD1000. The JSD1000 library is prepared for radiation shielding safety analysis and contains many types of data described below:

- (1) Ultra-fine group cross sections of each reaction,
- (2) Fine-group cross sections of each reaction,
- (3) Self-shielding factors of each reaction,
- (4) Secondary gamma-ray production cross sections,
- (5) Effective macroscopic group cross sections.

It is not easy to evaluate the huge data in the JSD1000 library, so that the convenient reference book

is needed for rapid estimation. Particularly, the neutron penetrations in shielding materials are much affected by the windows of the cross sections, so that the general shapes and trends of the cross section data are essentially important to radiation shielding safety analysis.

This report provides graphical representations of neutron cross sections and self-shielding factors in the JSD1000 library. The plots in the present compilation consist of fine-group cross sections, self-shielding factors and ultra-fine group cross sections in the energy range from  $3.51 \times 10^{-4}$  eV to 16.5 MeV for 42 nuclides used as source, shield, detector and structural materials. The temperature dependent data at 300°K are only compiled in the report, while the JSD1000 library contains the data at 300°, 560° and 900°K. The fine-group and the ultra-fine group energy structures consist of 100 and 3824 energy groups, respectively. The energy boundaries are described in the user's manual of JSD1000<sup>6)</sup>. The methods for generating the data are also described in the report. Bondarenko-type self-shielding factors of each reaction are provided by the background cross sections of  $\sigma_0 = 0, 1, 10, 100, 1000, 10000$  with the fine-group energy structure. The data plotting has been performed by using the computer code VISUAL<sup>7)</sup> which retrieves and plots the data of the JSD1000 library.

## 2. Description of Contents

The plots in the present compilation are presented by following order: (i) fine-group cross sections of each reaction, (ii) Bondarenko-type self-shielding factors of each reaction and (iii) ultra-fine group cross sections of each reaction. These data are presented by each nuclide from  $^1_1\text{H}$  to  $^{241}_{84}\text{Am}$  in ascending order of atomic number Z and mass number A.

The reaction type in the ultra-fine group cross sections is identified by reaction type number (MT number) of ENDF/B format as shown in Table 1. The other data are identified by reaction names at the top right corner in each plot. An example of the plot is shown in Fig. 1. The energy range of the plot is shown at the upper right corner as "ENERGY LOW" and "ENERGY HIGH". The "SIGO" means the background cross section selected as  $10^8$  for the infinitely diluted cross section. In the plot, "(N,A)" means (n, $\alpha$ ) reaction and "(N,G)" the (n, $\gamma$ ) reaction. The absorption cross section is given by the name of "CAPTURE". The

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Bondarenko-type self-shielding factors of each reaction are given by each background cross section  $\sigma_0$ .

The reaction type of the self-shielding factor is also shown by the reaction name. It is noted that the reaction name "CAPTURE" in the self-shielding factor means (n, $\gamma$ ) reaction. The  $\sigma_0$  value is ranged from 0 to 10000. However, the plot is omitted when the self-shielding factor is almost unity or the change by the  $\sigma_0$  value is small. The plot of cross section is also omitted when the value is constant to energy or the contribution to the total value is small.

Table 1 Identification number of reaction type  
in the ultra-fine group cross section.

Reaction type	Reaction I.D. No.
Total	1
Elastic scattering	2
Total inelastic scattering	4
Total (n,2n) scattering	16
Excited (n,2n) scattering	6-9 , 46-49
Fission	18
Neutrons per fission	452
(n,n' $\alpha$ ) scattering	22
(n,n' $3\alpha$ ) scattering	23
(n,2np) scattering	24
(n,n'p) scattering	28
Absorption	27
Inelastic discrete level	51-90
Inelastic continuum level	91
(n, $\gamma$ )	102
(n,p)	103
(n,d)	104
(n,t)	105
(n,He)	106
(n, $\alpha$ )	107
(n,2 $\alpha$ )	108

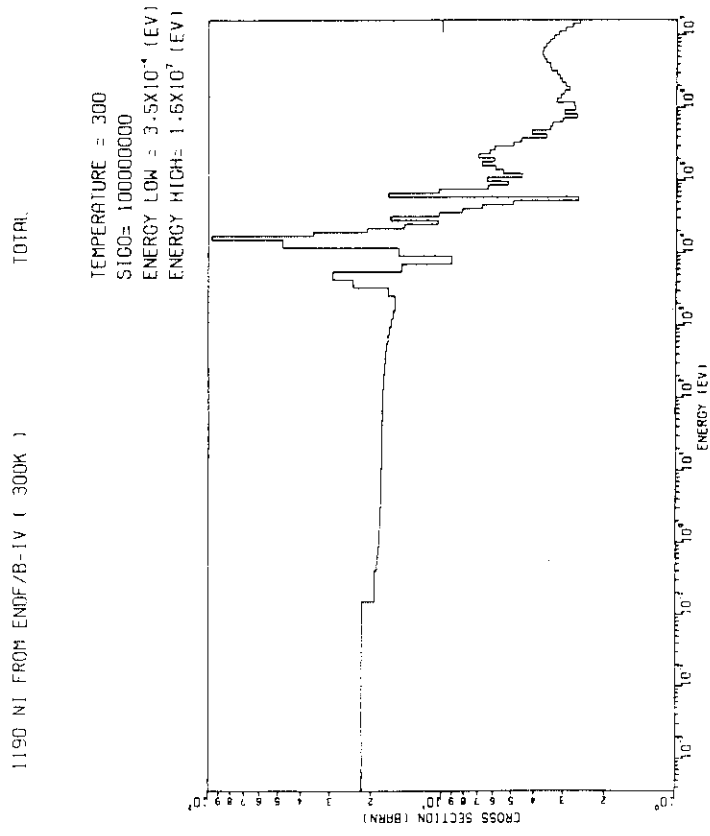


Fig. 1 Example of plot.

#### Acknowledgment

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1. Koyama K., Okumura Y., Furuta K. and Miyasaka S.: "Multi-Group Cross Section Sets for Shield Materials -100 neutron groups and 20 gamma-ray groups in  $P_5$  approximation-", JAERI-M 6928 (1977).
2. Koyama K., Minami K., Taji Y. and Miyasaka S.: "RADHEAT-V3, A Code System for Generating Coupled Neutron and Gamma-Ray Group Constants and Analyzing Radiation Transport", JAERI-M 7155 (1977).
3. Yamano N., Koyama K. and Minami K.: "Development of Integrated Shielding Analysis Code System RADHEAT-V4", Proc. 6th Int. Conf. on Radiation Shielding, May 16-20, 1983, Vol. 1, p. 331 (1983).
4. Ozer O.: "Program RESEND", BNL-17134 (1972).
5. Garber D., Dunford C. and Pearlstein S.: "ENDF-102 DATA FORMATS AND PROCEDURES FOR THE EVALUATED NUCLEAR DATA FILE, ENDF", BNL-NCS-50496 (1975).
6. Yamano N.: "JSD1000: Multi-Group Cross section Sets for Shielding Materials", JAERI-M 84-038 (1984).
7. Sasaki T. and Yamano N.: "VISUAL: A Software Package for Plotting Data in the RADHEAT-V4 Code System", JAERI-M 84-064 (1984).

#### Acknowledgment

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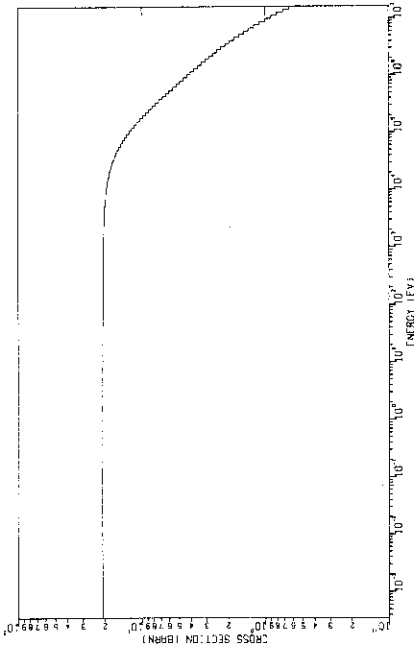
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1. Koyama K., Okumura Y., Furuta K. and Miyasaka S.: "Multi-Group Cross Section Sets for Shield Materials -100 neutron groups and 20 gamma-ray groups in  $P_5$  approximation-", JAERI-M 6928 (1977).
2. Koyama K., Minami K., Tajiri Y. and Miyasaka S.: "RADHEAT-V3, A Code System for Generating Coupled Neutron and Gamma-Ray Group Constants and Analyzing Radiation Transport", JAERI-M 7155 (1977).
3. Yamano N., Koyama K. and Minami K.: "Development of Integrated Shielding Analysis Code System RADHEAT-V4", Proc. 6th Int. Conf. on Radiation Shielding, May 16-20, 1983, Vol. 1, p. 331 (1983).
4. Ozer O.: "Program RESEND", BNL-17134 (1972).
5. Garber D., Dunford C. and Pearlstein S.: "ENDF-102 DATA FORMATS AND PROCEDURES FOR THE EVALUATED NUCLEAR DATA FILE, ENDF", BNL-NCS-50496 (1975).
6. Yamano N.: "JSD1000: Multi-Group Cross section Sets for Shielding Materials", JAERI-M 84-038 (1984).
7. Sasaki T. and Yamano N.: "VISUAL: A Software Package for Plotting Data in the RADHEAT-V4 Code System", JAERI-M 84-064 (1984).

1269 H-1 FROM ENDF/B-VI (300K)

TOTAL

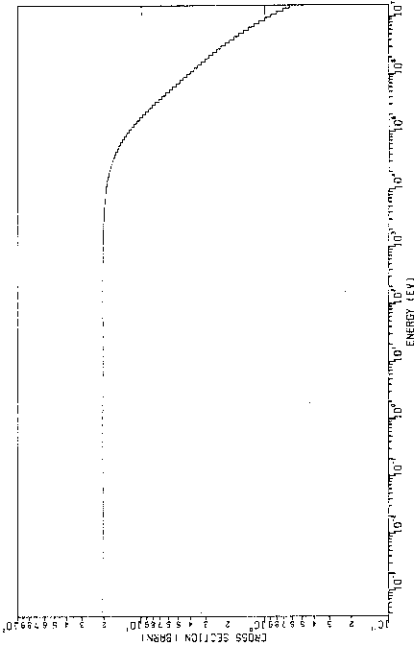
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SIG0 = 1.00000000  
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ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1269 H-1 FROM ENDF/B-VI (300K)

ELAS

TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1269 H-1 FROM ENDF/B-VI (300K)

(N+O)

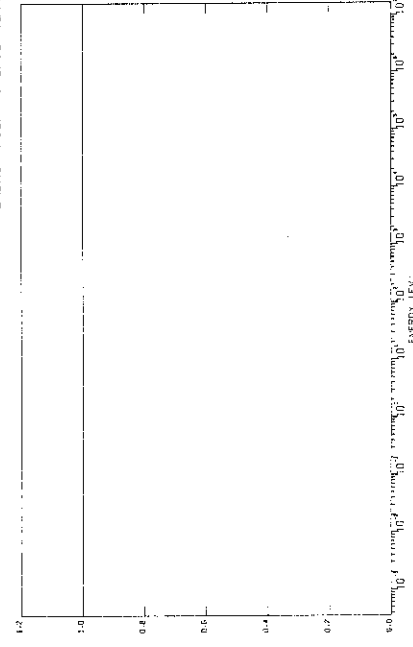
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1269 H-1 FROM ENDF/B-VI (300K)

TOTAL

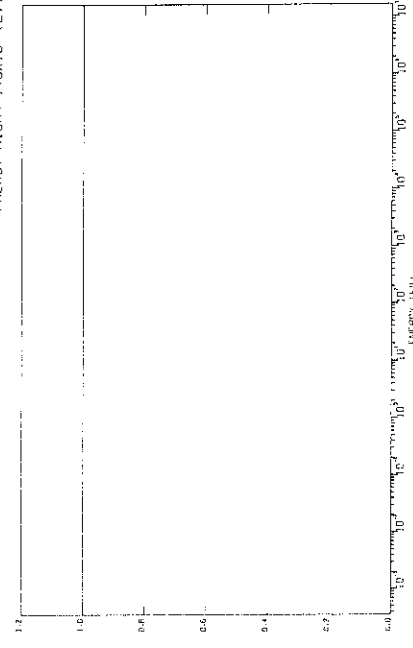
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1269 H-1 FROM ENDF/B-VI (300K)

ELAS

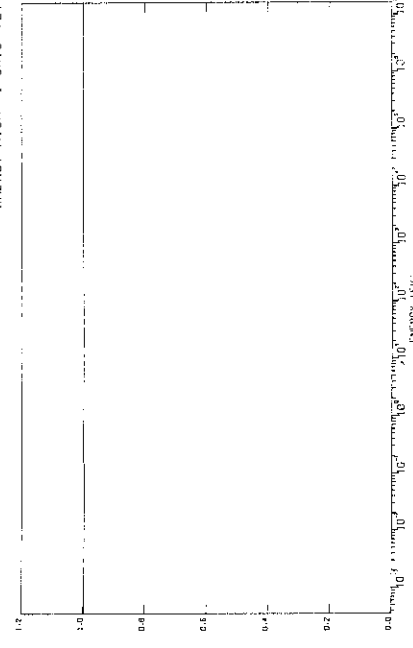
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1269 H-1 FROM ENDF/B-VI (300K)

CAPTURE

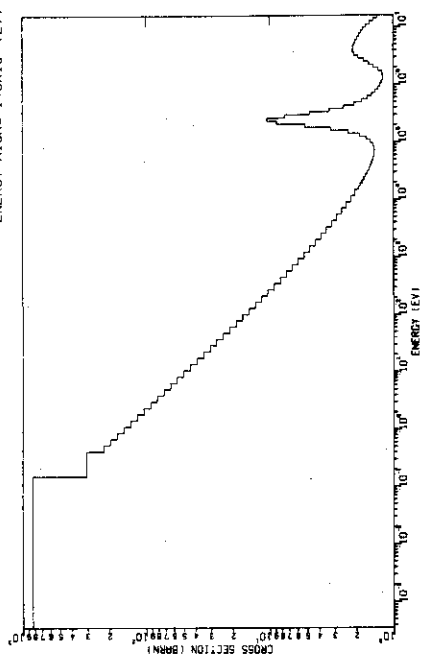
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1271 L1-6 FROM ENDF/B-IV ( 300K )

TOTAL

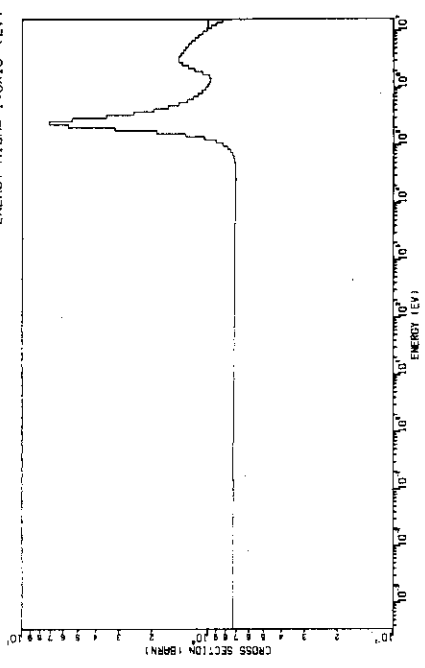
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1271 L1-6 FROM ENDF/B-IV ( 300K )

ELAS

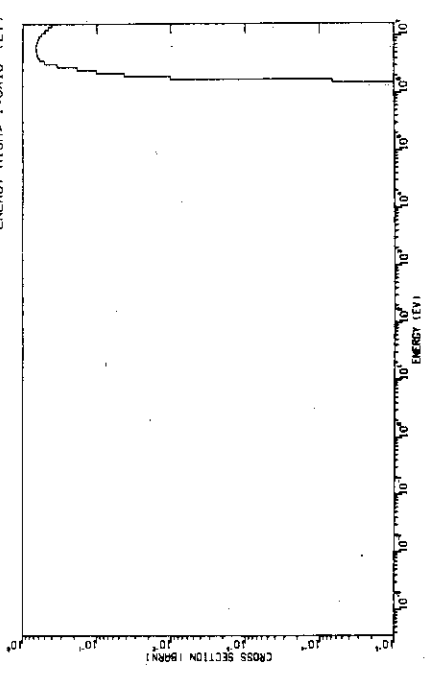
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1271 L1-6 FROM ENDF/B-IV ( 300K )

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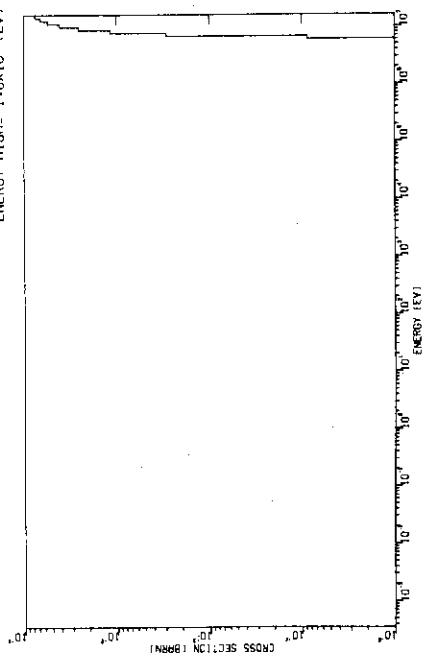
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ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1271 L1-6 FROM ENDF/B IV ( 300K )

(N-2N)

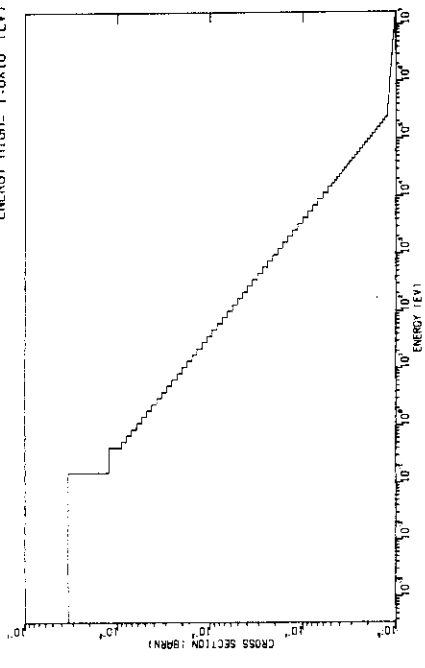
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ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1271 L1-6 FROM ENDF/B-IV ( 300K )

(N-G)

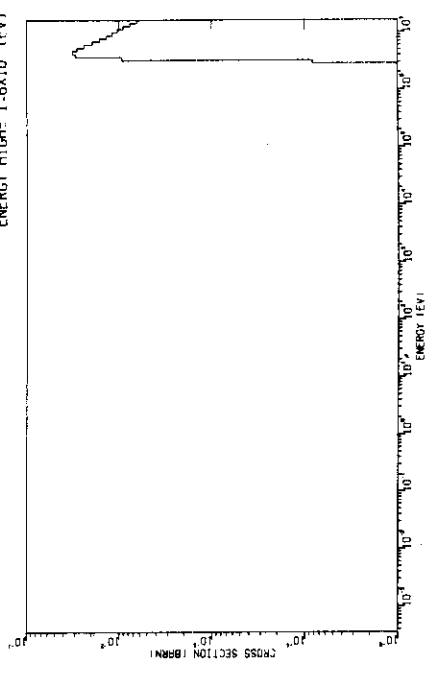
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(N-P)

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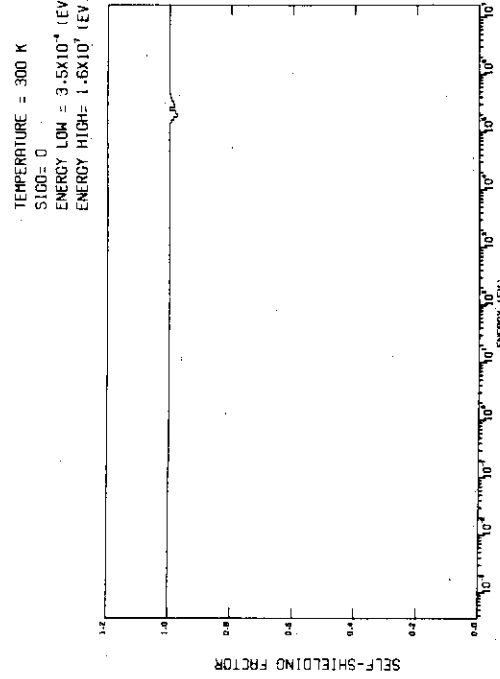
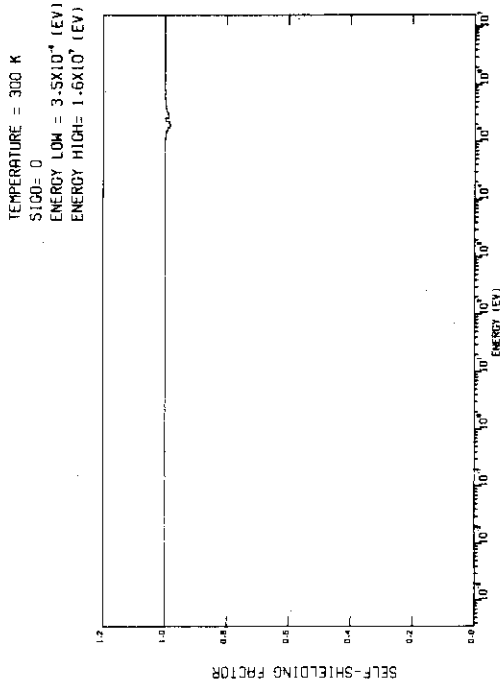
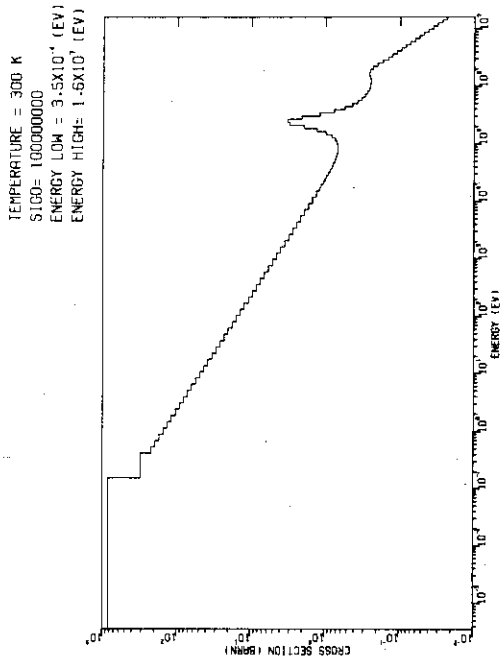
1271 LI-6 FROM ENDF/B-IV ( 300K )

1271 LI-6 FROM ENDF/B-IV ( 300K )

ELAS

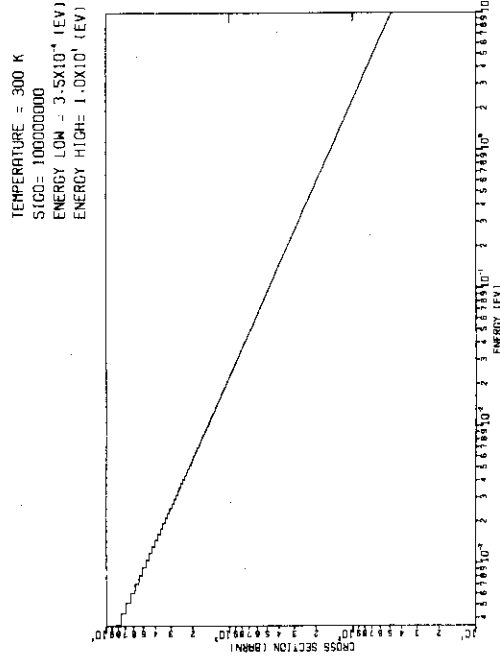
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ELAS



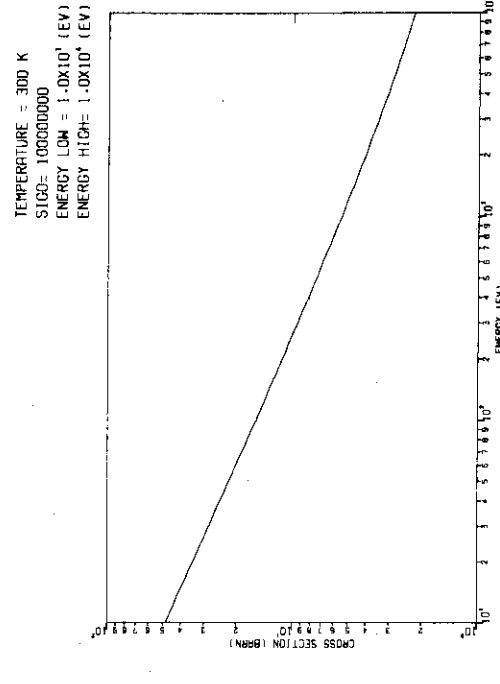
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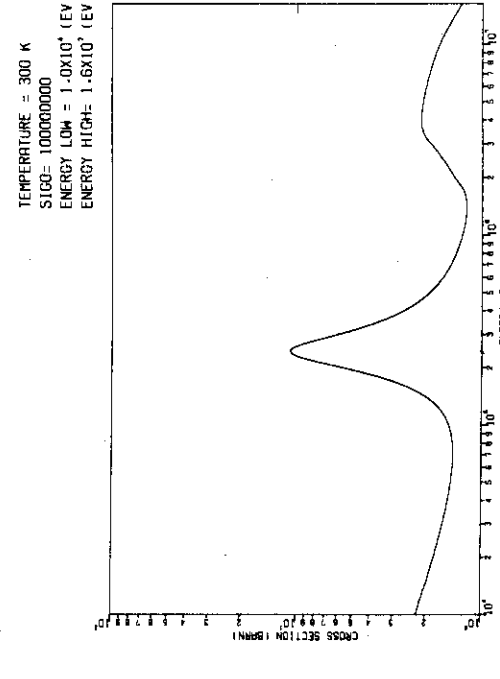
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REACTION TYPE = 1



1271 LI-6 FROM ENDF/B-IV

REACTION TYPE = 1

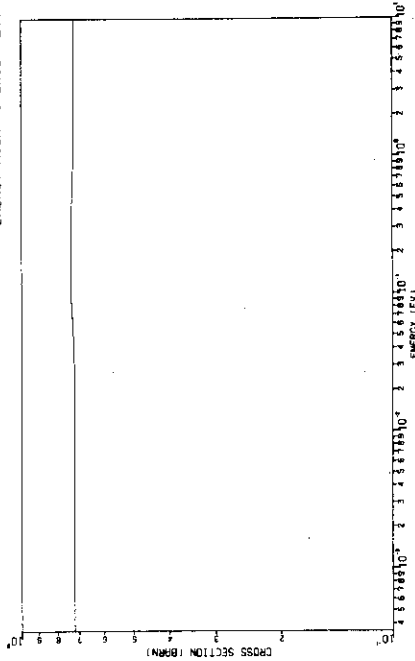




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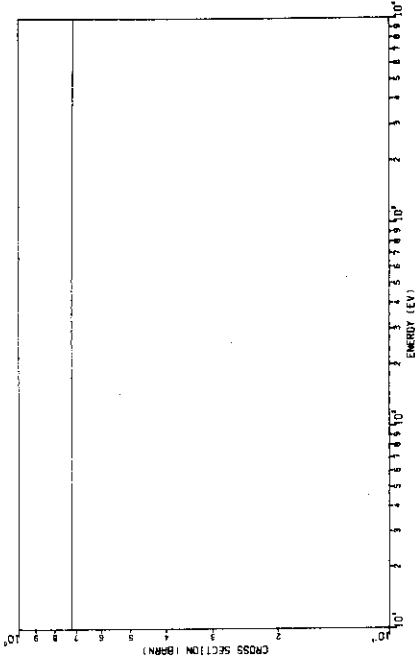
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REACTION TYPE = 2

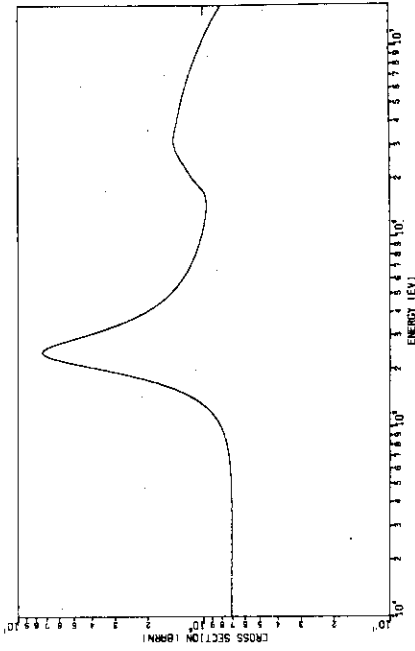
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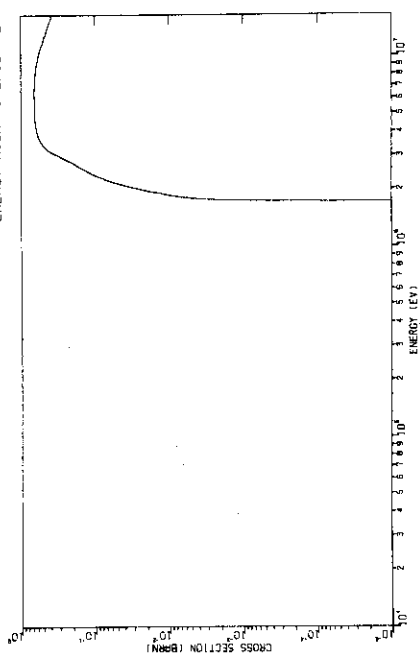
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1271 LI-6 FROM ENDF/B-IV

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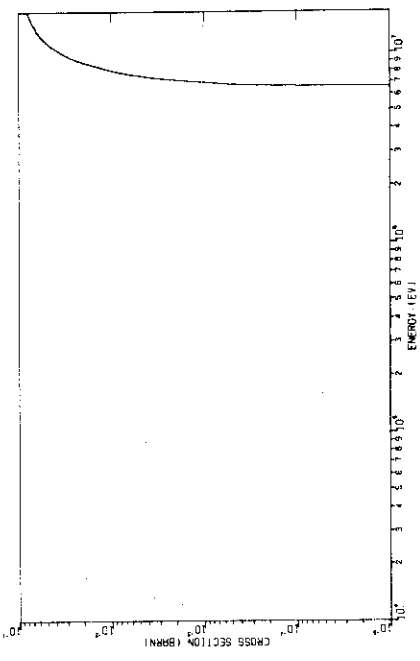
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1271 LI-6 FROM ENDF/B-IV

REACTION TYPE = 24

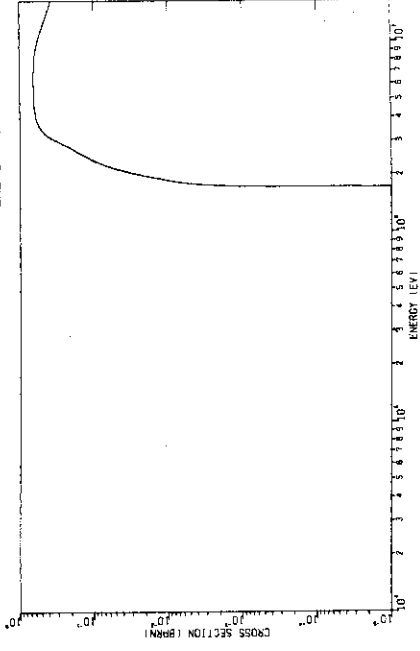
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1271 LI-6 FROM ENDF/B-IV

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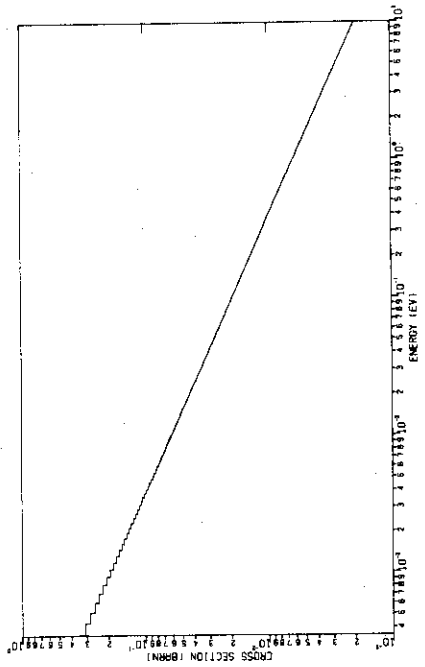
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1271 LI-6 FROM ENDF/B-IV

REACTION TYPE = 102

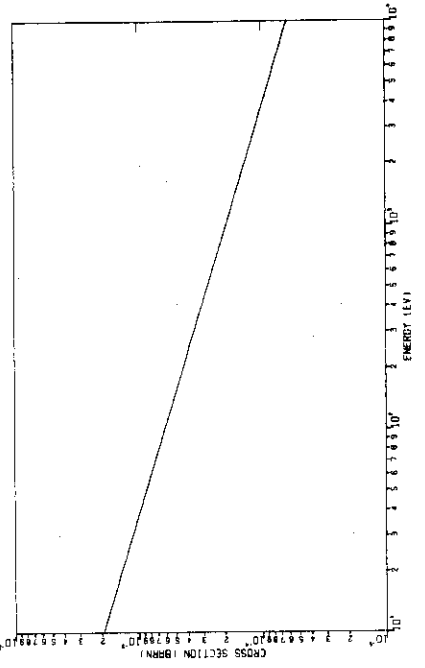
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1271 LI-6 FROM ENDF/B-IV

REACTION TYPE = 102

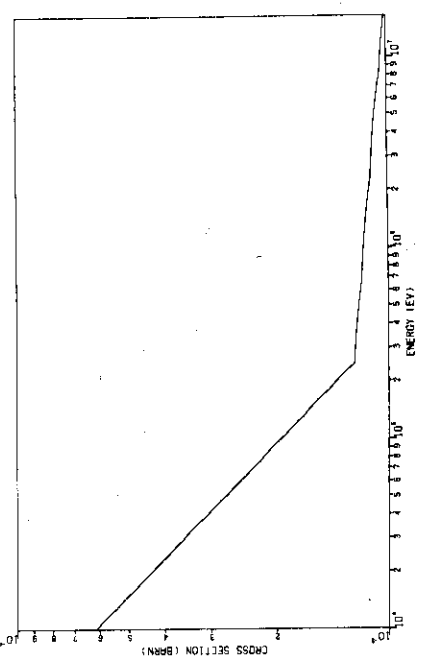
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1271 LI-6 FROM ENDF/B-IV

REACTION TYPE = 102

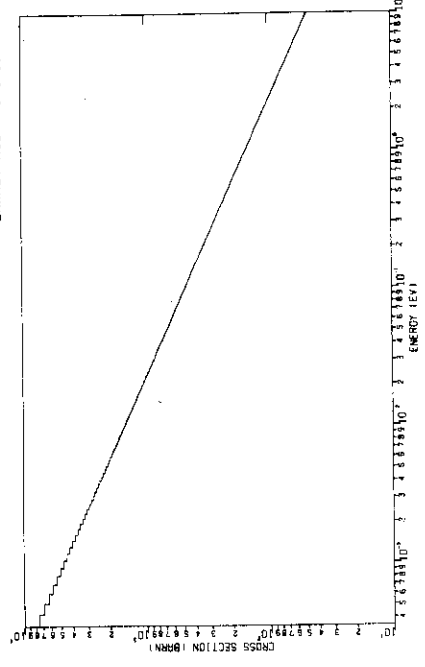
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SIGO= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1271 LI-6 FROM ENDF/B-IV

REACTION TYPE = 107

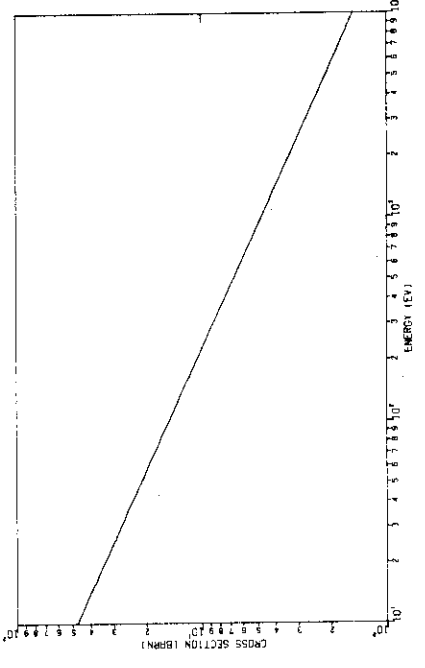
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1271 LI-6 FROM ENDF/B-IV

REACTION TYPE = 107

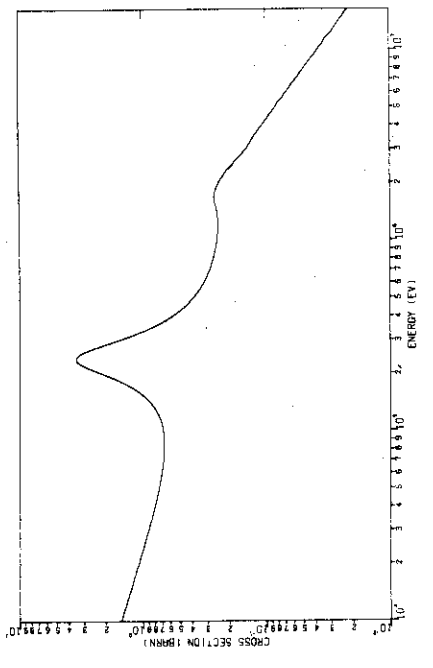
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1271 LI-6 FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



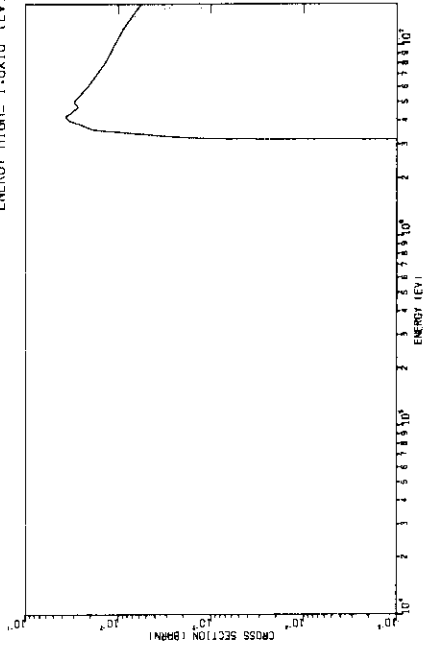
${}^6_3\text{Li}$   
1271

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1271 LI-6 FROM ENDF/B-IV

REACTION TYPE = 103

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $1.0 \times 10^6$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1272 LI-7 FROM ENDF/B-IV ( 300K )

1272 LI-7 FROM ENDF/B-IV ( 300K )

1272 LI-7 FROM ENDF/B-IV ( 300K )

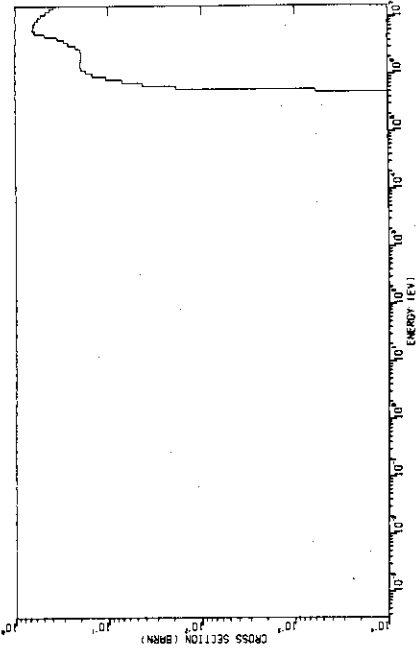
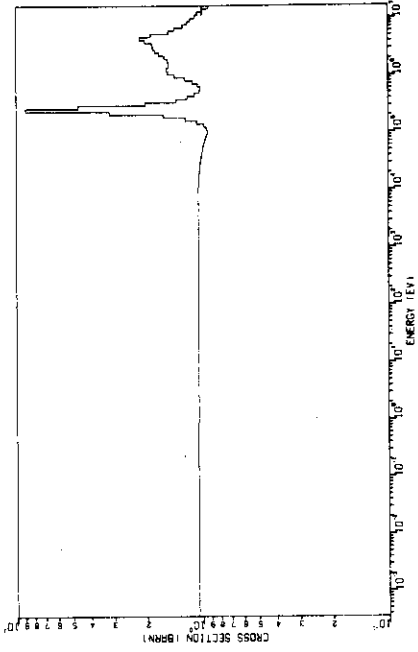
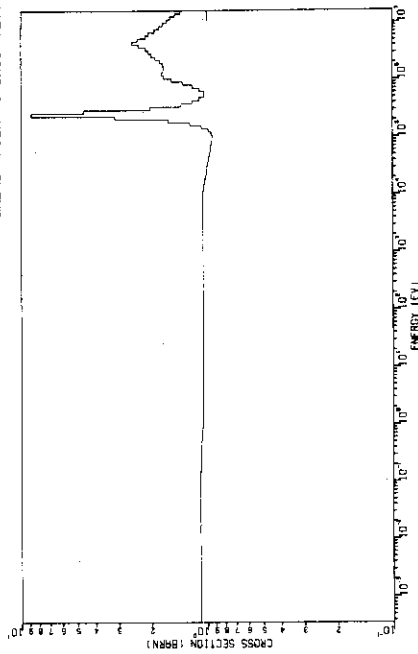
INELAS

TOTAL

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV ( 300K )

1272 LI-7 FROM ENDF/B-IV ( 300K )

1272 LI-7 FROM ENDF/B-IV ( 300K )

TOTAL

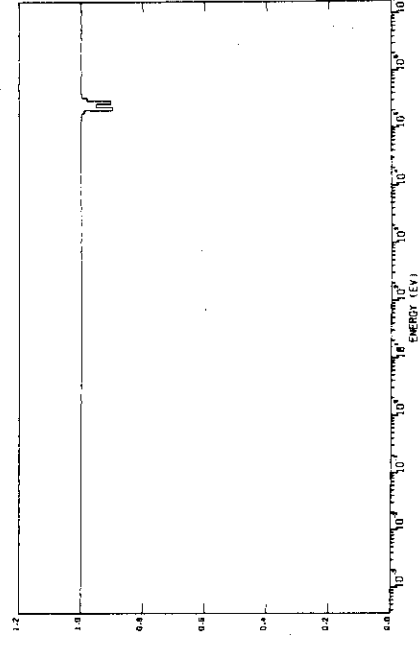
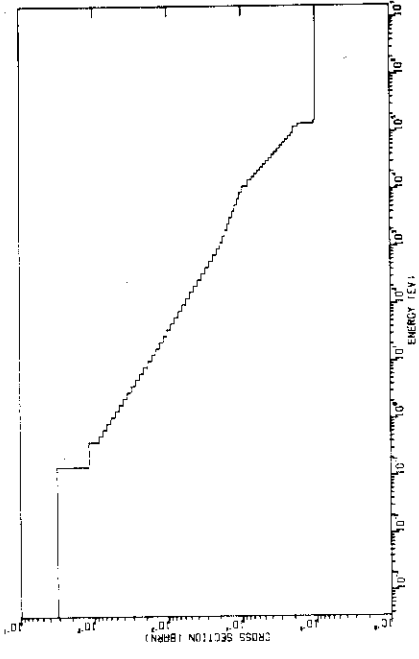
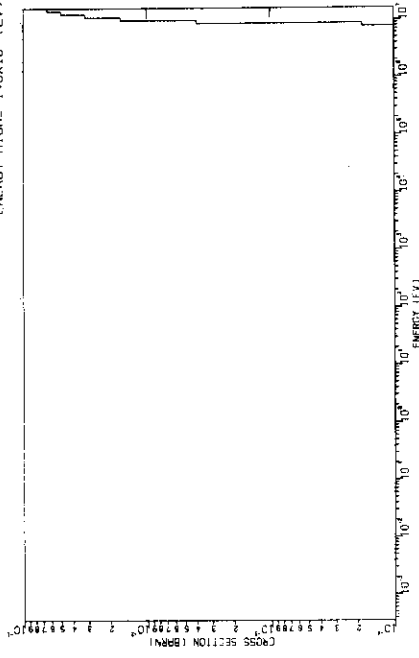
(N,Z)

(N,G)

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV ( 300K )

TOTAL

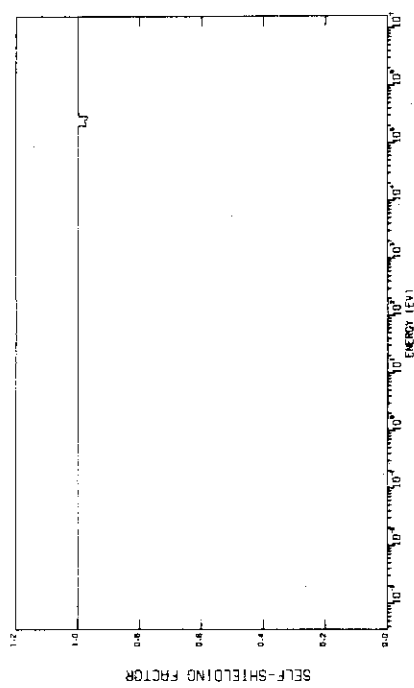
1272 LI-7 FROM ENDF/B-IV ( 300K )

ELAS

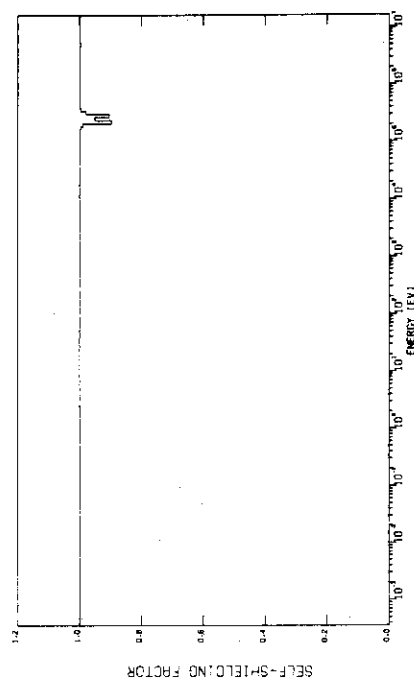
1272 LI-7 FROM ENDF/B-IV ( 300K )

ELAS

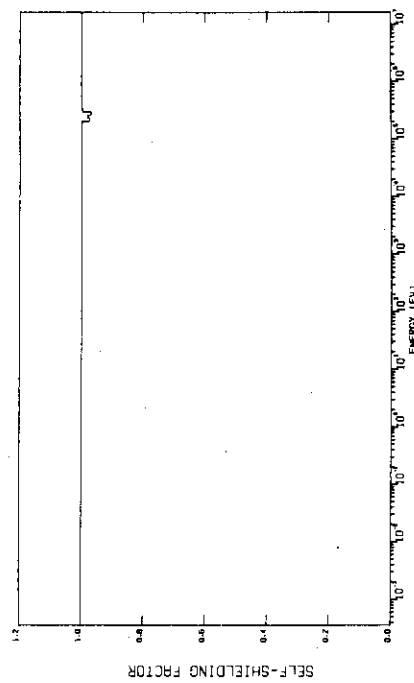
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



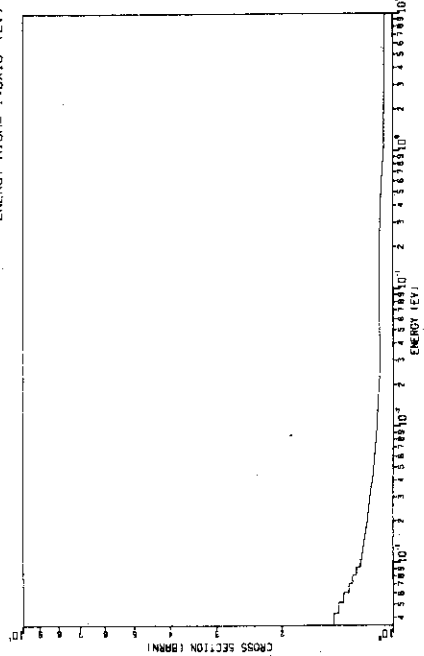
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 1

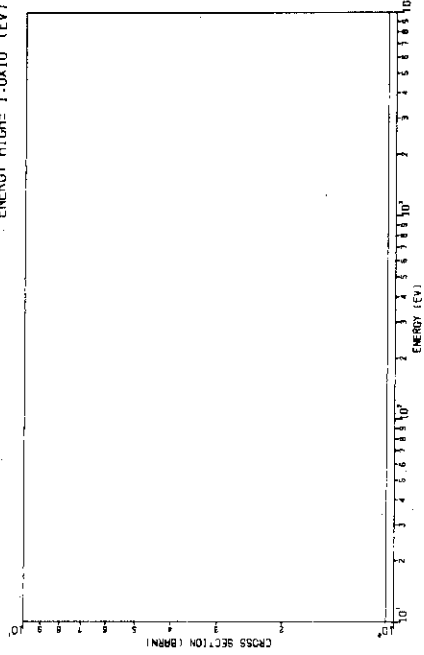
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 1

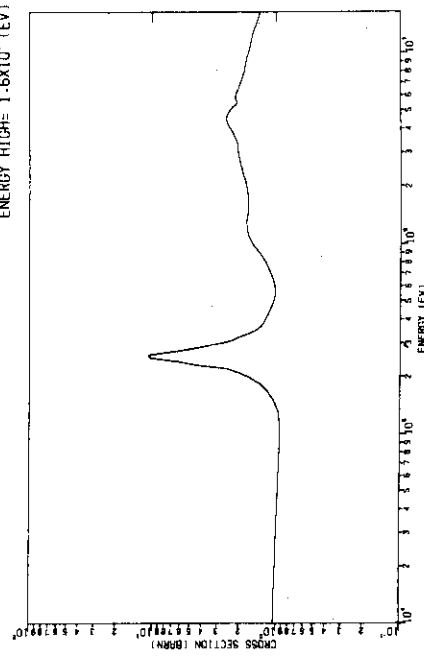
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 1

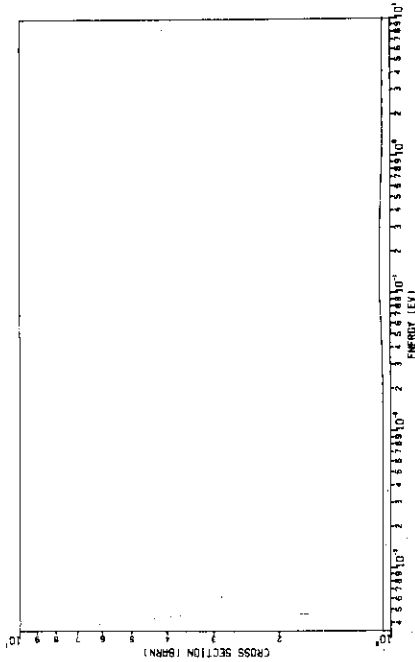
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 2

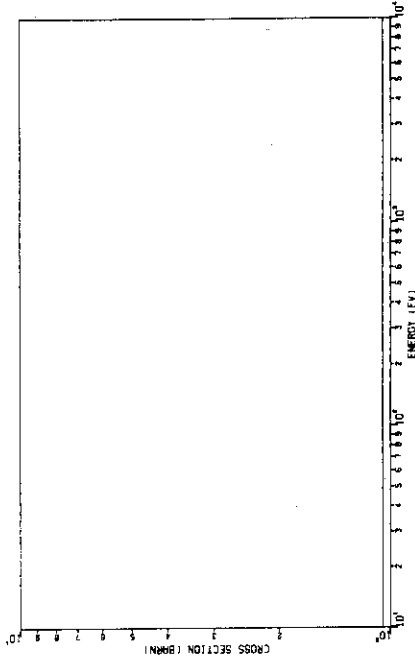
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 2

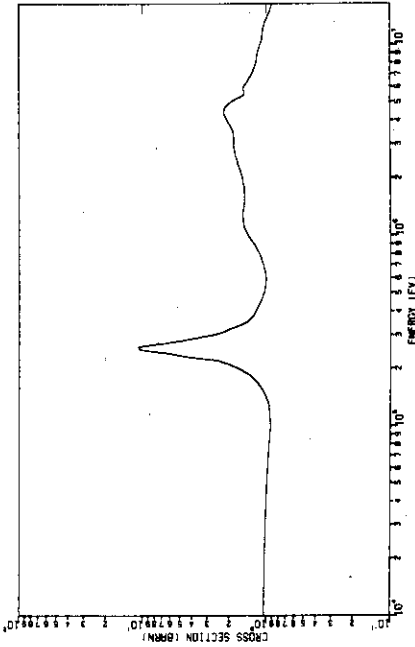
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 2

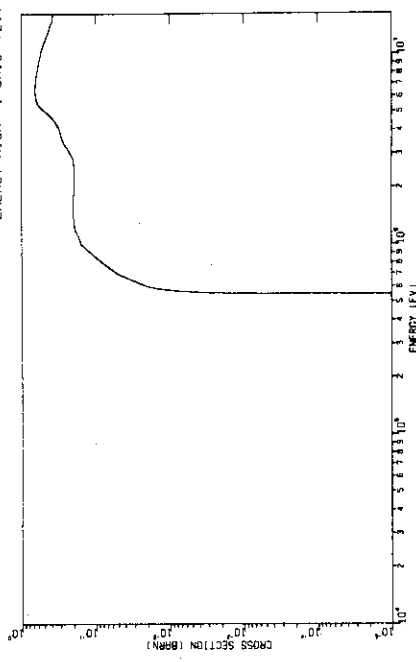
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 4

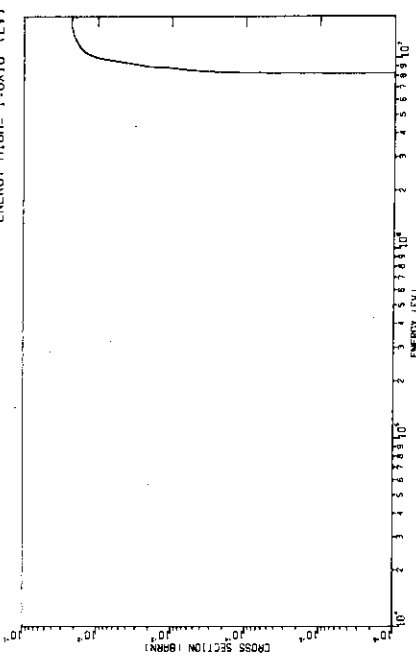
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 16

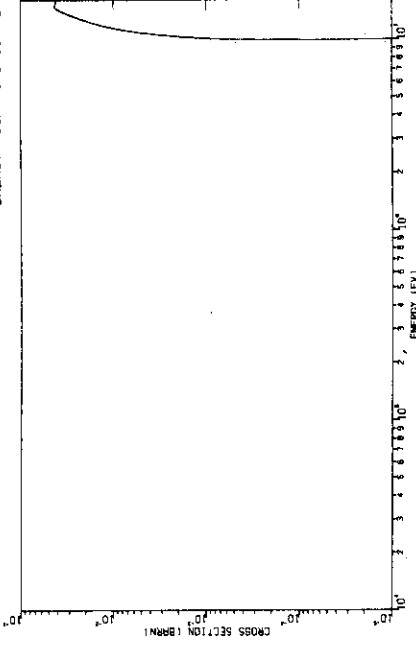
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 24

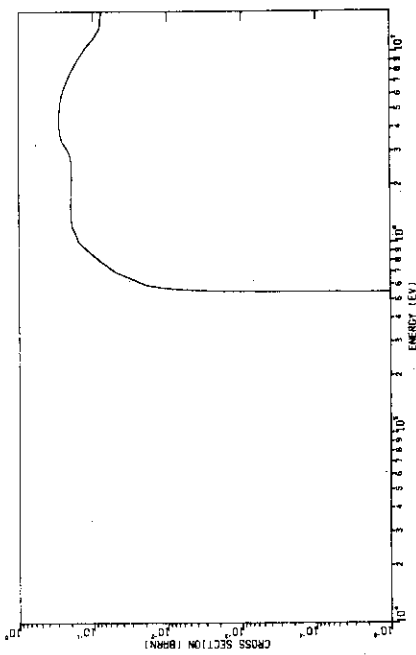
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 51

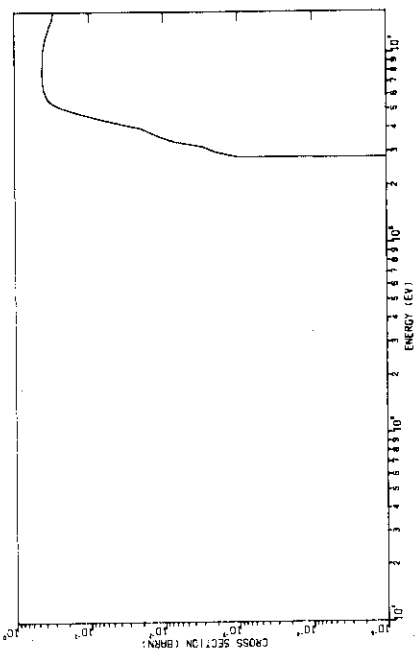
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 91

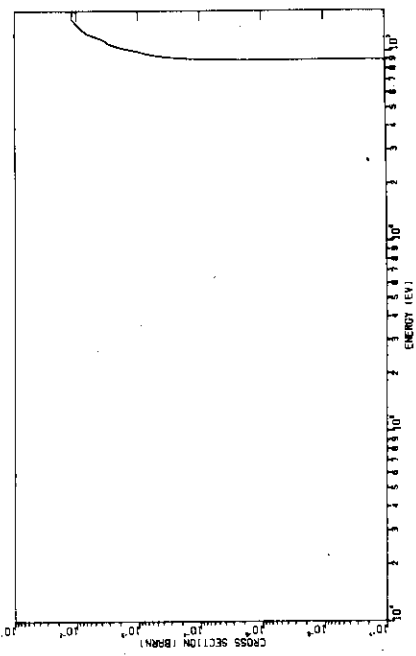
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 104

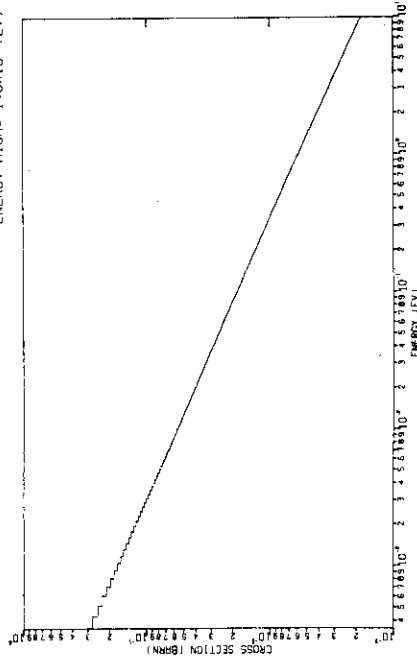
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 102

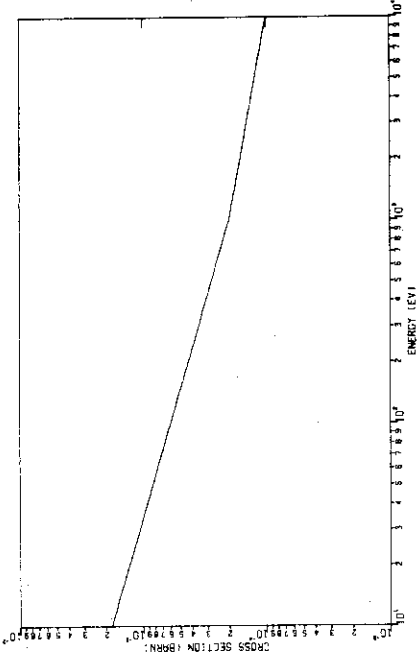
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 102

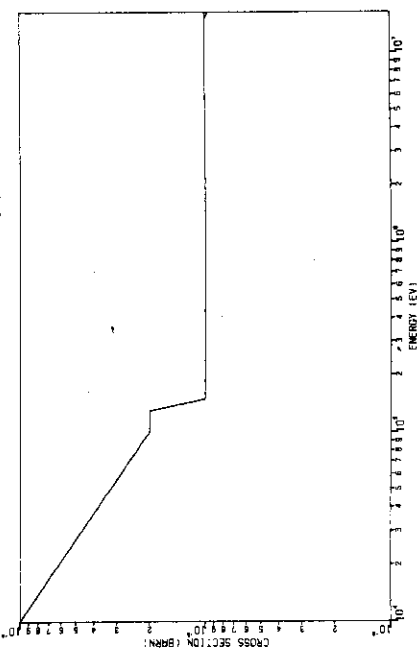
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1272 LI-7 FROM ENDF/B-IV

REACTION TYPE = 102

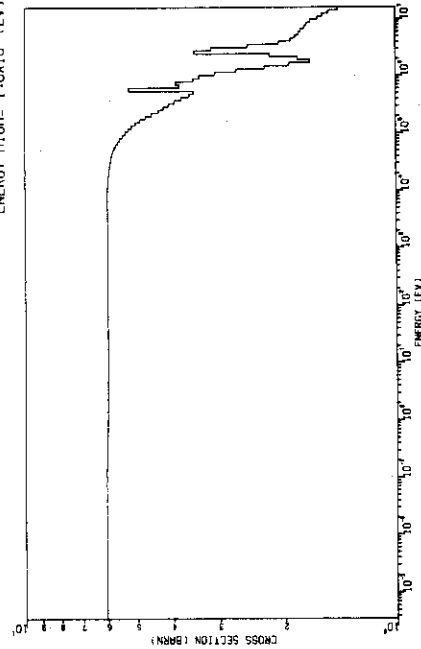
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV ( 300K )

TOTAL

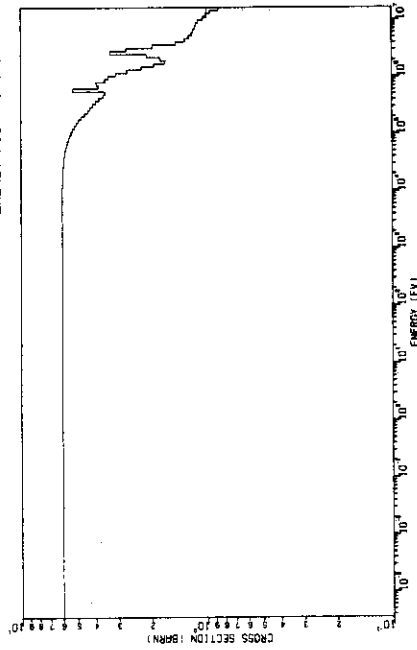
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV ( 300K )

ELAS

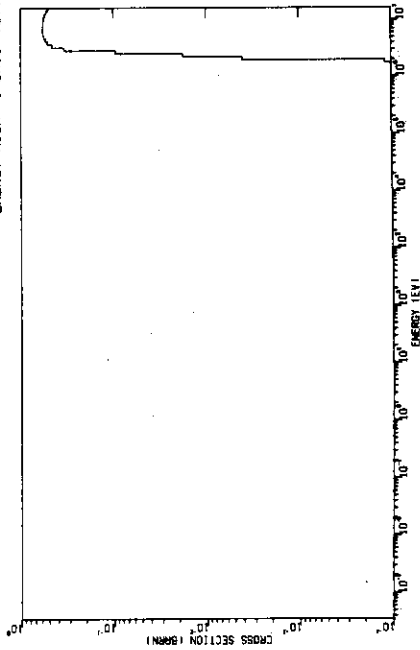
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV ( 300K )

(N,2N)

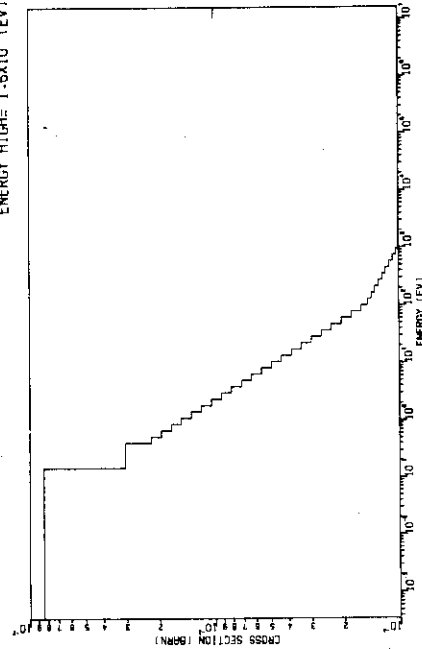
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV ( 300K )

(N,G)

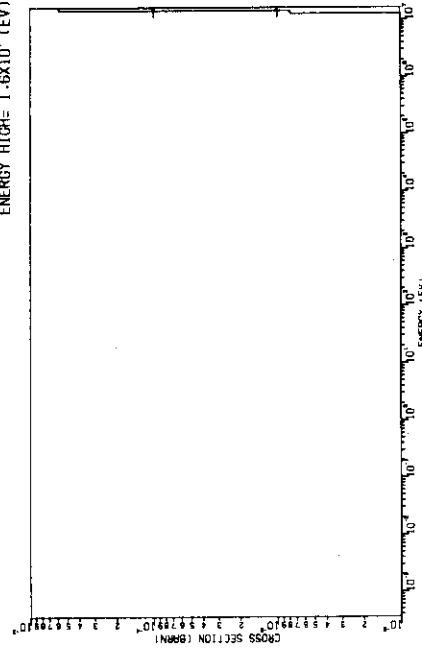
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV ( 300K )

(N,P)

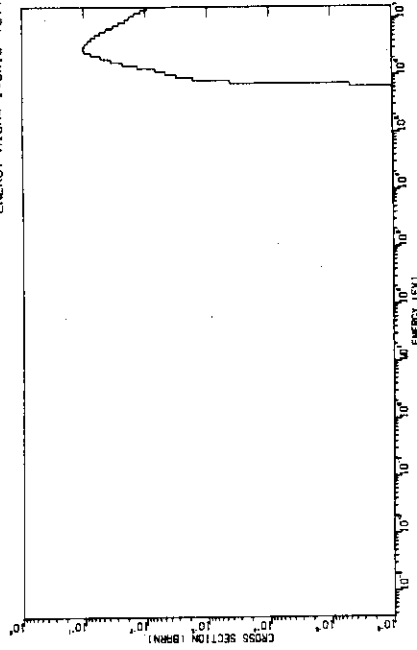
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV ( 300K )

(N,R)

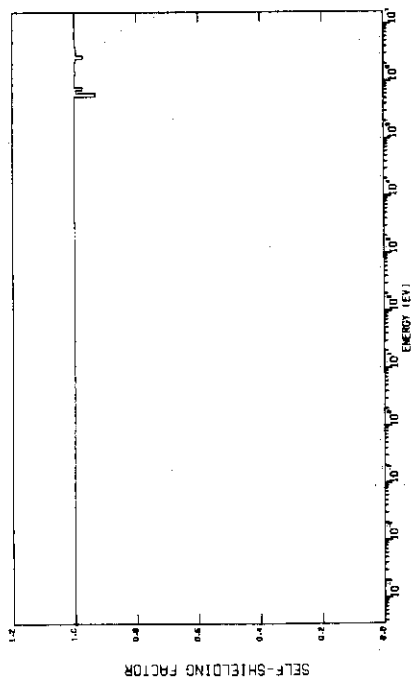
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)





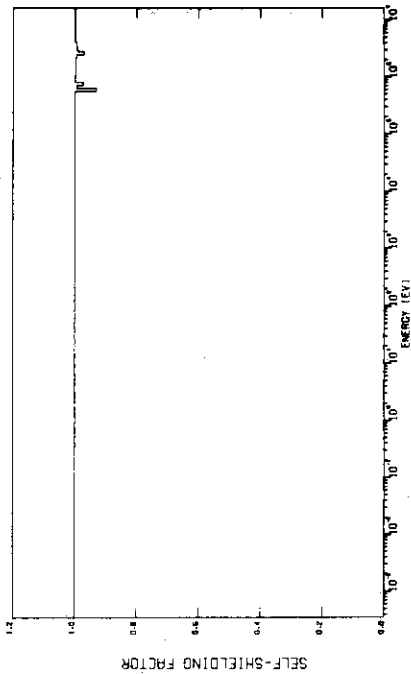
1289 BE-9 FROM ENDF/B-IV ( 300K ) TOTAL

TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV ( 300K ) ELAS

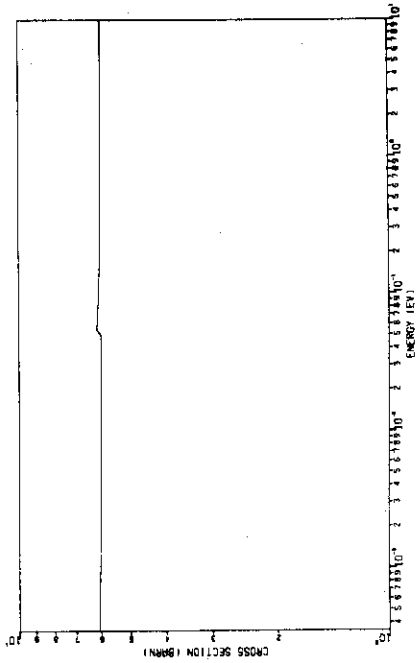
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 1

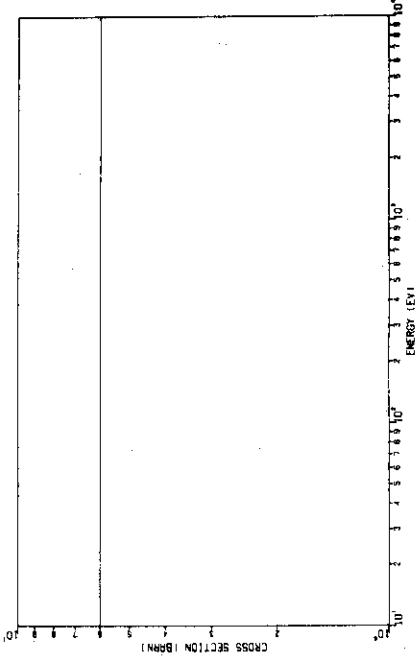
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 1

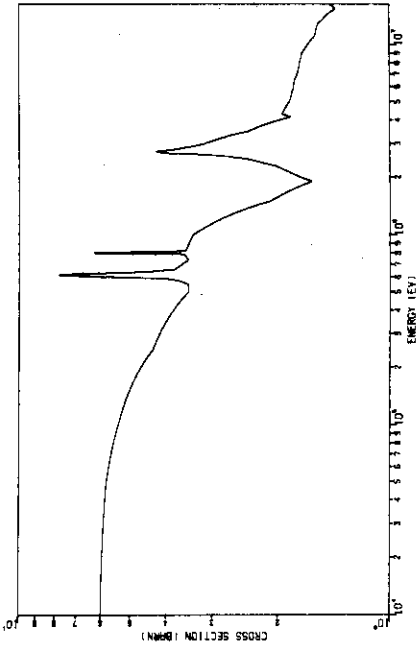
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 1

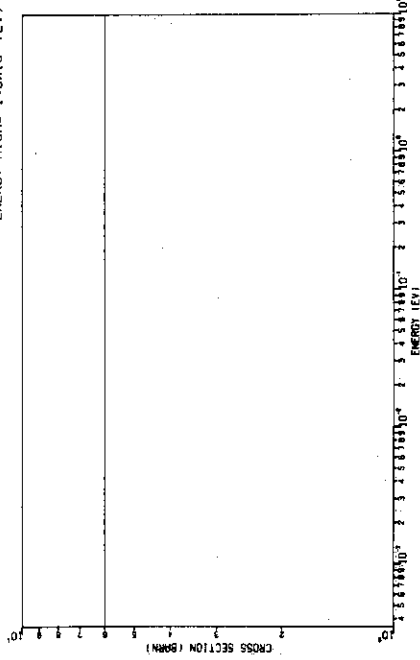
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 2

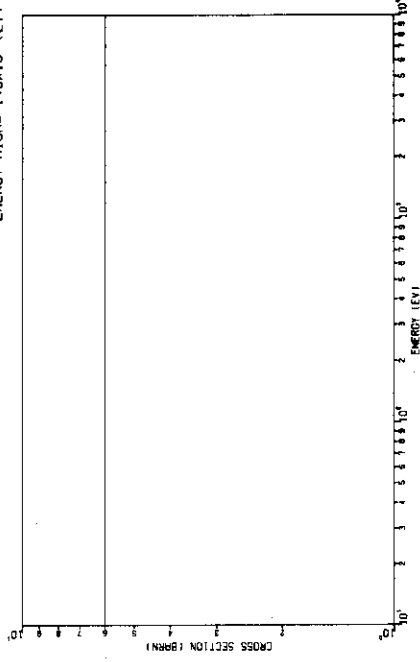
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 2

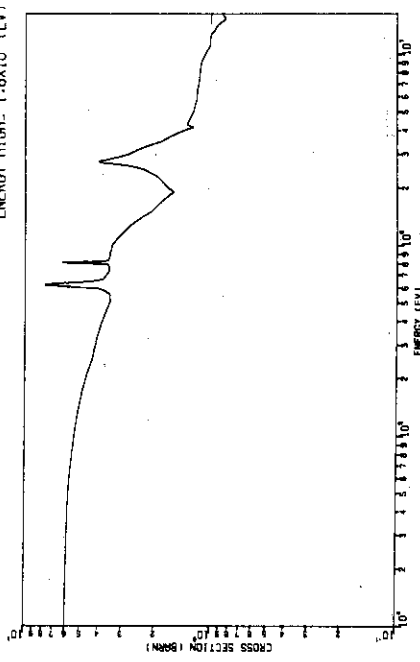
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 2

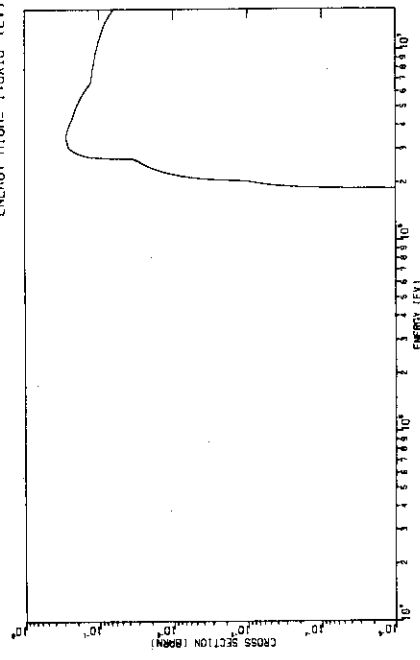
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 6

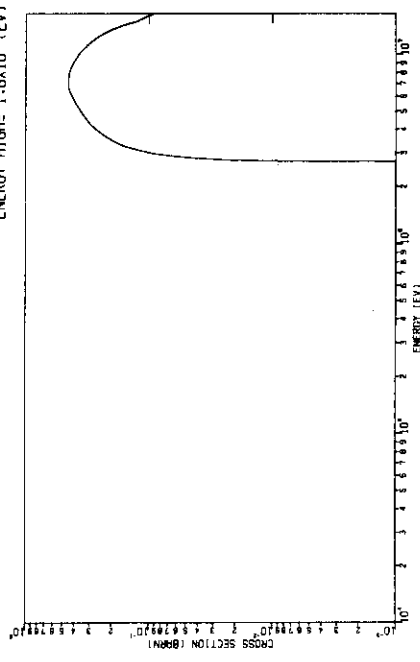
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 7

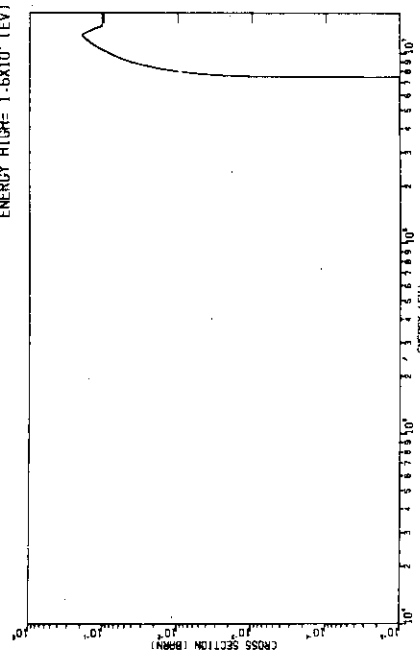
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 8

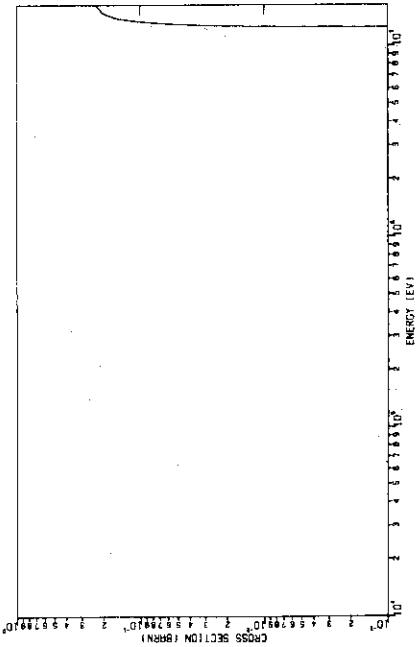
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 9

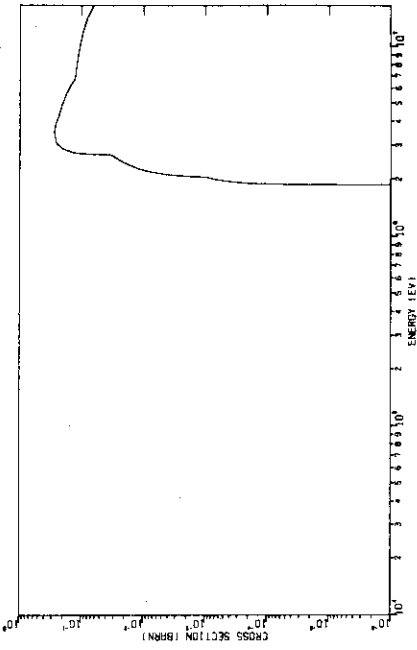
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 46

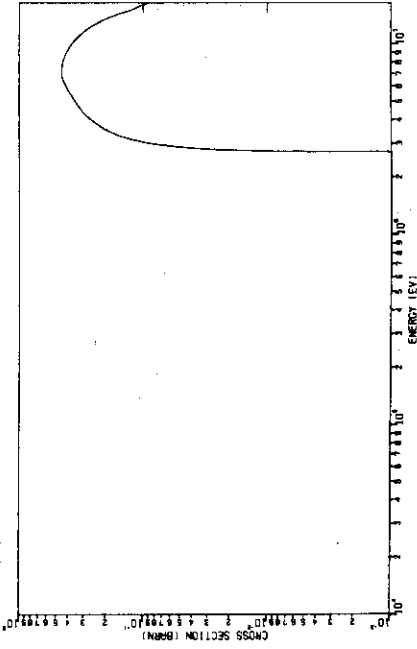
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 47

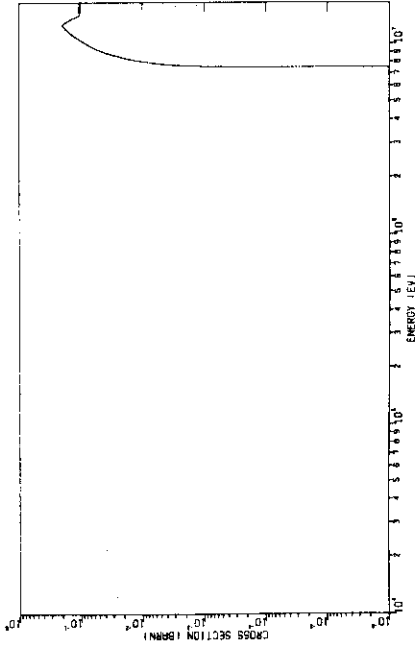
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 48

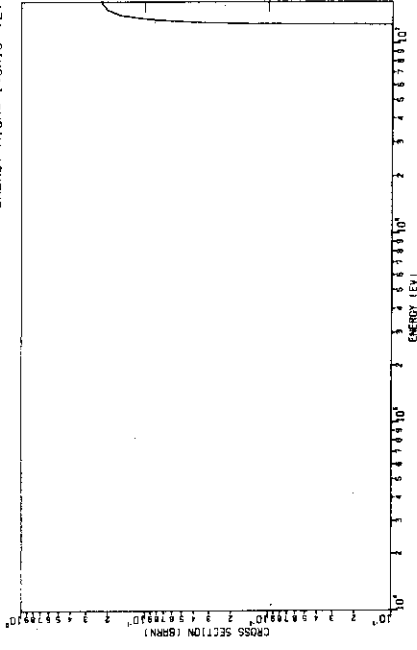
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 49

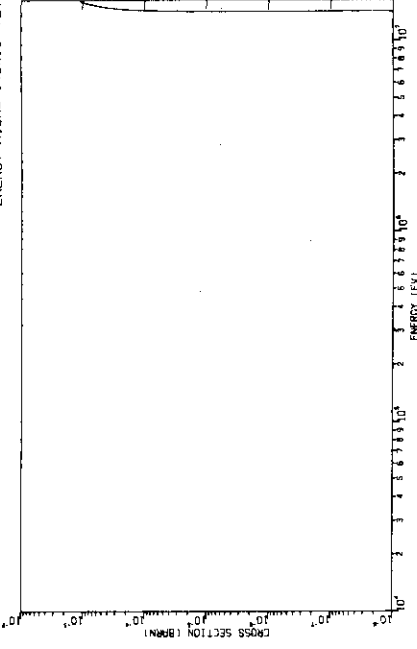
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 103

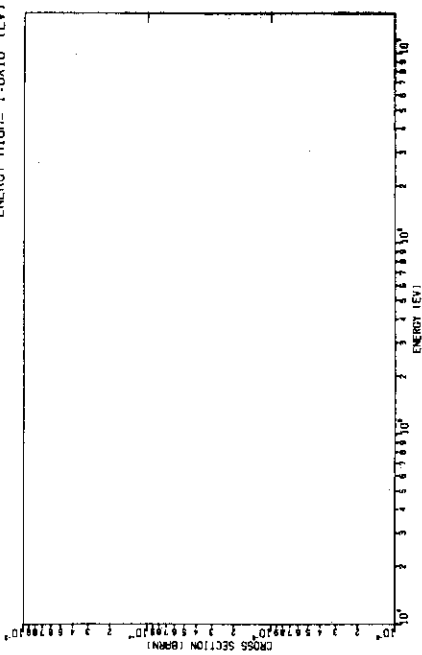
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 104

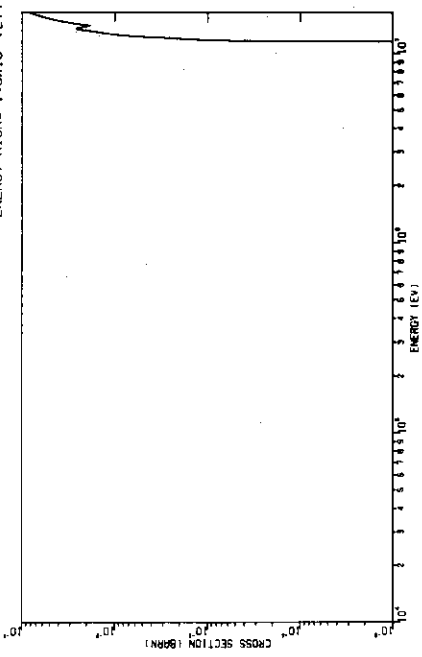
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 105

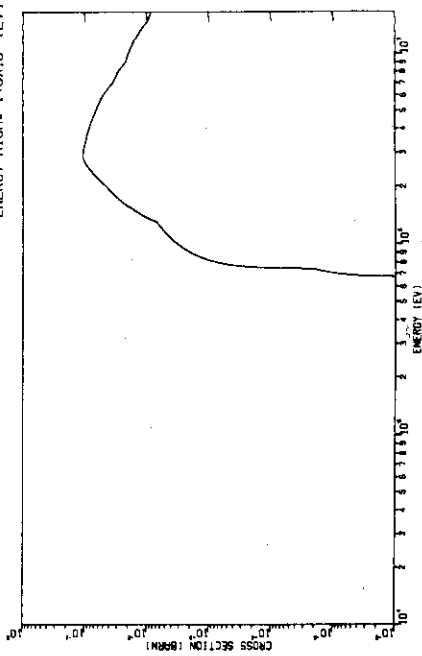
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 107

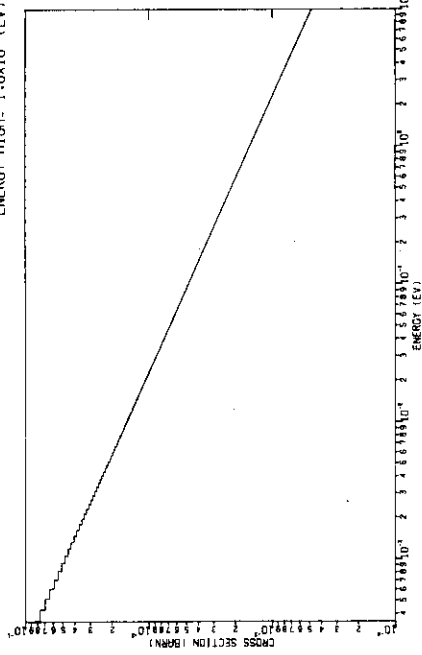
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 102

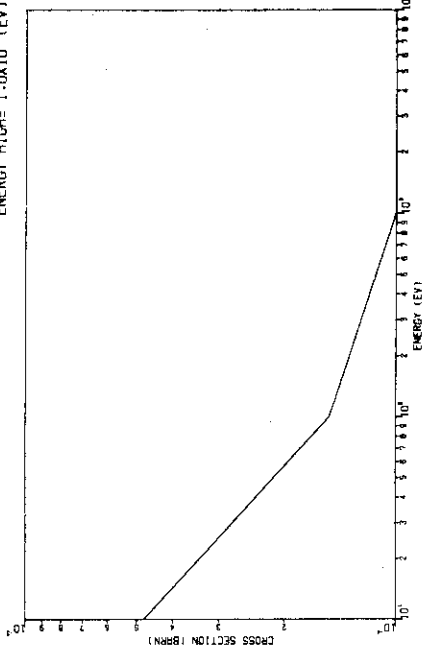
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 102

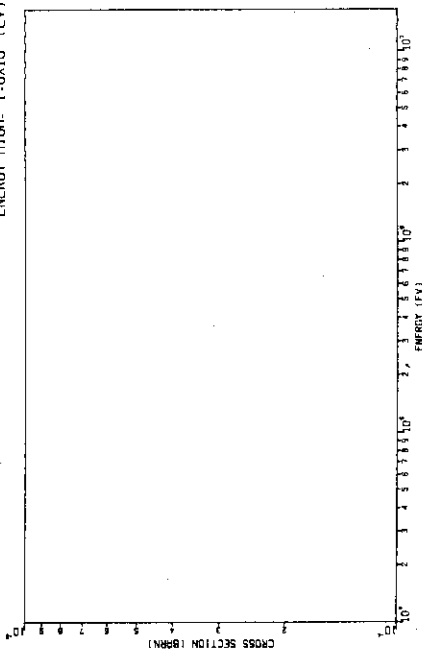
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1289 BE-9 FROM ENDF/B-IV

REACTION TYPE = 102

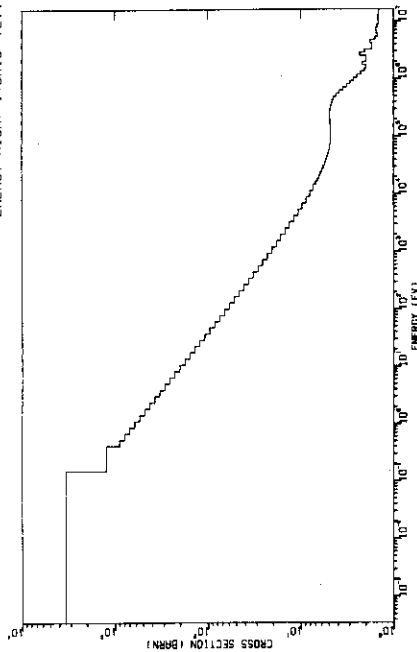
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV ( 300K )

TOTAL

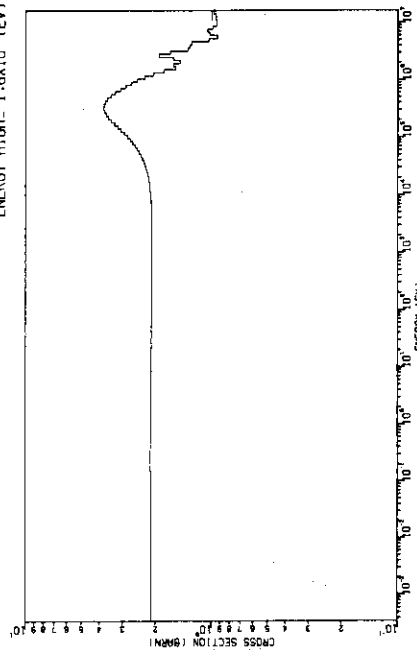
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV ( 300K )

ELAS

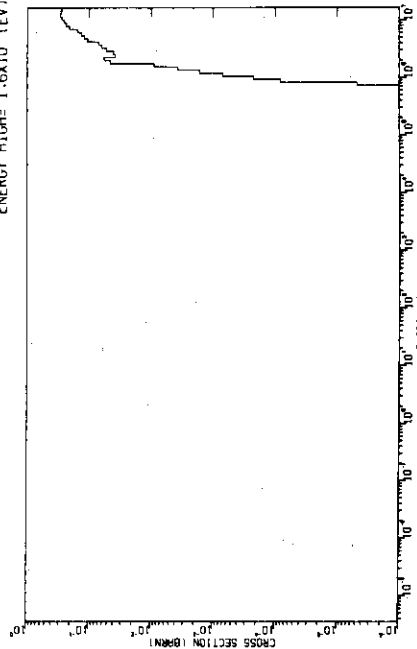
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV ( 300K )

INELAS

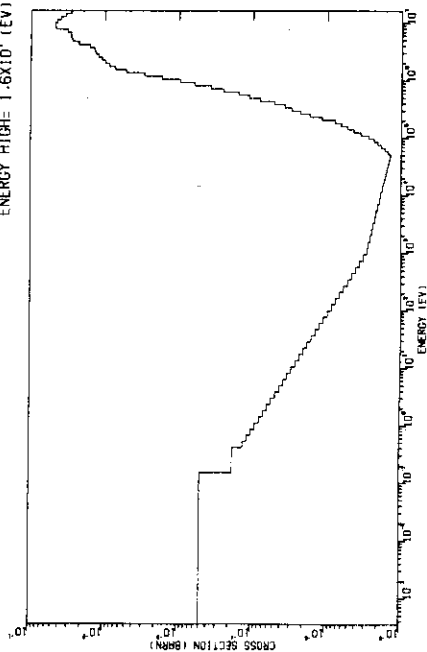
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV ( 300K )

(N,P)

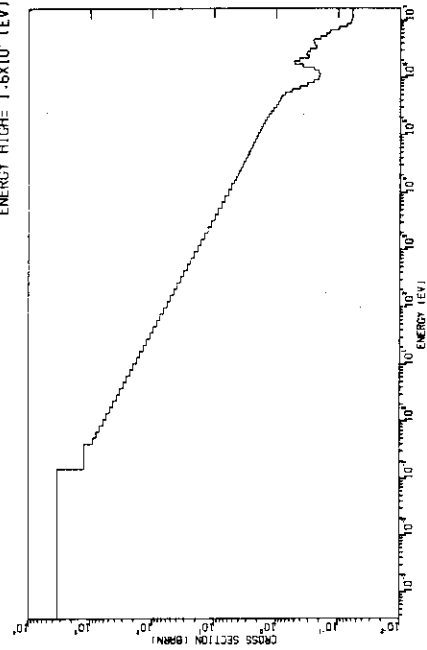
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV ( 300K )

(N,A)

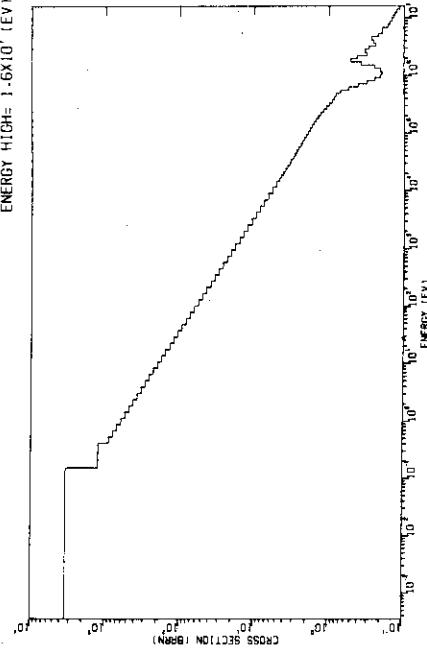
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV ( 300K )

CAPTURE

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV ( 300K )

TOTAL

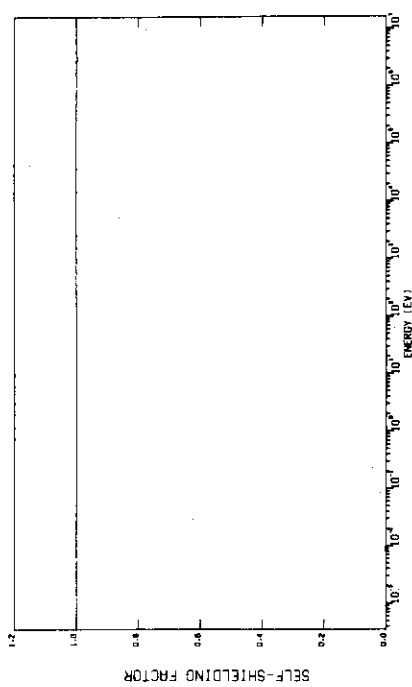
1273 B-10 FROM ENDF/B-IV ( 300K )

ELAS

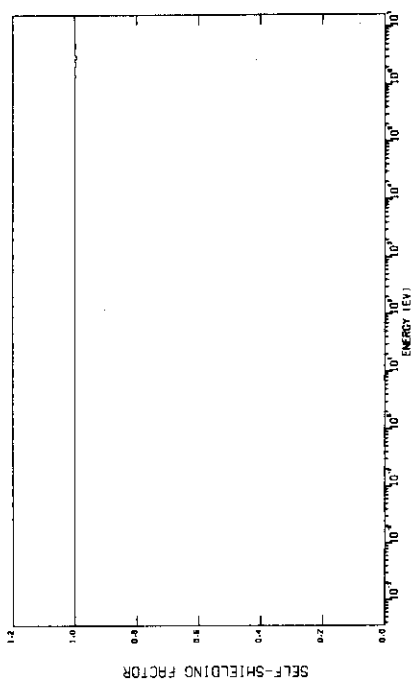
1273 B-10 FROM ENDF/B-IV ( 300K )

CAPTURE

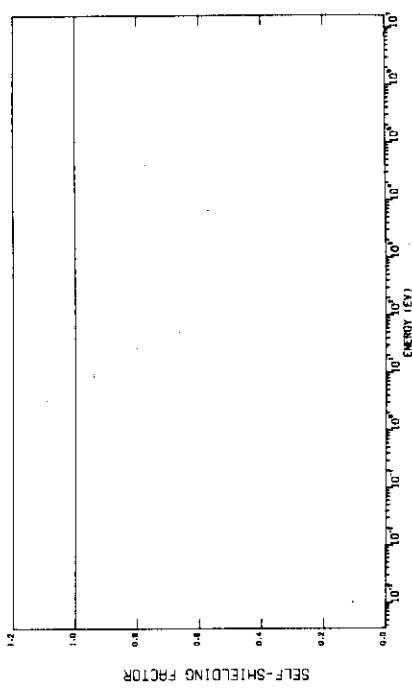
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



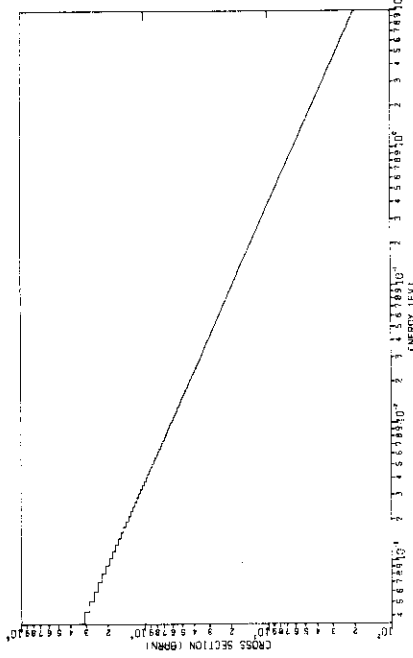
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 1

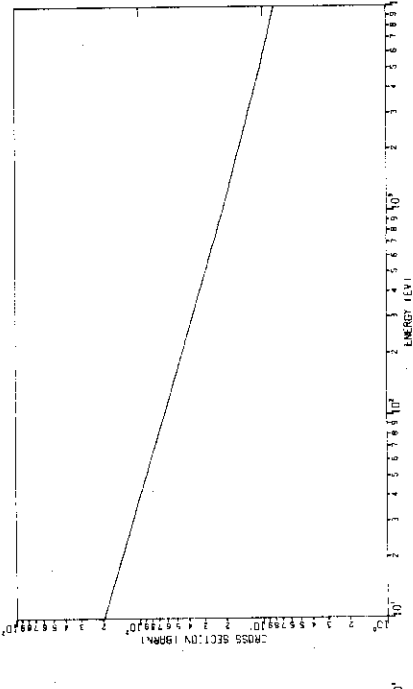
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 1

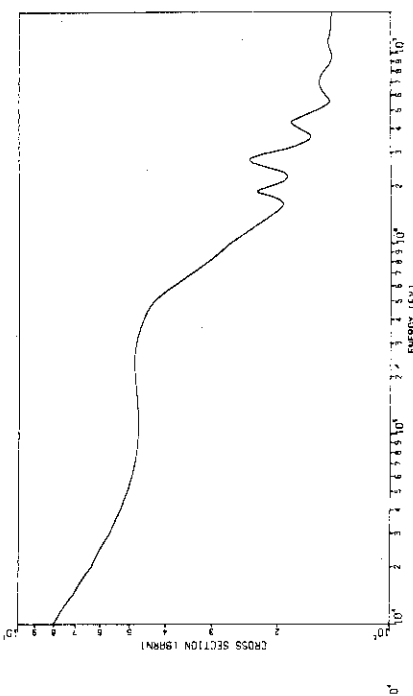
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 1

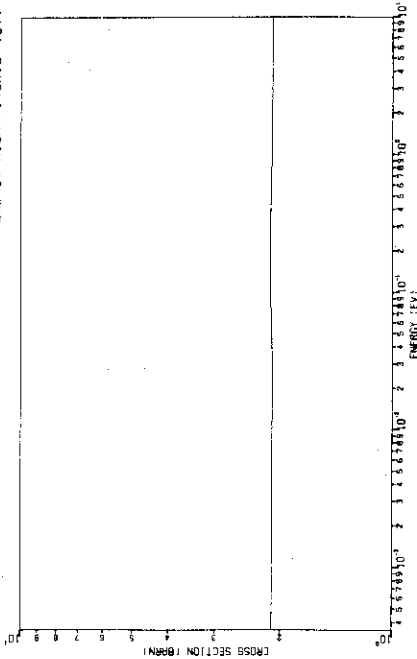
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 2

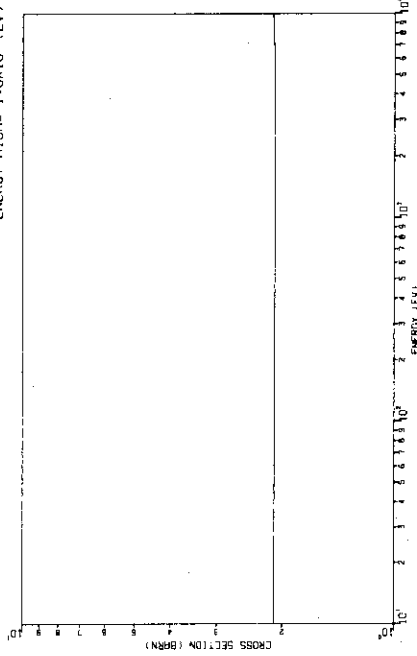
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 2

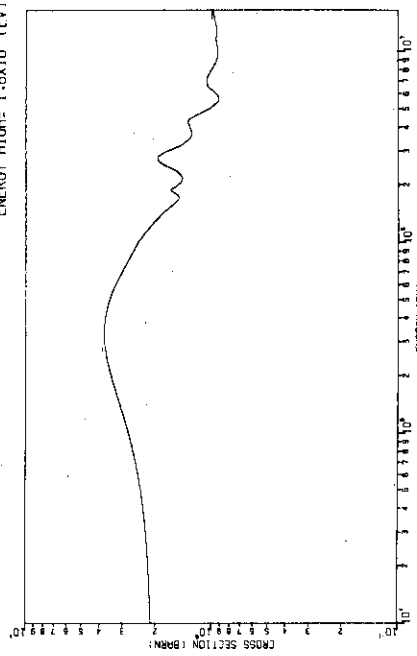
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 2

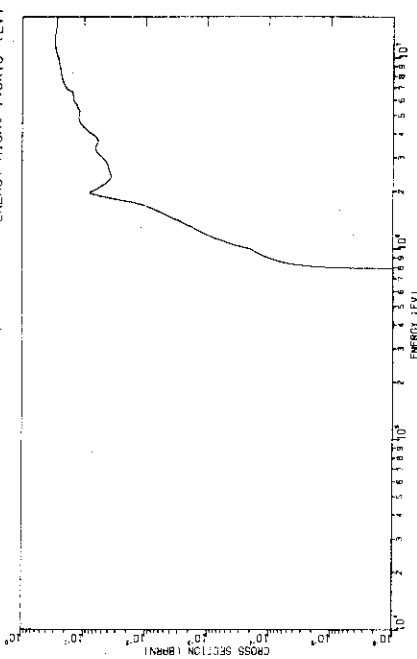
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 4

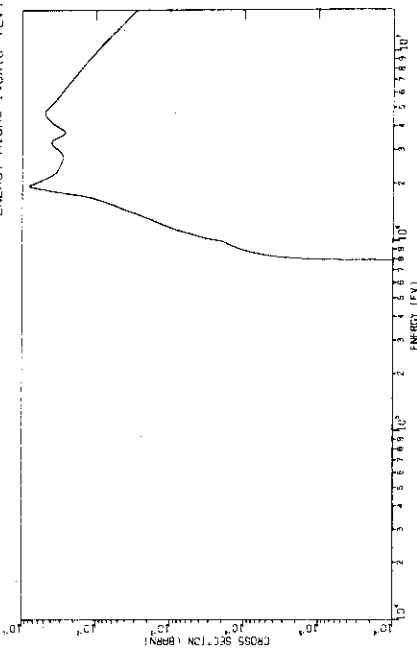
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 51

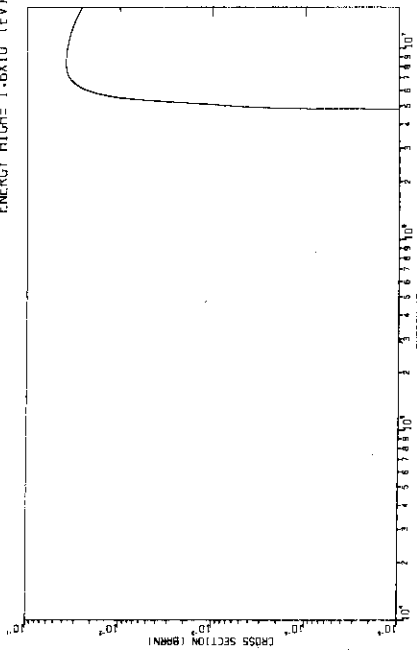
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 104

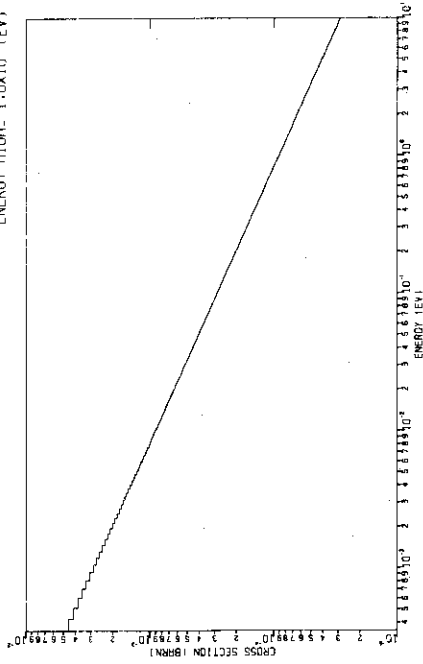
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 103

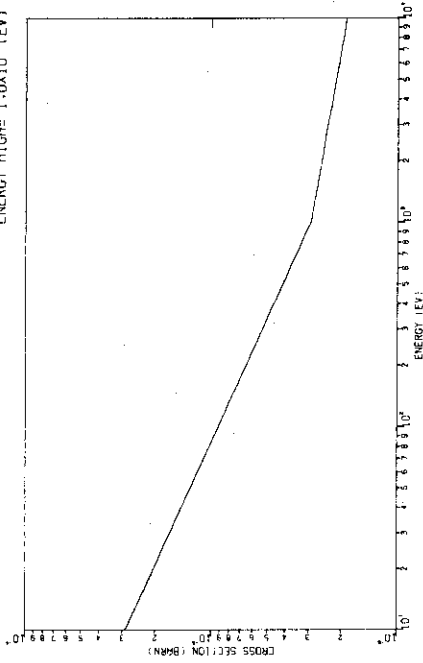
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 103

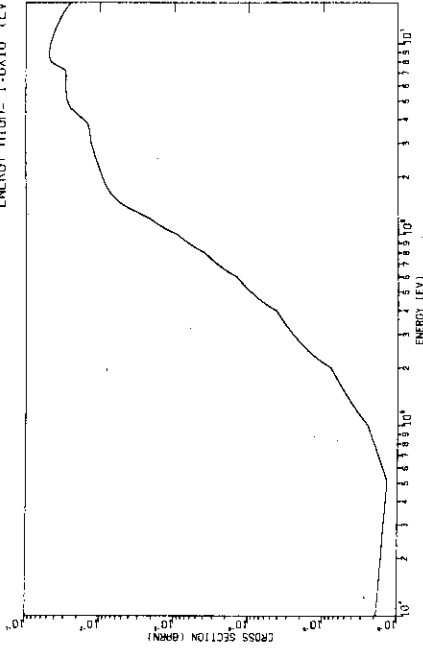
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 103

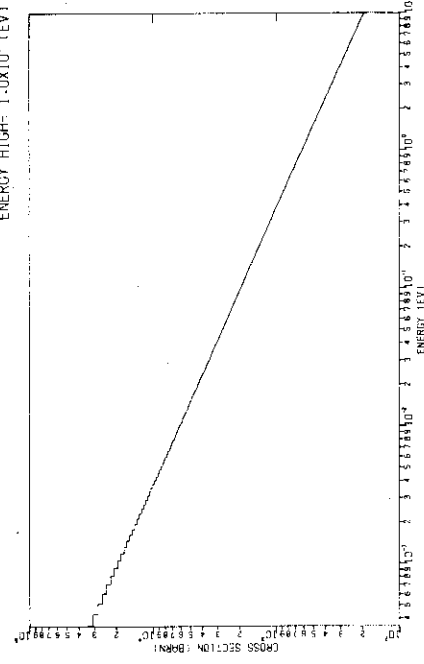
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 107

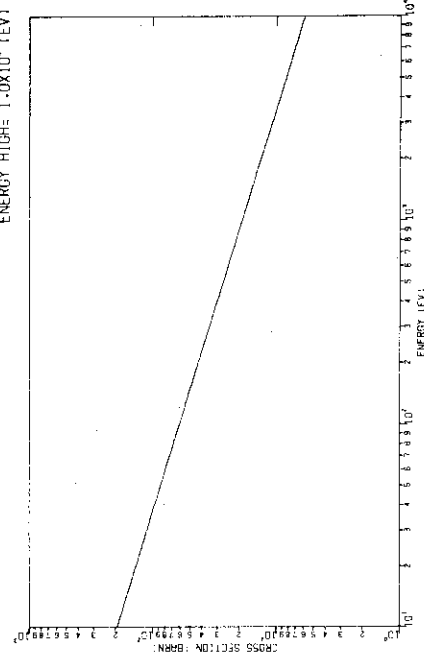
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 107

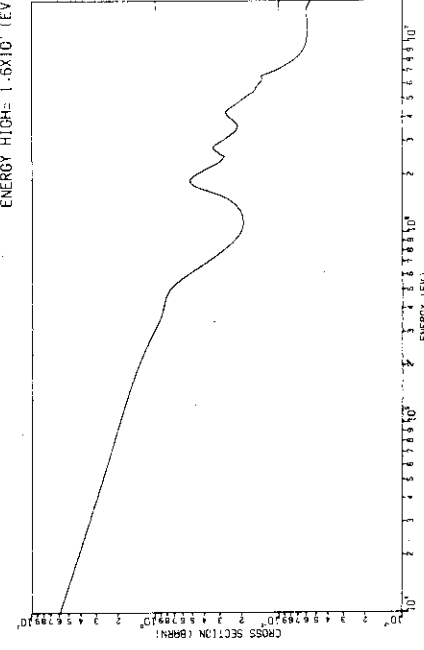
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1273 B-10 FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

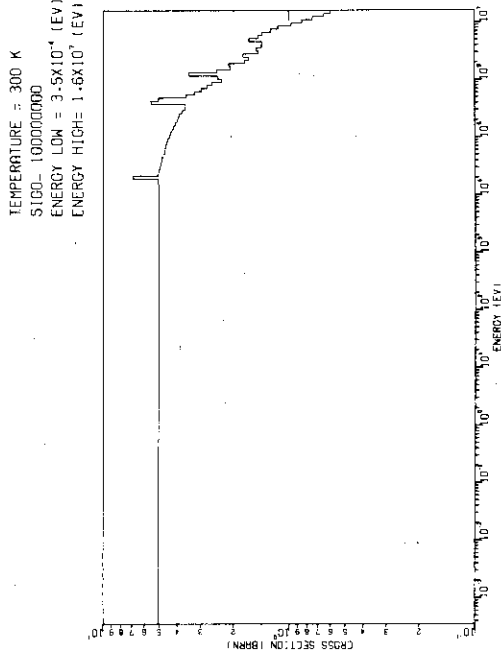
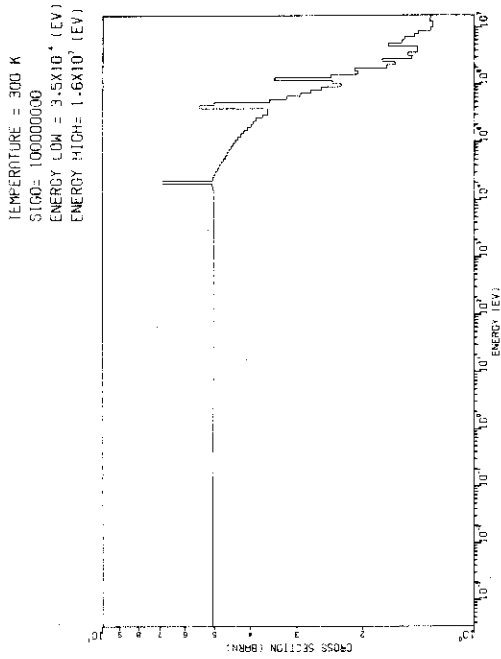




1160 B-11 FROM ENDF/B-IV ( 300K )

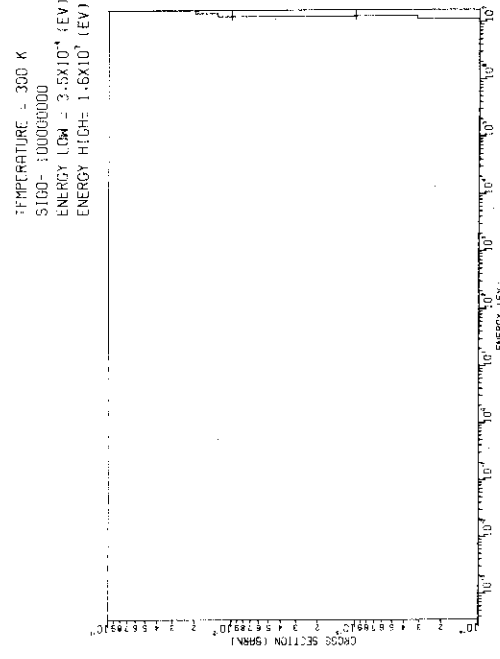
TOTAL

ELFS



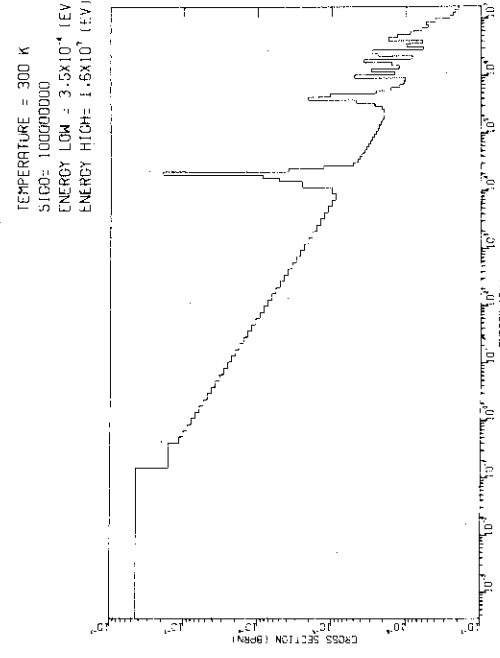
1160 B-11 FROM ENDF/B-IV ( 300K )

(N,2N)



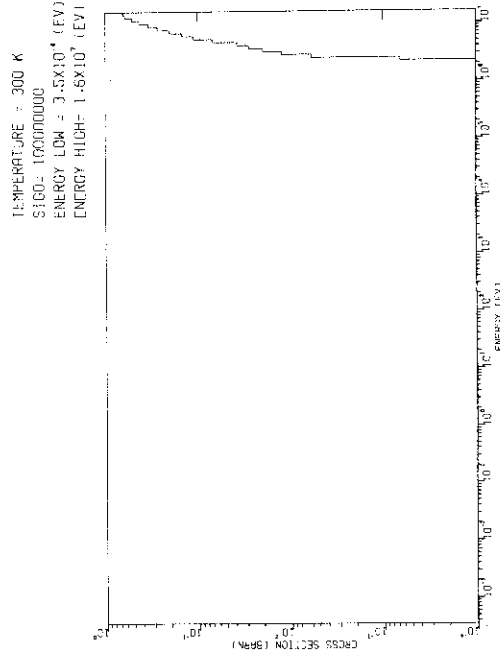
1160 B-11 FROM ENDF/B-IV ( 300K )

(N,G)



1160 B-11 FROM ENDF/B-IV ( 300K )

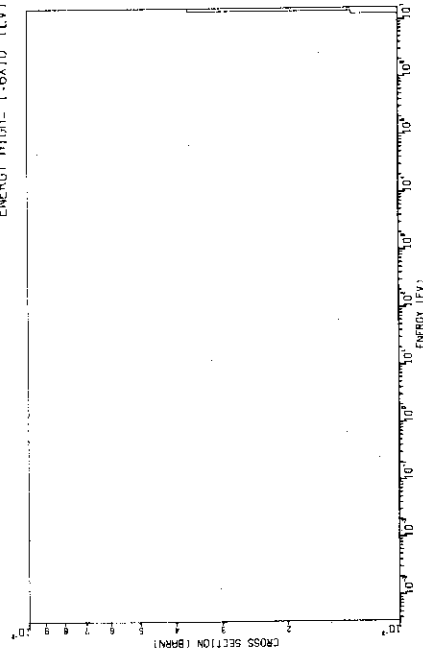
INE:AS



1160 B-11 FROM ENDF/B-V ( 300K )

IN.P1

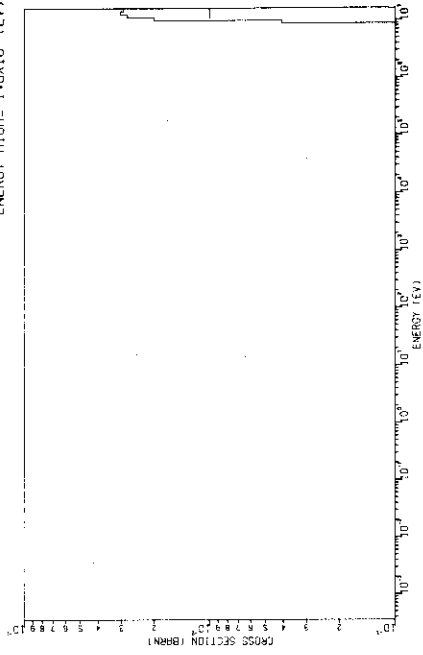
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-V ( 300K )

(N,P)

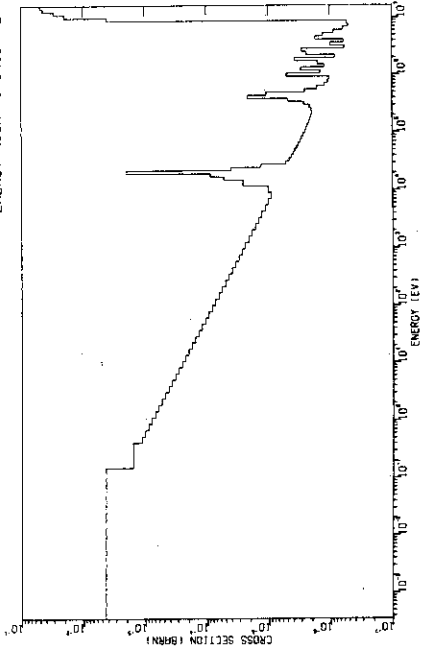
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-V ( 300K )

CAPTURE

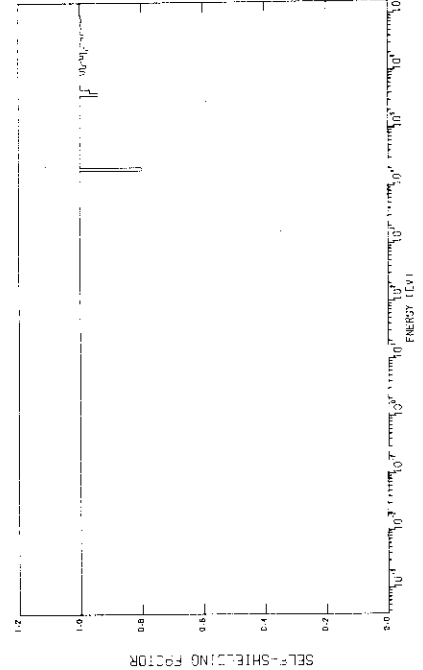
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-V ( 300K )

TOTAL

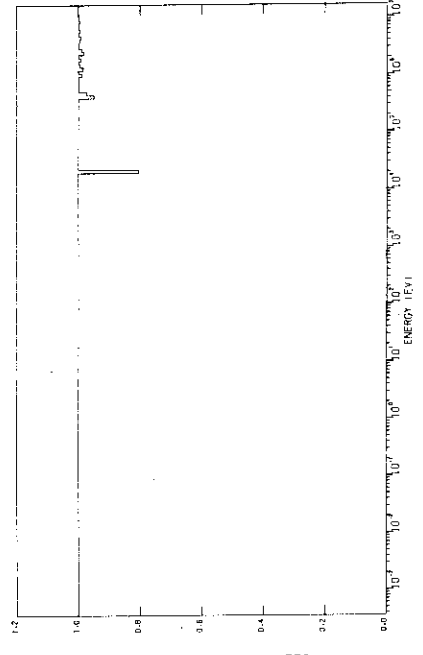
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-V ( 300K )

TOTAL

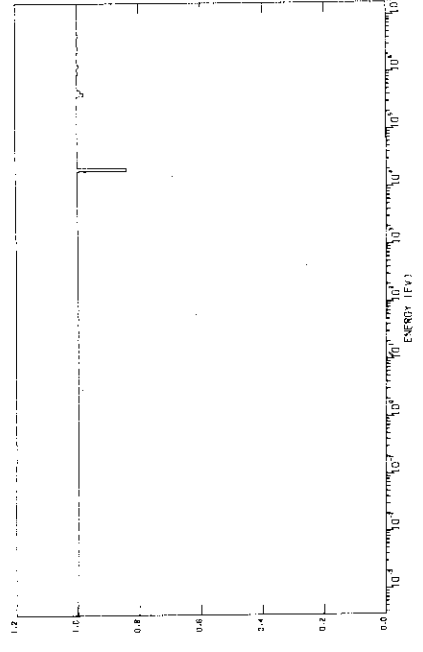
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-V ( 300K )

TOTAL

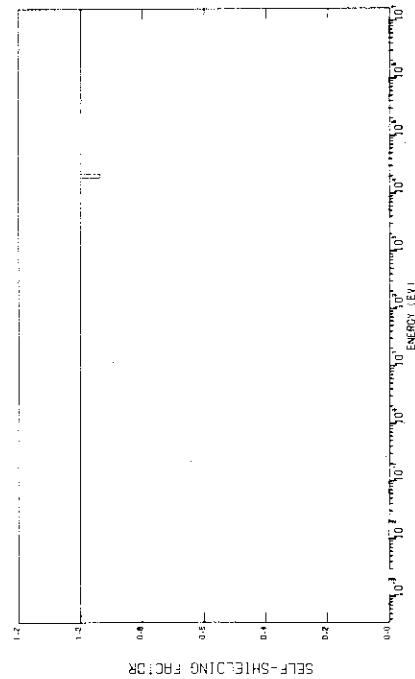
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

TOTAL

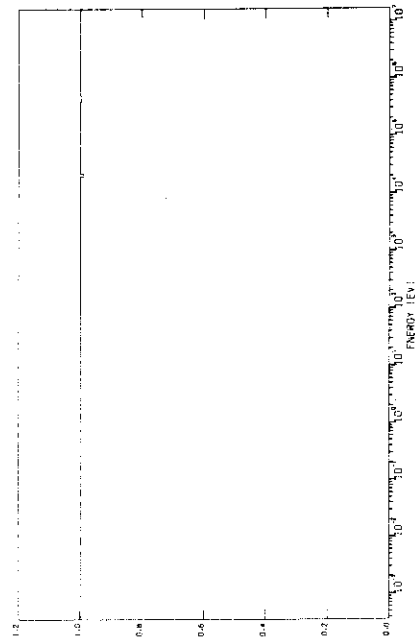
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

TOTAL

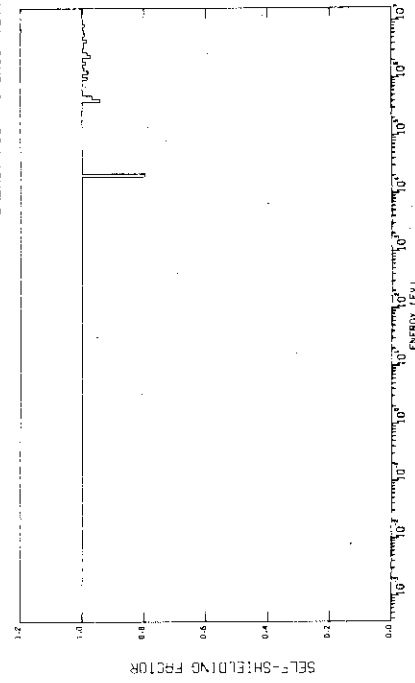
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

ELAS

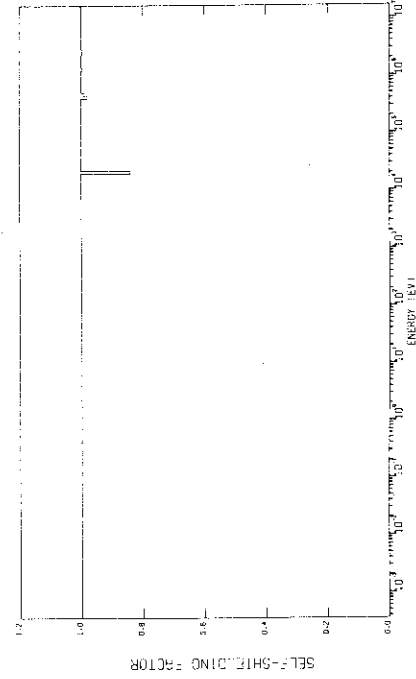
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

ELAS

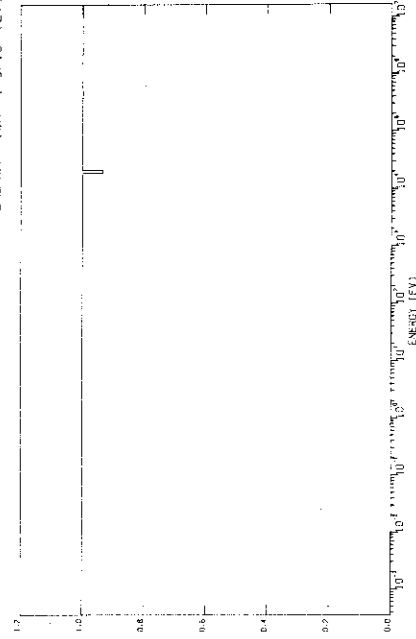
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

ELAS

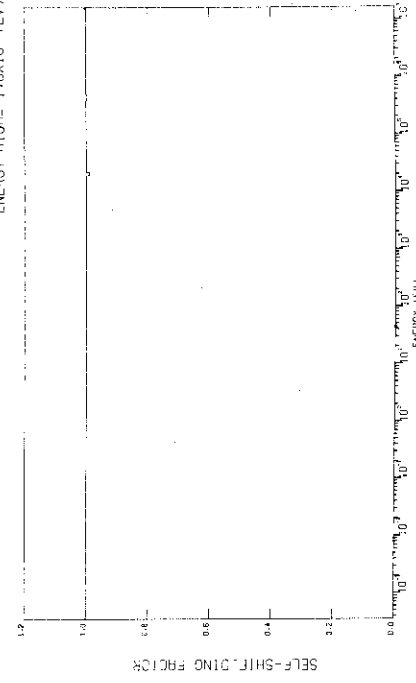
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

ELAS

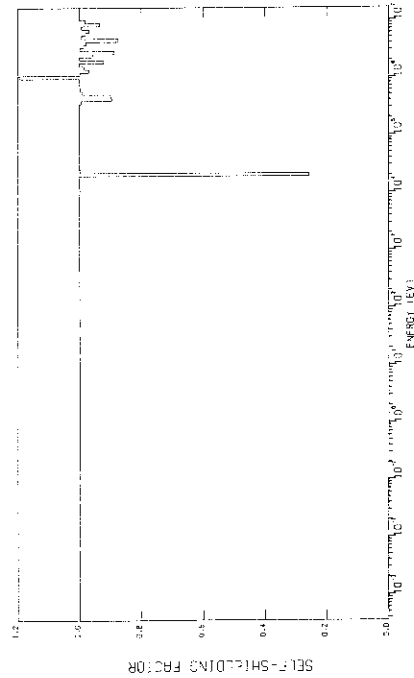
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

CAPTURE

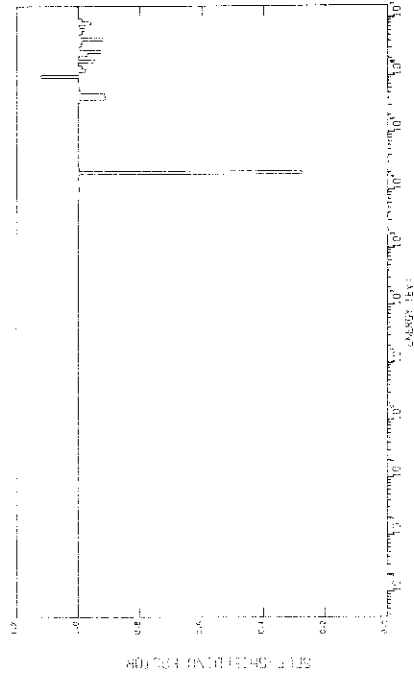
TEMPERATURE = 300 K  
S100= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

CAPTURE

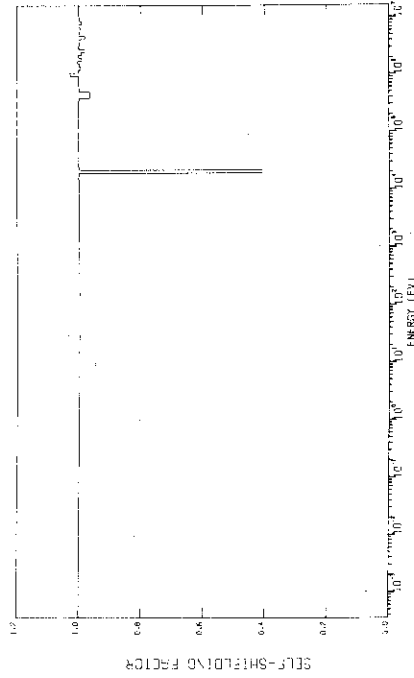
TEMPERATURE = 300 K  
S100= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

CAPTURE

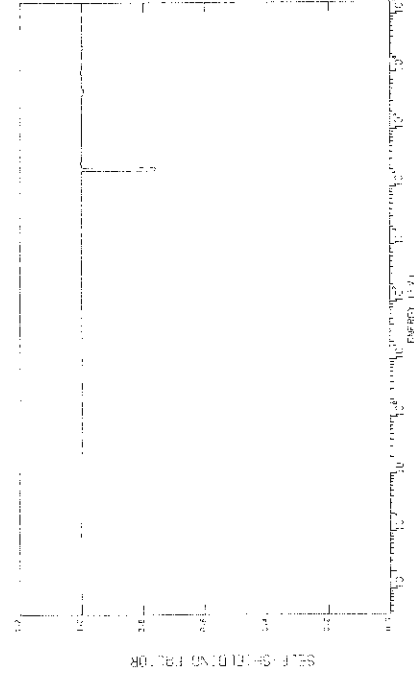
TEMPERATURE = 300 K  
S100= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

CAPTURE

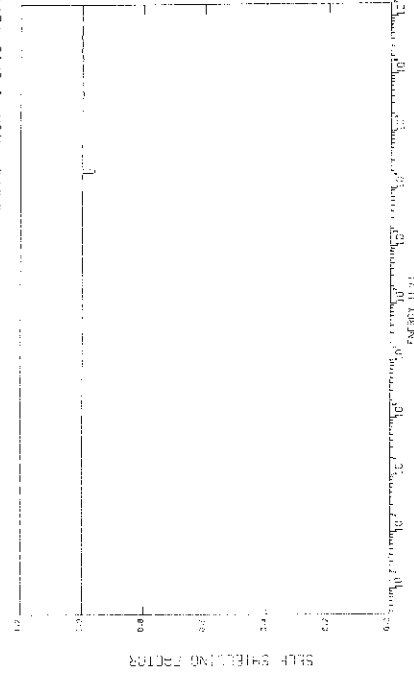
TEMPERATURE = 300 K  
S100= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

CAPTURE

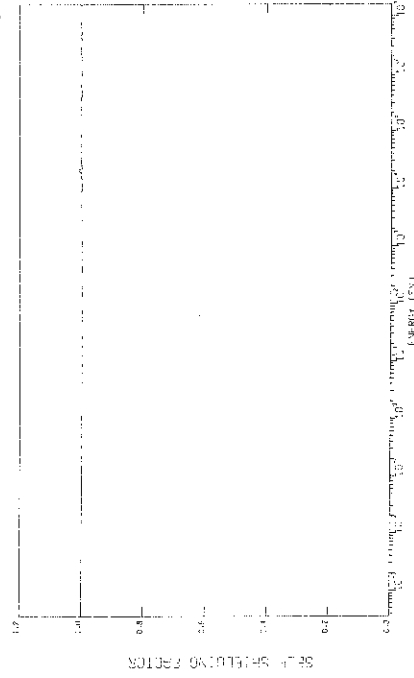
TEMPERATURE = 300 K  
S100= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1160 B-11 FROM ENDF/B-IV ( 300K )

CAPTURE

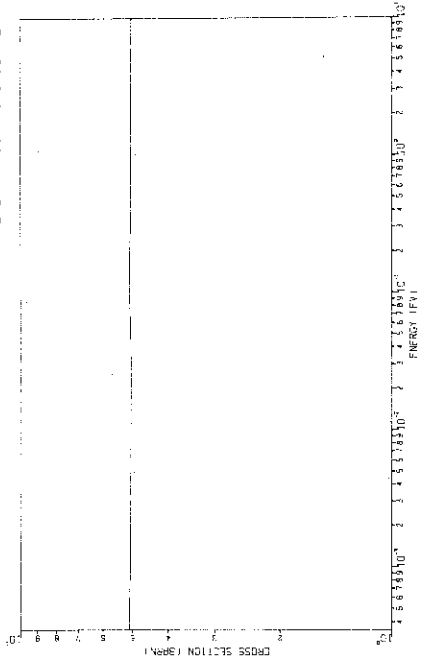
TEMPERATURE = 300 K  
S100= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1150 B-11 FROM ENDF/B-IV

REACTION TYPE = 1

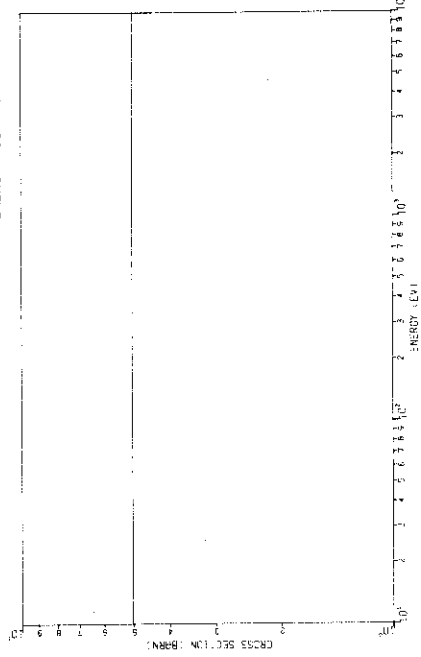
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1150 B-11 FROM ENDF/B-IV

REACTION TYPE = 1

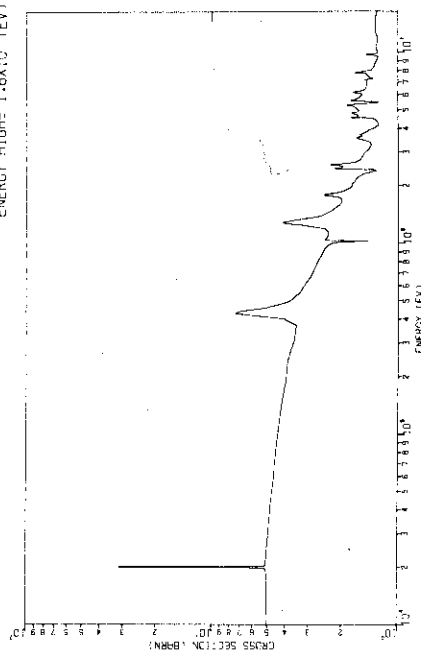
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1150 B-11 FROM ENDF/B-IV

REACTION TYPE = 1

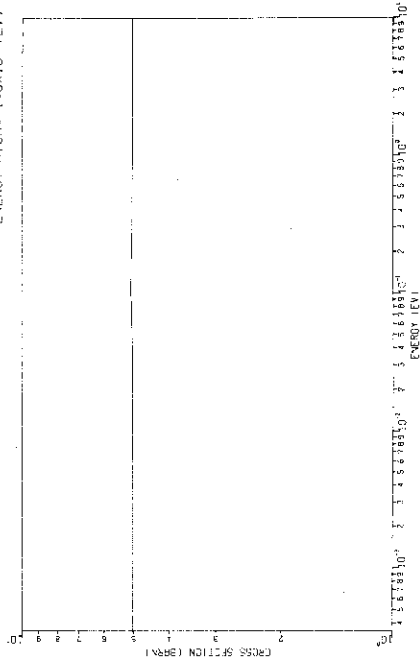
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1150 B-11 FROM ENDF/B-IV

REACTION TYPE = 2

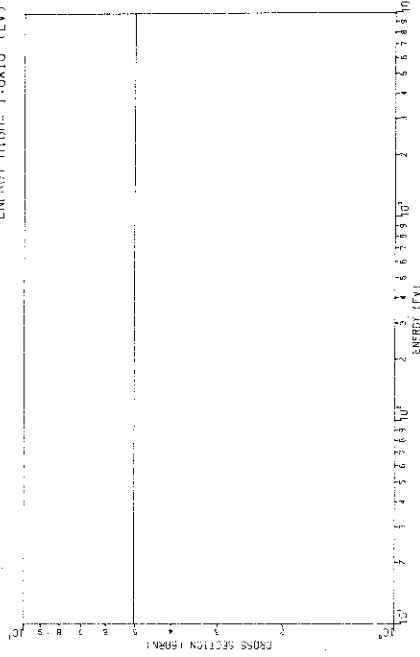
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1150 B-11 FROM ENDF/B-IV

REACTION TYPE = 2

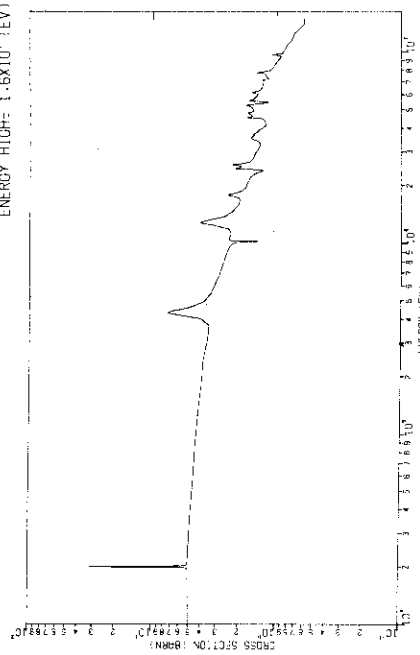
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1150 B-11 FROM ENDF/B-IV

REACTION TYPE = 2

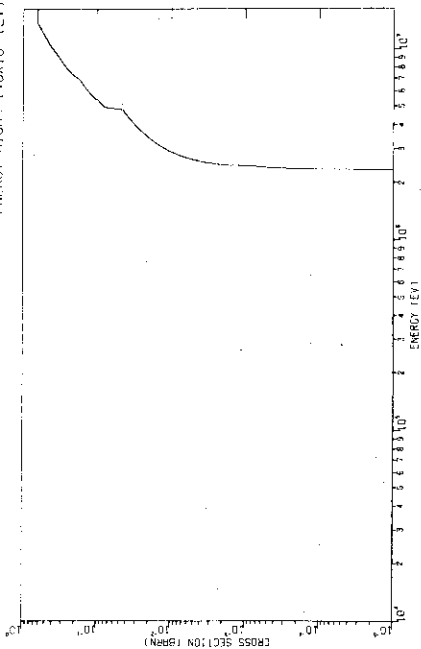
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1160 B-11 FROM ENDF/B-1V

REACTION TYPE = 4

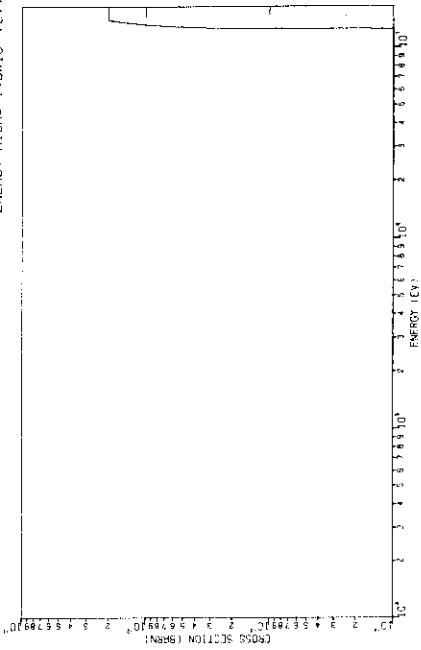
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-1V

REACTION TYPE = 16

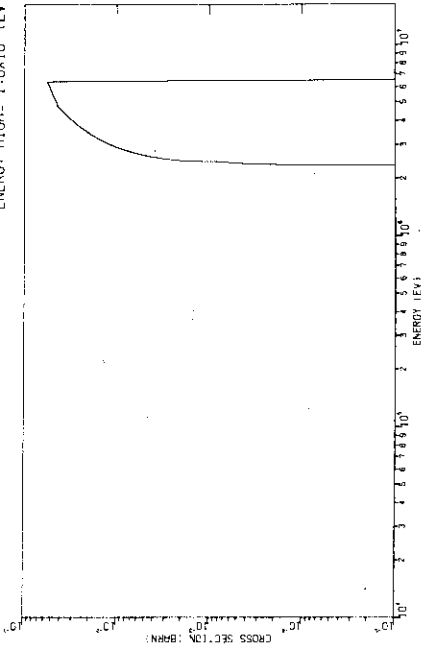
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-1V

REACTION TYPE = 51

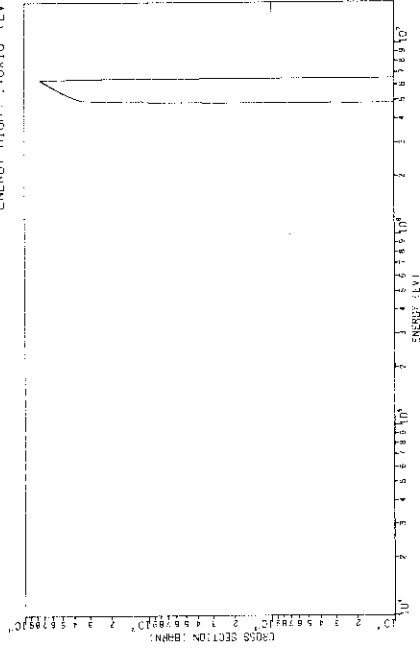
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-1V

REACTION TYPE = 52

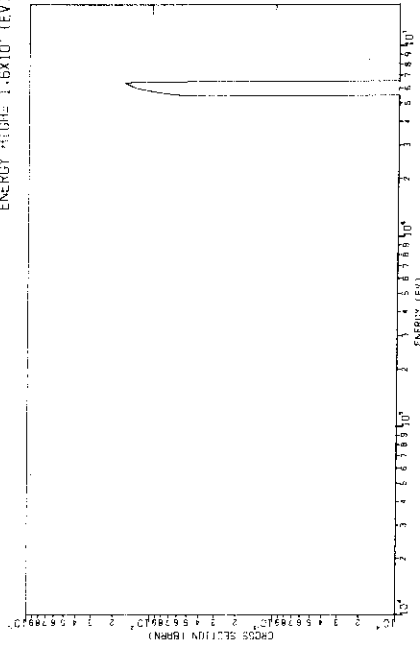
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-1V

REACTION TYPE = 53

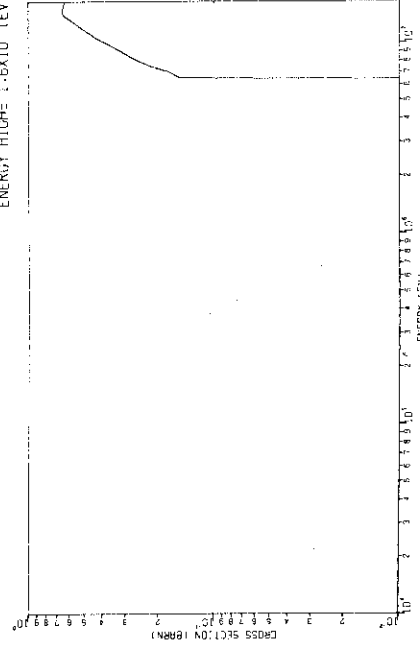
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-1V

REACTION TYPE = 91

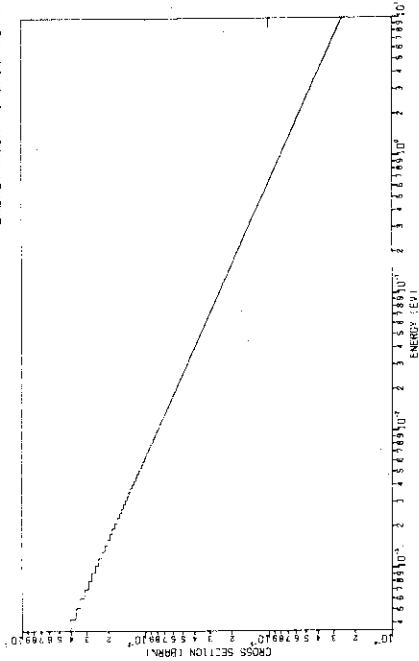
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-IV

REACTION TYPE = 102

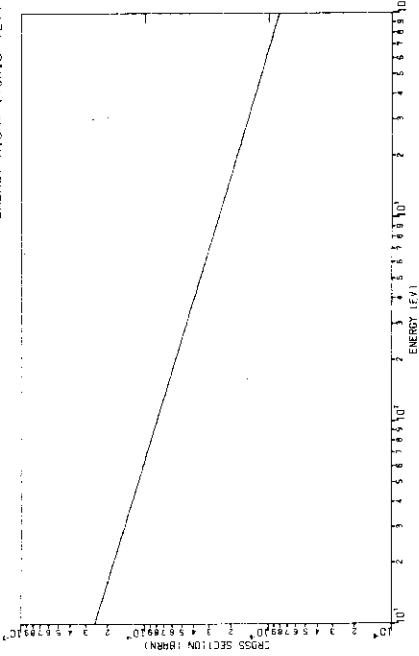
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-8</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-IV

REACTION TYPE = 102

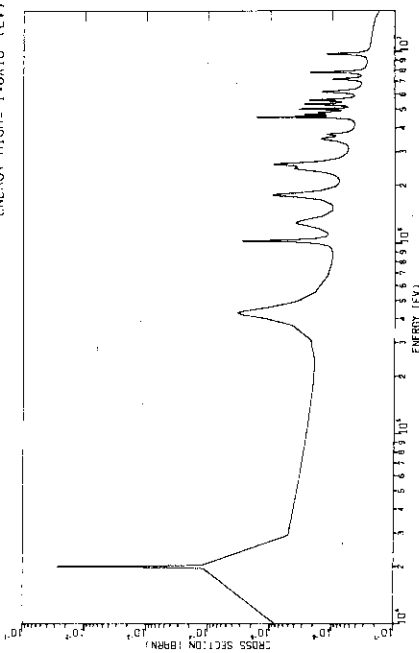
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-IV

REACTION TYPE = 102

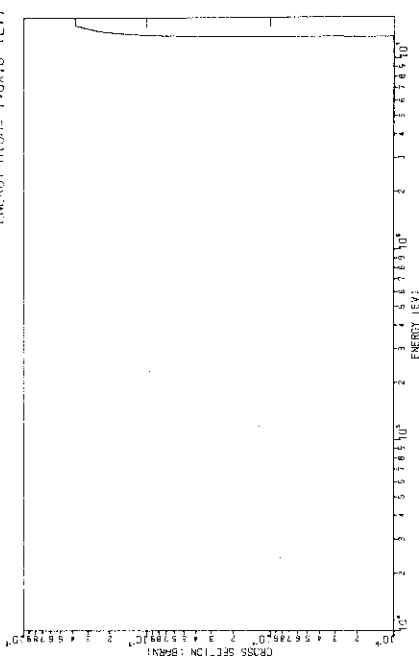
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-IV

REACTION TYPE = 103

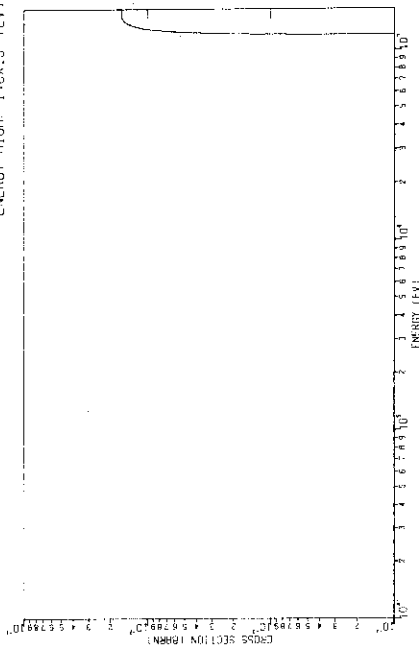
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-IV

REACTION TYPE = 105

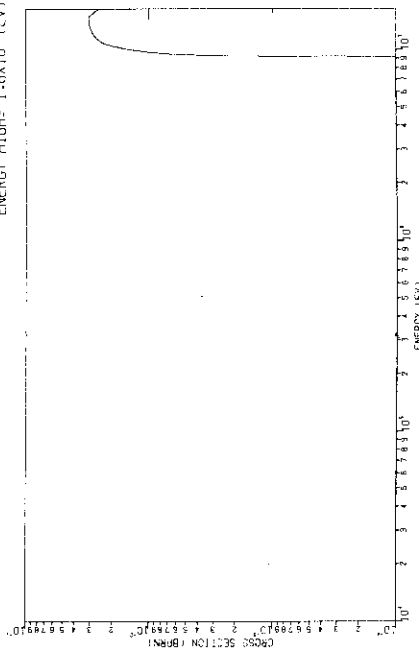
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1160 B-11 FROM ENDF/B-IV

REACTION TYPE = 107

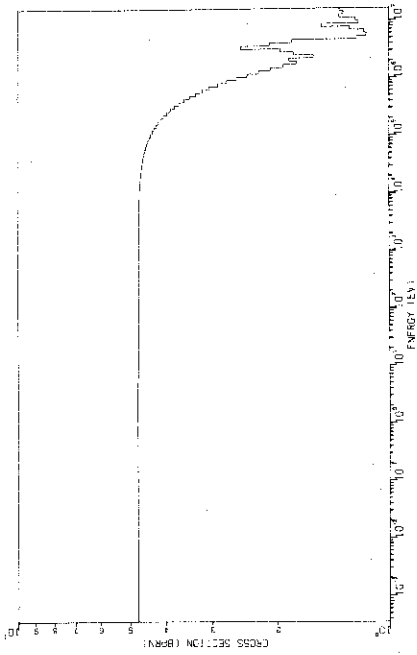
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

(DATA)

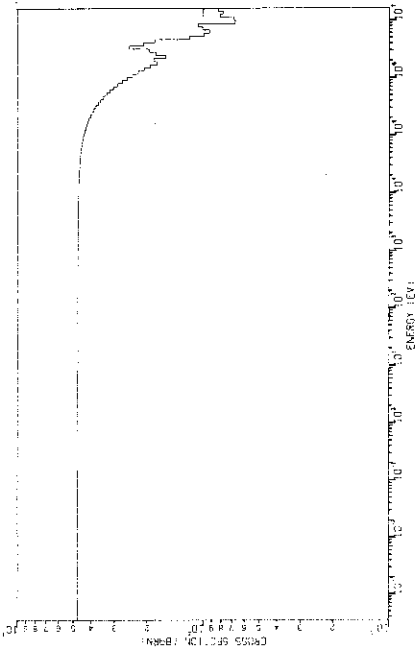
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

(ELFS)

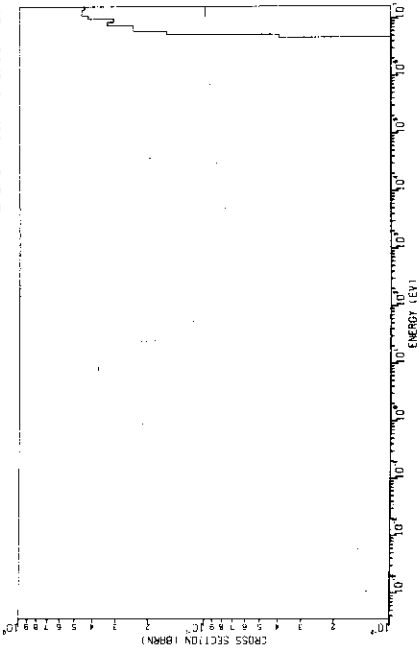
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

(INCRS)

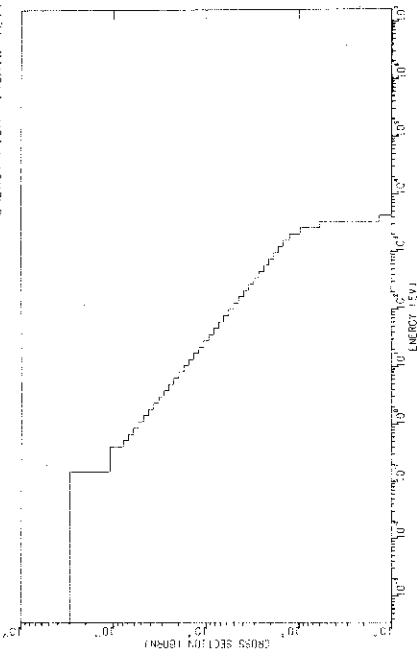
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

(N.A.)

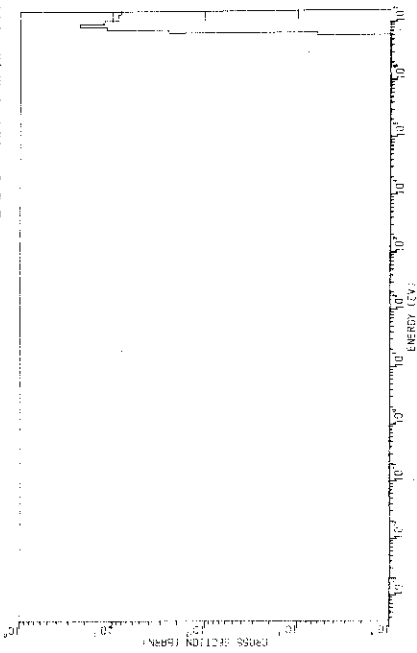
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

(N.A.)

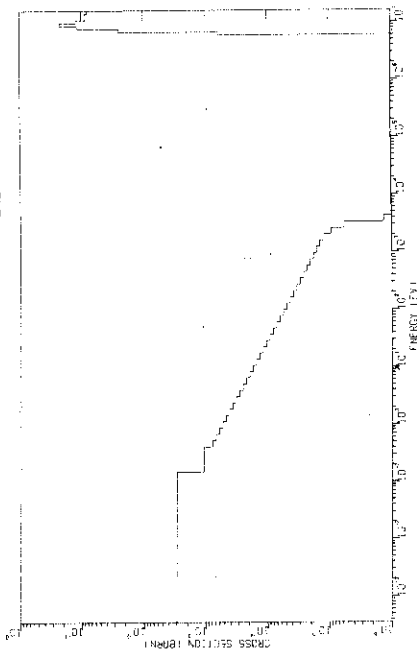
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

(CAPTURE)

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

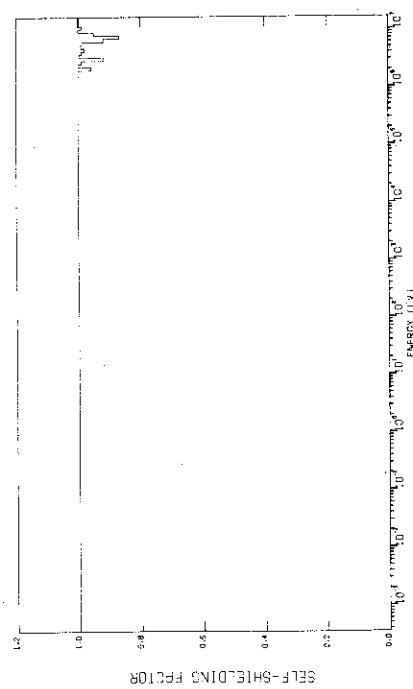




1274 C-12 FROM ENDF/B-IV ( 300K )

TOTAL

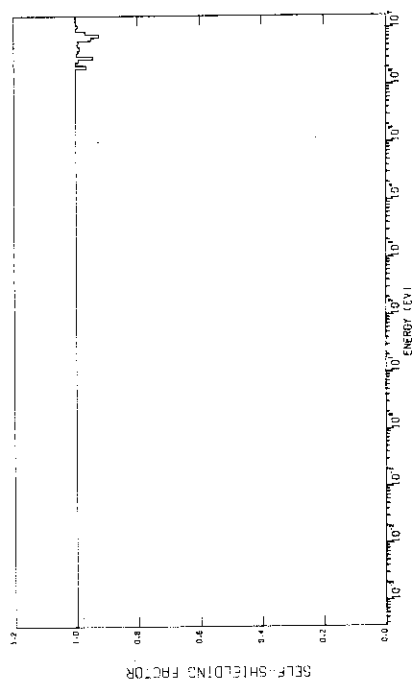
TEMPERATURE = 300 K  
SIGG= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

TOTAL

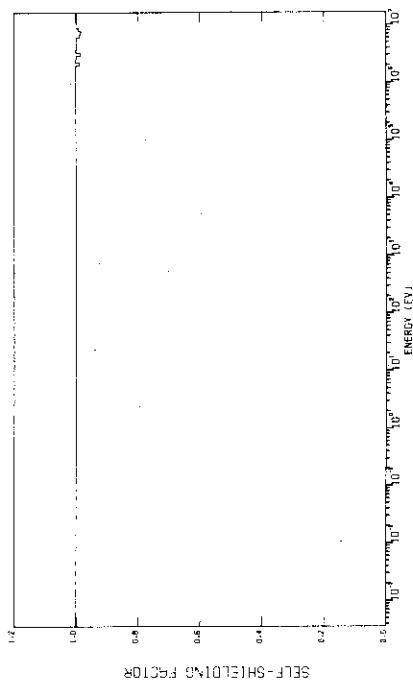
TEMPERATURE = 300 K  
SIGG= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

TOTAL

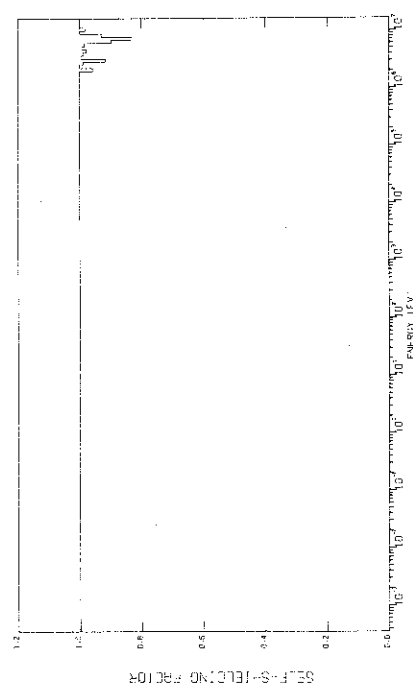
TEMPERATURE = 300 K  
SIGG= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

ELAS

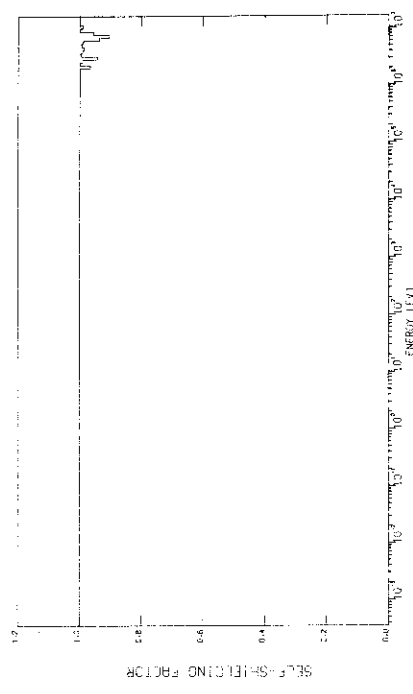
TEMPERATURE = 300 K  
SIGG= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

ELAS

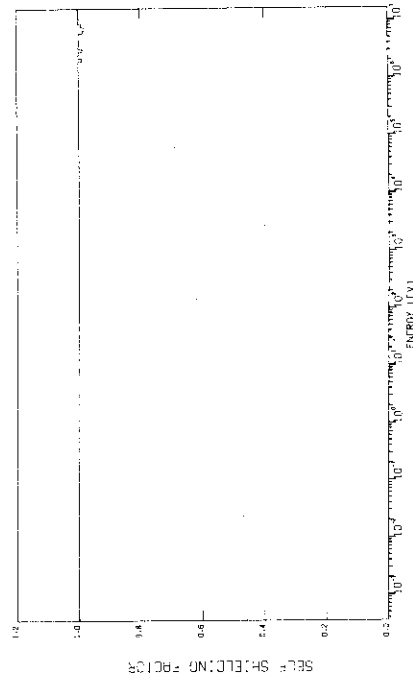
TEMPERATURE = 300 K  
SIGG= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B-IV ( 300K )

ELAS

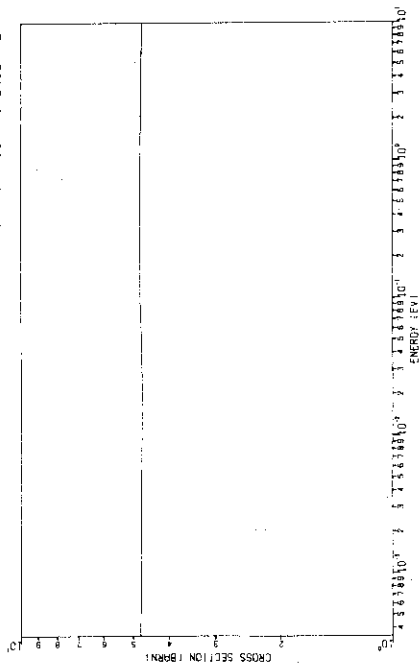
TEMPERATURE = 300 K  
SIGG= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1274 C-12 FROM ENDF/B IV

REACTION TYPE = 1

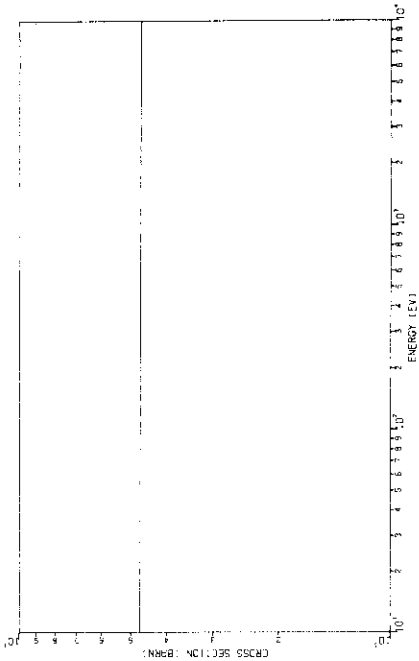
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>5</sup> (EV)



1274 C-12 FROM ENDF/B-IV

REACTION TYPE = 1

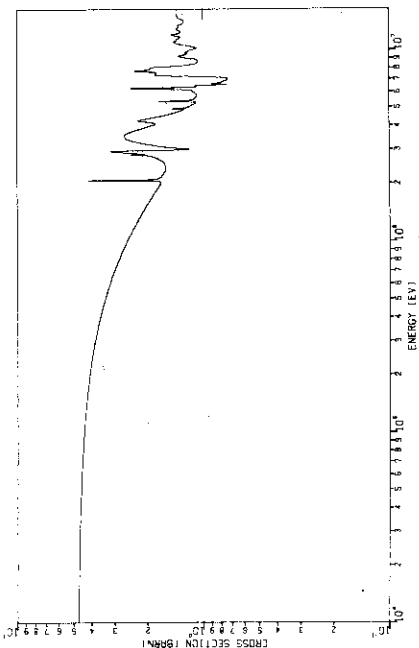
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>5</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>5</sup> (EV)



1274 C-12 FROM ENDF/B IV

REACTION TYPE = 1

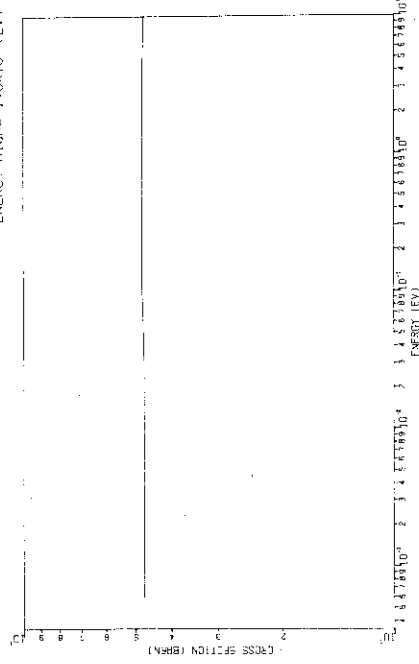
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>5</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>5</sup> (EV)



1274 C-12 FROM ENDF/B-IV

REACTION TYPE = 2

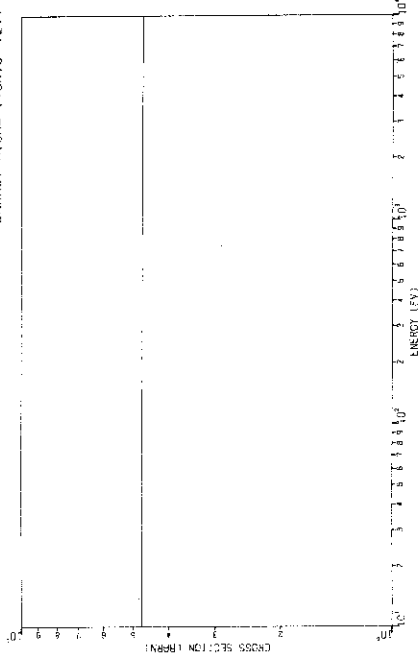
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>5</sup> (EV)



1274 C-12 FROM ENDF/B-IV

REACTION TYPE = 2

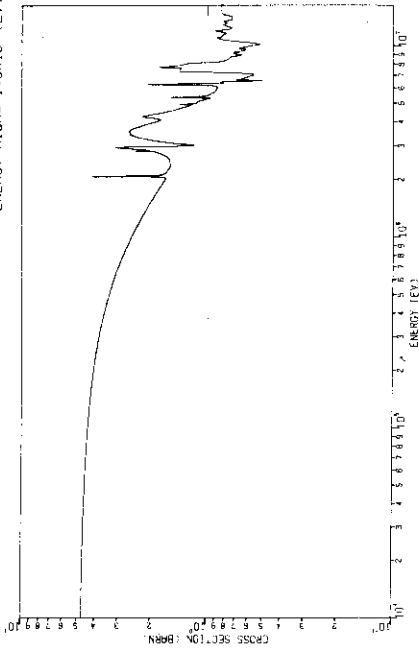
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>5</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>5</sup> (EV)



1274 C-12 FROM ENDF/B-IV

REACTION TYPE = 2

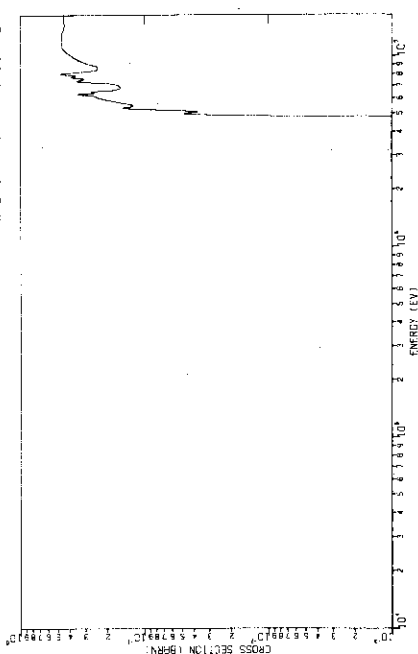
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>5</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>5</sup> (EV)



1274 C-12 FROM ENDF/B-IV

REACTION TYPE = 4

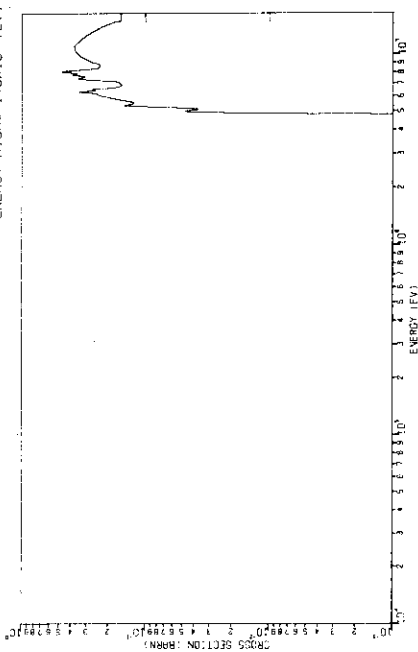
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1274 C-12 FROM ENDF/B-IV

REACTION TYPE = 51

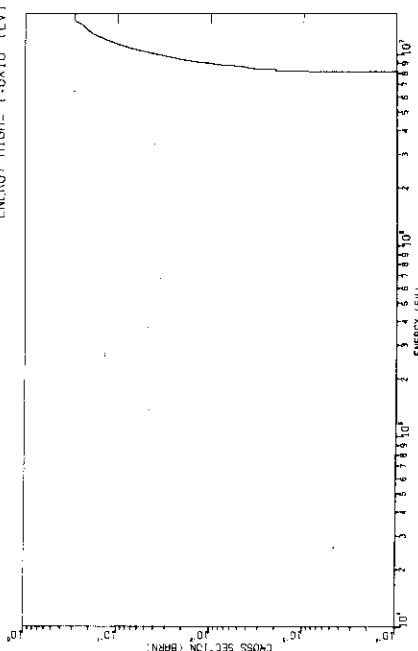
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1274 C-12 FROM ENDF/B-IV

REACTION TYPE = 91

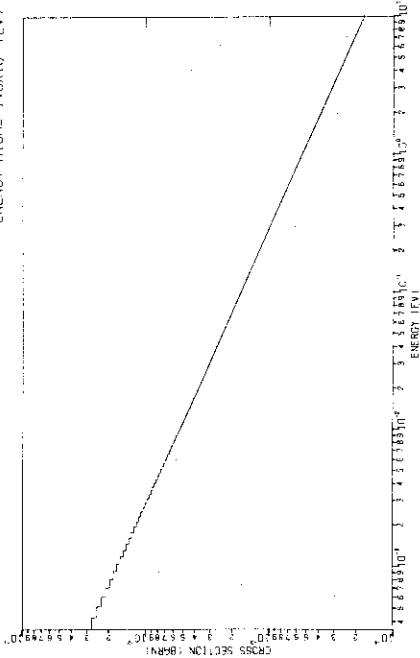
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1274 C-12 FROM ENDF/B-IV

REACTION TYPE = 102

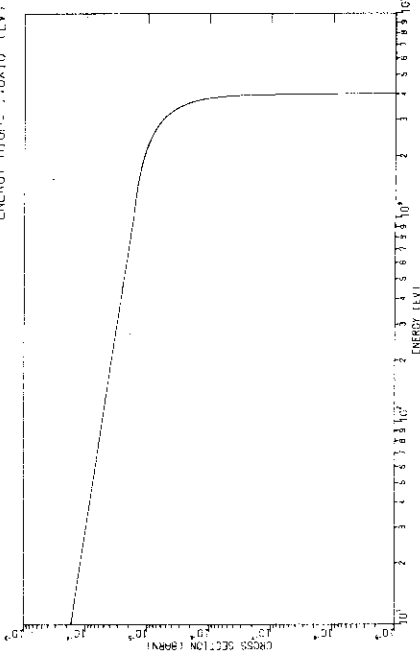
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 3.5X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)



1274 C-12 FROM ENDF/B-IV

REACTION TYPE = 102

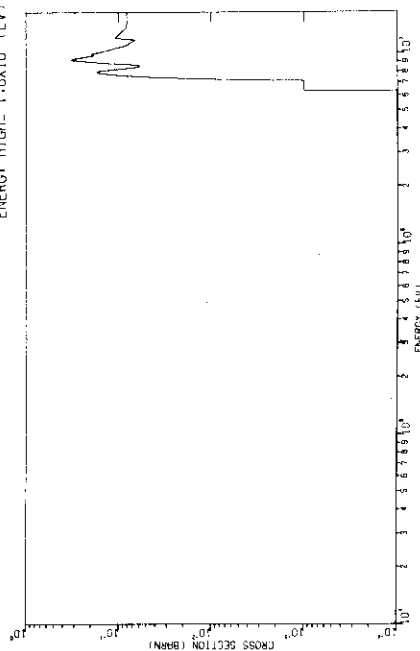
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1274 C-12 FROM ENDF/B-IV

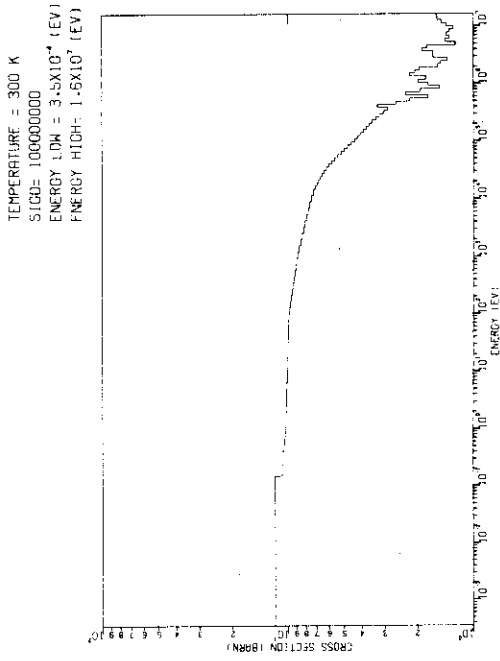
REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



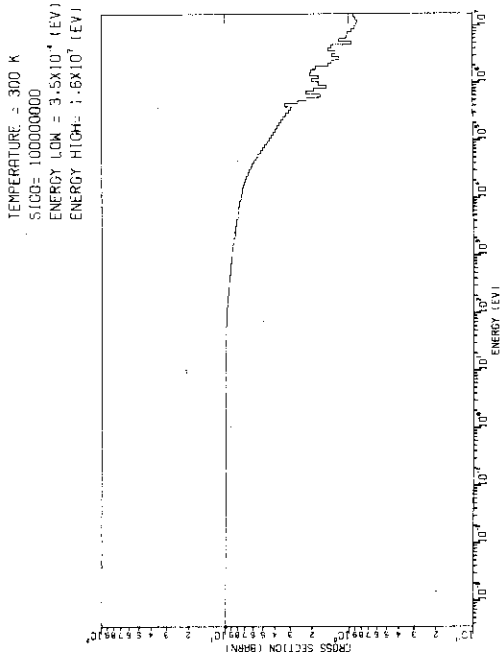
1275 N-14 FROM ENDF/B-IV ( 300K )

TOTAL



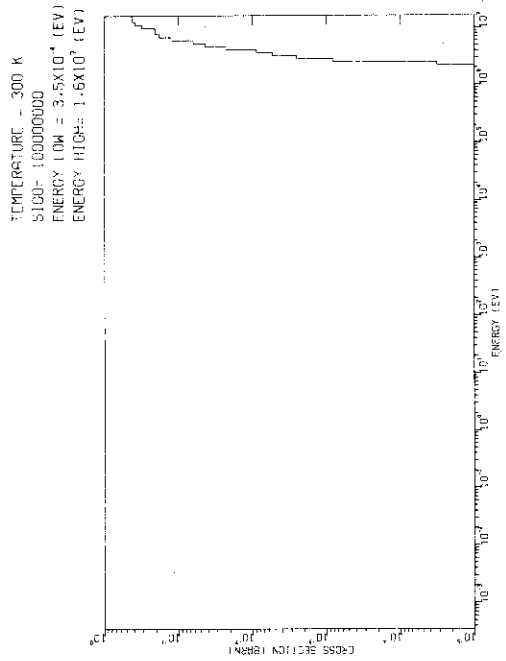
1275 N-14 FROM ENDF/B-IV ( 300K )

CLAS



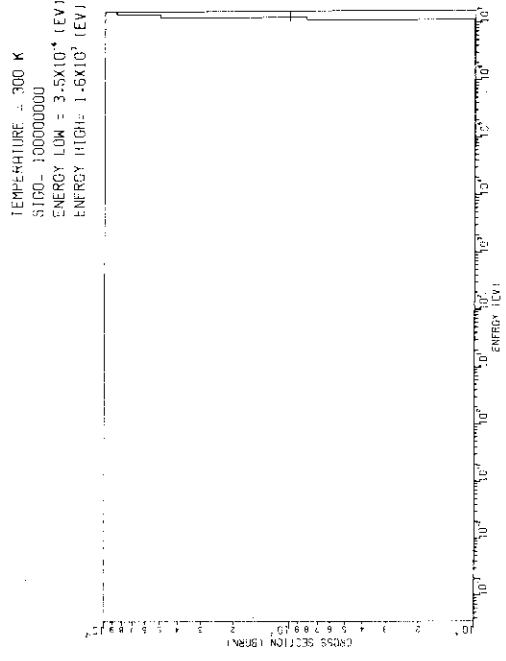
1275 N-14 FROM ENDF/B-IV ( 300K )

(NE)AS



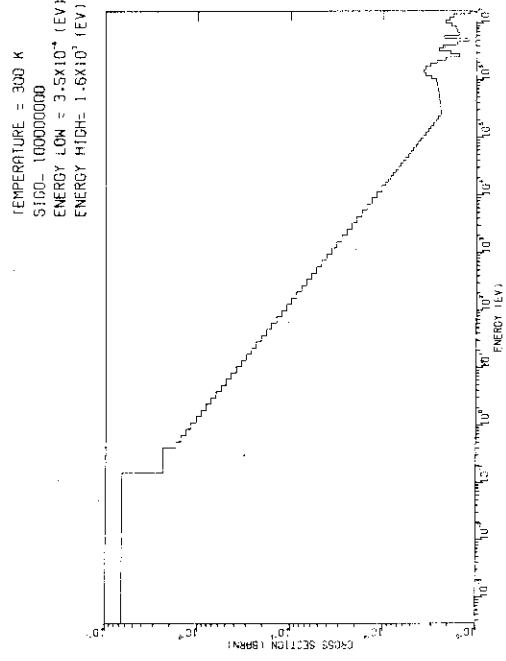
1275 N-14 FROM ENDF/B-IV ( 300K )

(N+2N)



1275 N-14 FROM ENDF/B-IV ( 300K )

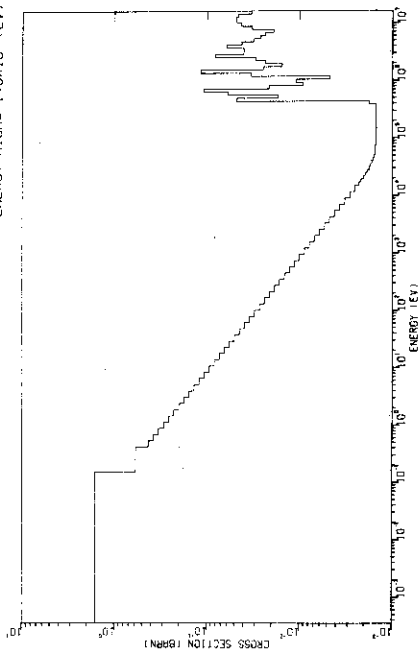
(N+G)



1275 N-14 FROM ENDF/B-IV ( 300K )

(N,P)

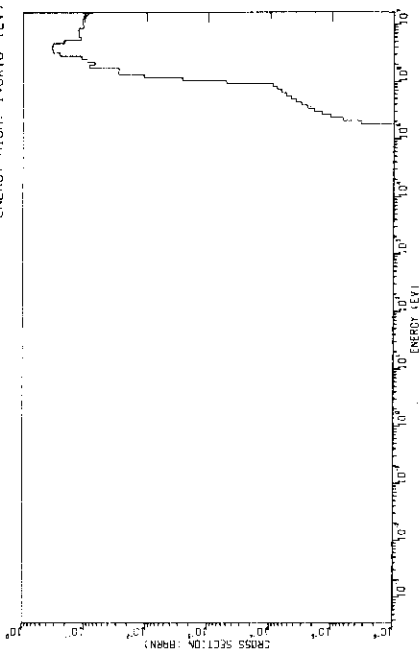
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV ( 300K )

(N,A)

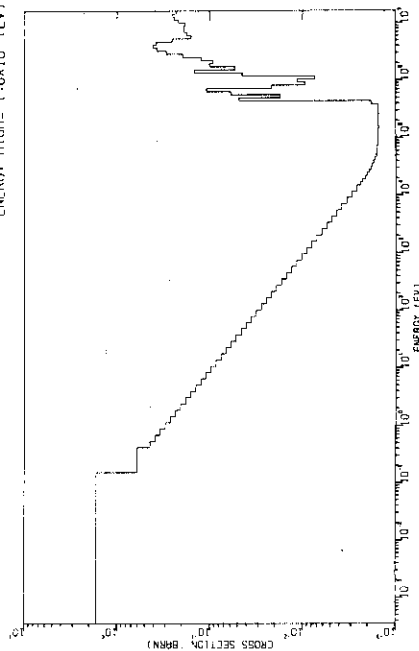
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV ( 300K )

CAPTURE

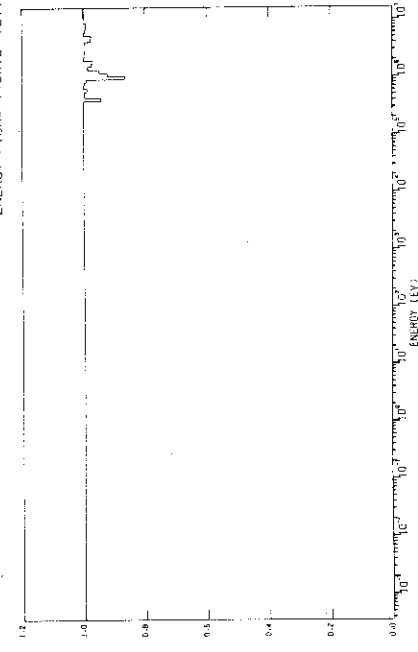
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV ( 300K )

TOTAL

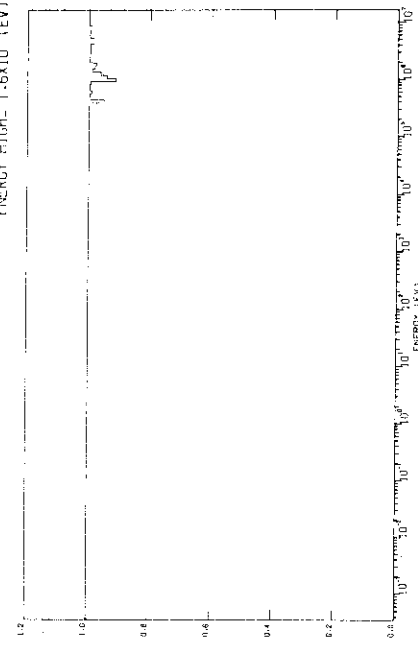
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV ( 300K )

TOTAL

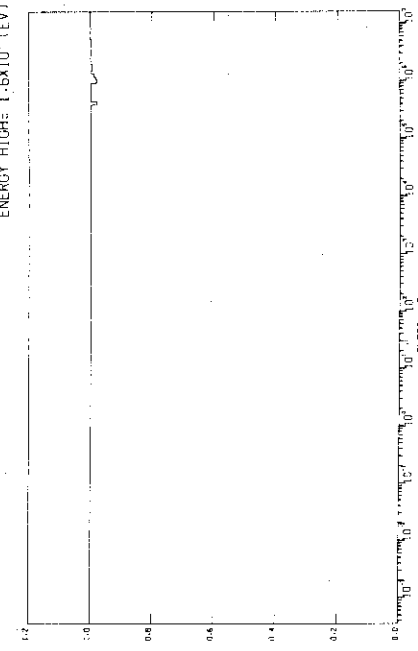
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV ( 300K )

TOTAL

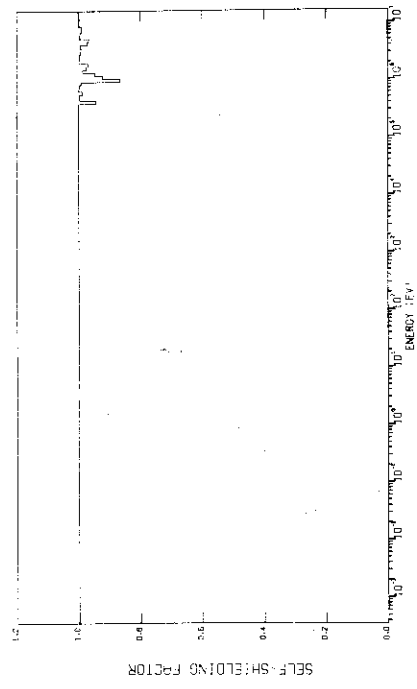
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV (300K)

ELAS

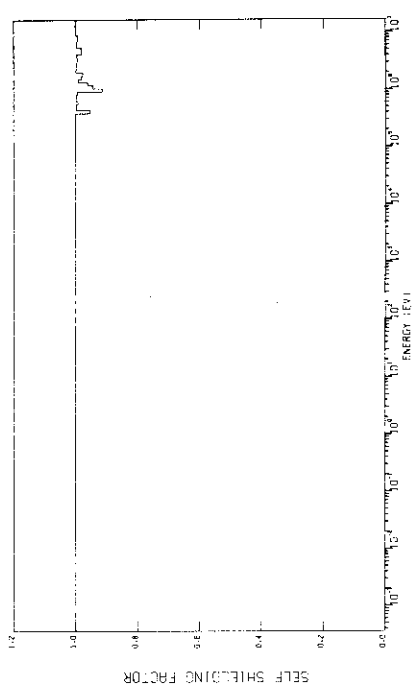
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV (300K)

ELAS

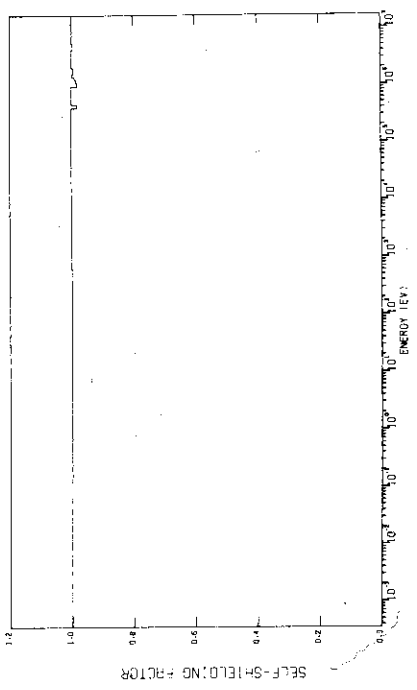
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV (300K)

ELAS

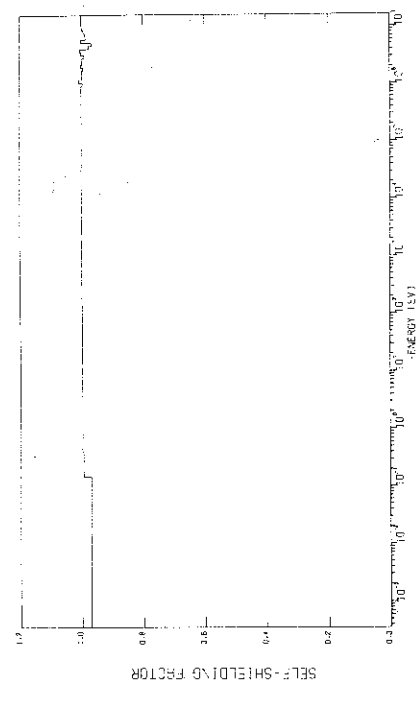
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV (300K)

CAPTURE

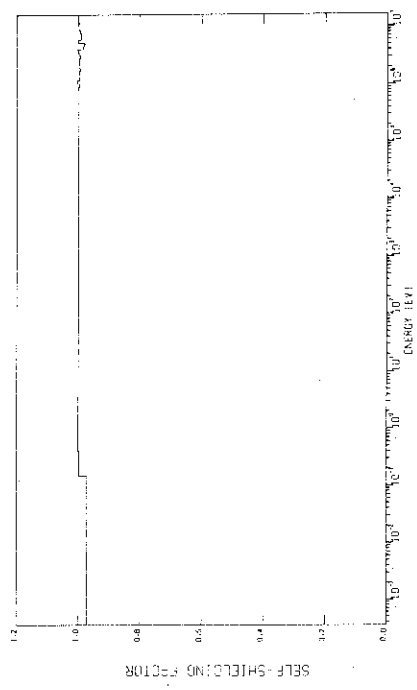
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV (300K)

CAPTURE

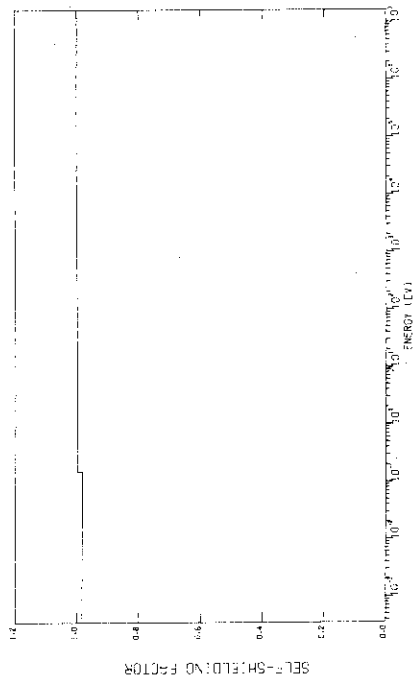
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV (300K)

CAPTURE

TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



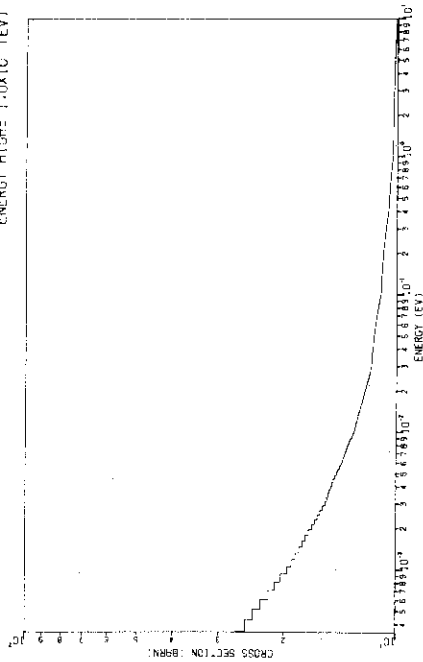
**<sup>14</sup>N  
7  
1275**

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1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 1

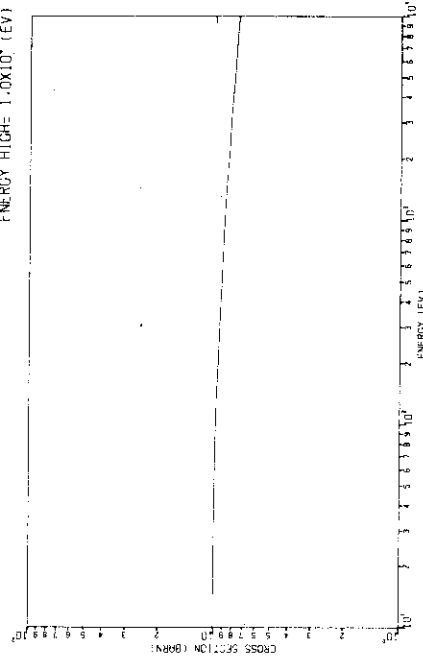
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 1

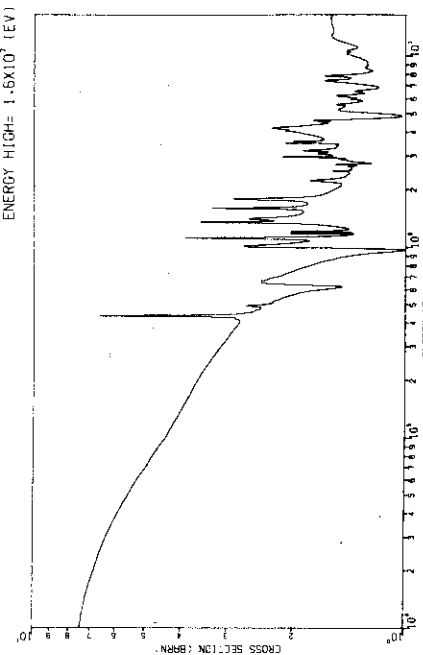
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 1

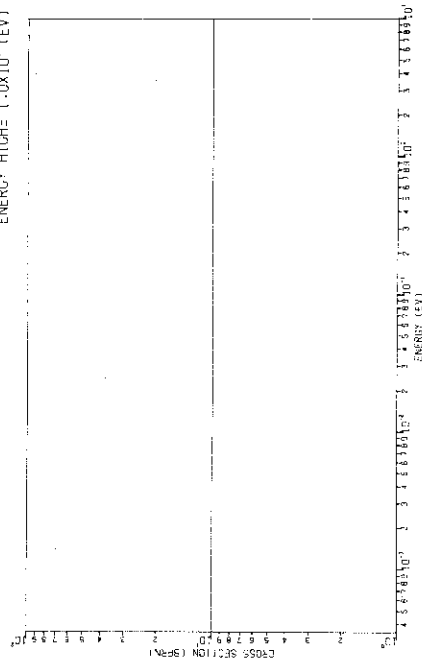
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.5X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 2

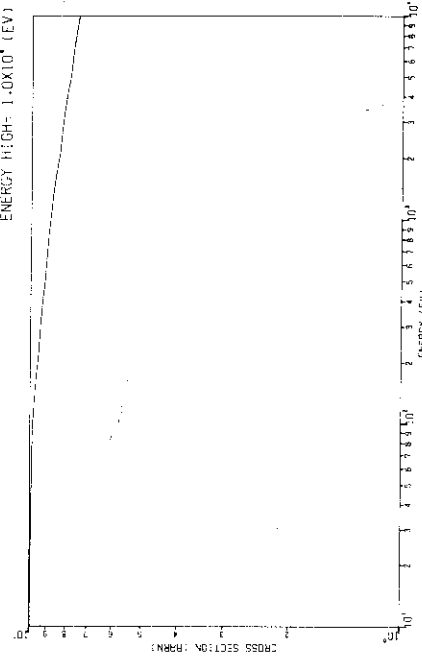
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 2

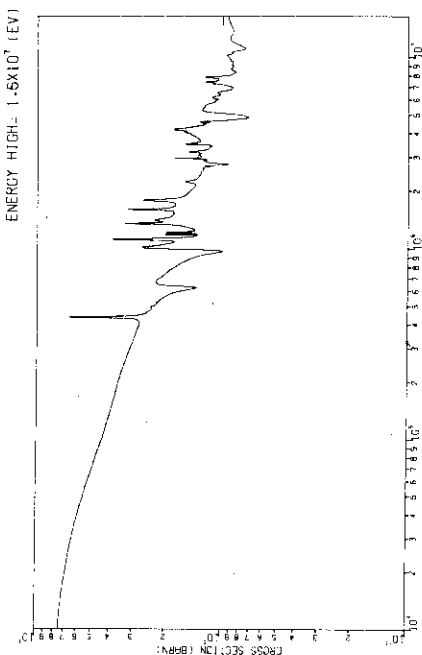
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 2

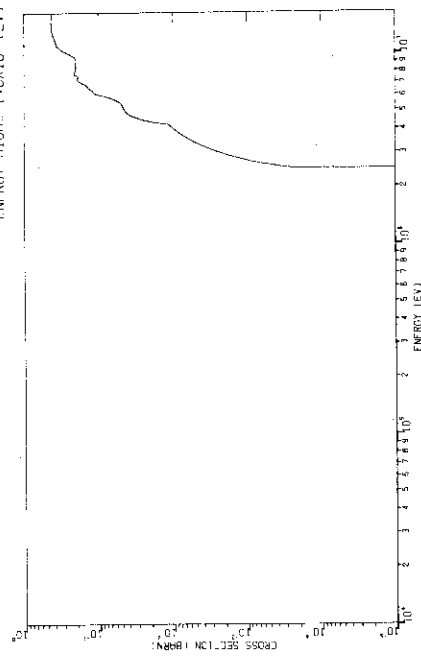
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.5X10<sup>7</sup> (EV)



1275 N-14 FROM FNUF/B-IV

REACTION TYPE = 4

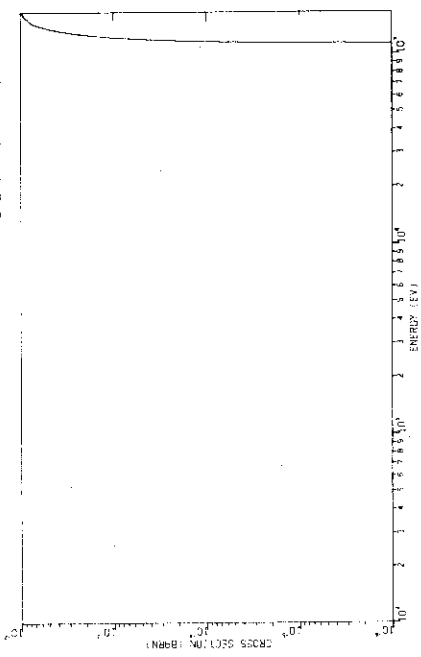
TEMPERATURE = 300 K  
SIG00 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 16

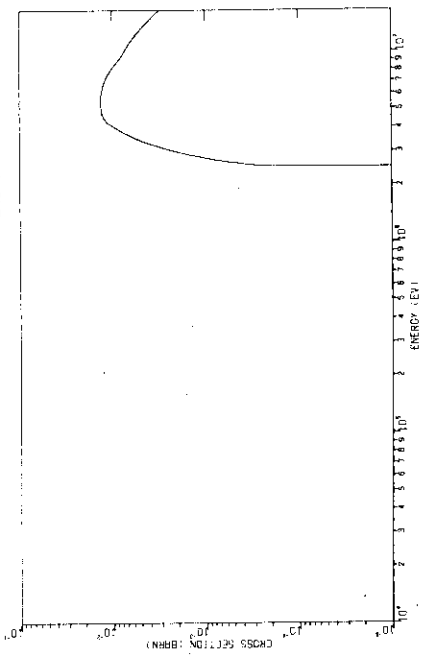
TEMPERATURE = 300 K  
SIG00 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 51

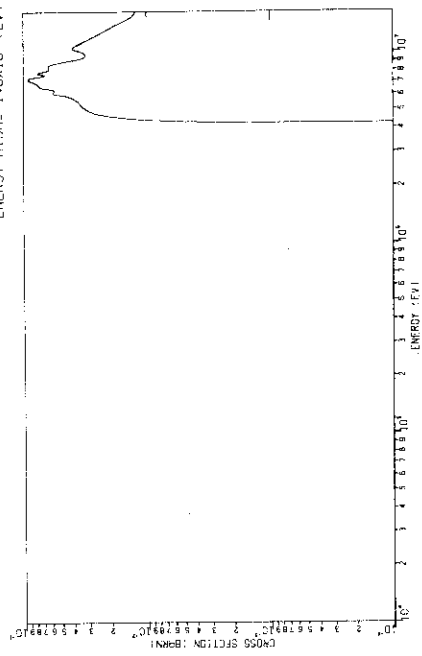
TEMPERATURE = 300 K  
SIG00 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 52

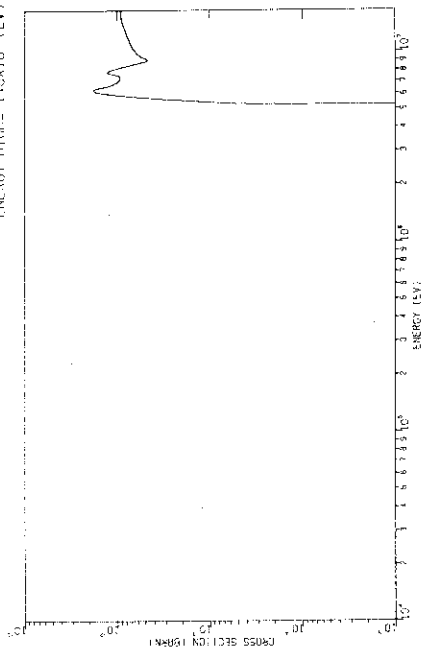
TEMPERATURE = 300 K  
SIG00 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM FNUF/B-IV

REACTION TYPE = 53

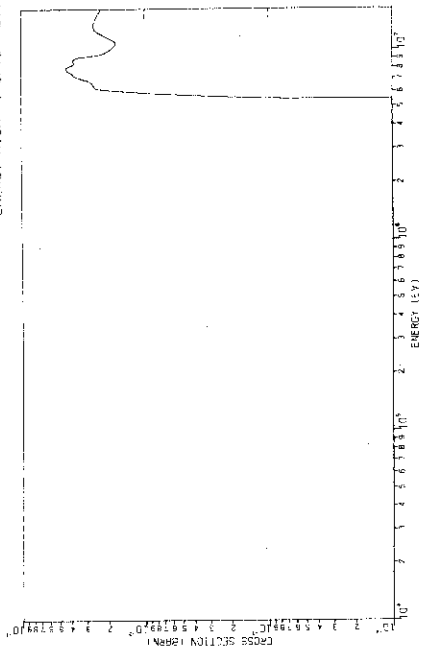
TEMPERATURE = 300 K  
SIG00 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 54

TEMPERATURE = 300 K  
SIG00 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)





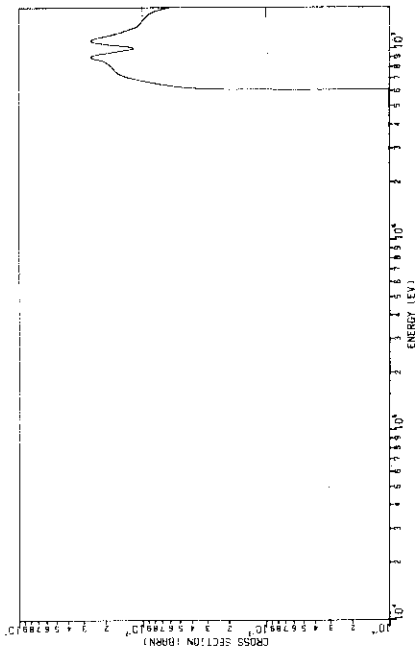
**<sup>14</sup>N  
7  
1275**

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1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 55

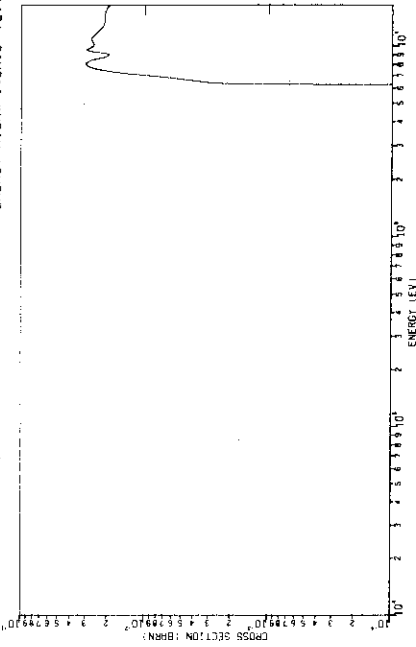
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 56

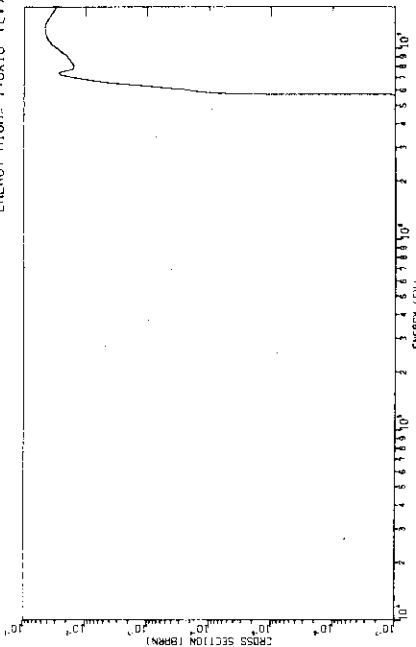
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 104

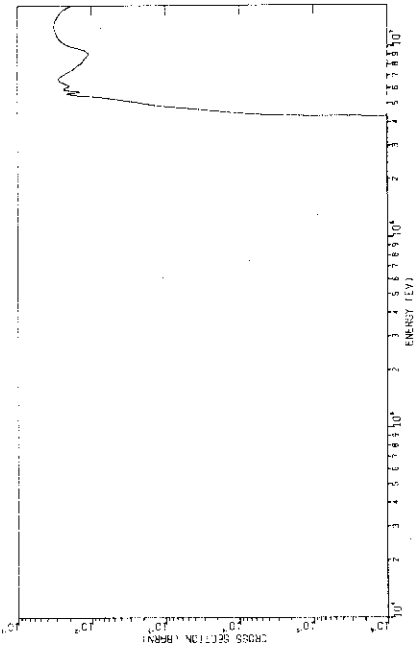
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 105

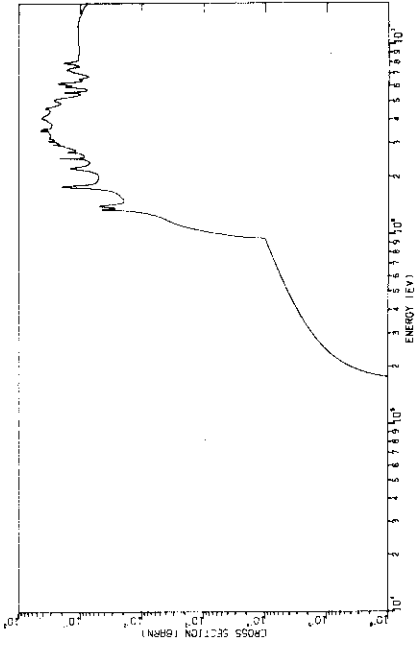
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 107

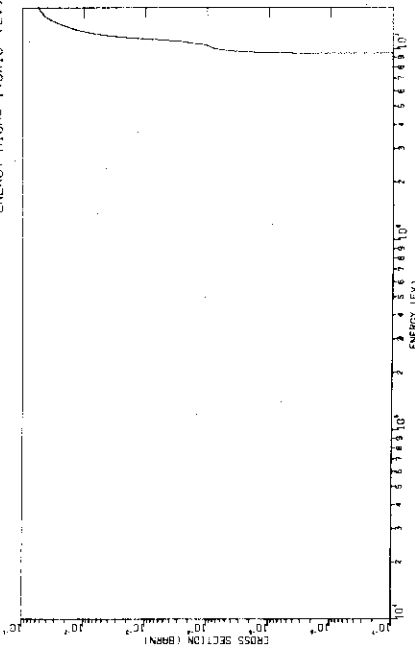
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 108

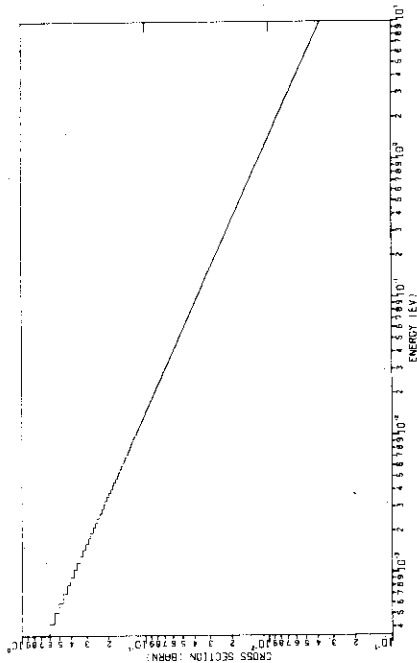
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 102

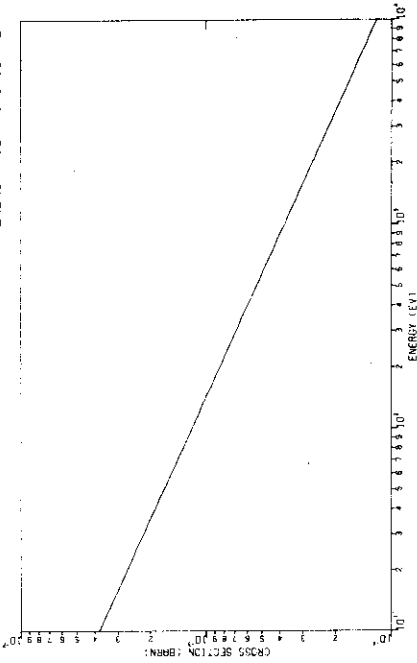
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 102

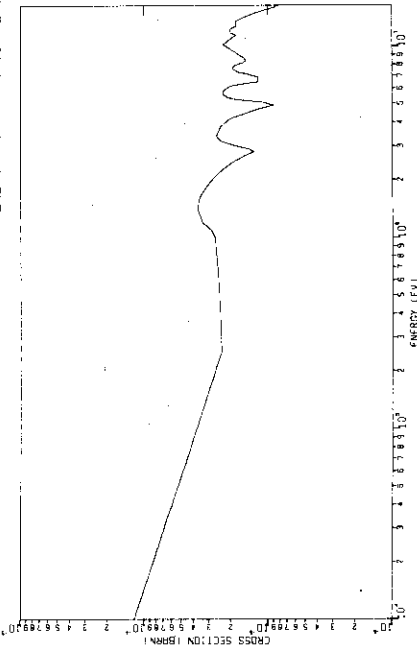
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 102

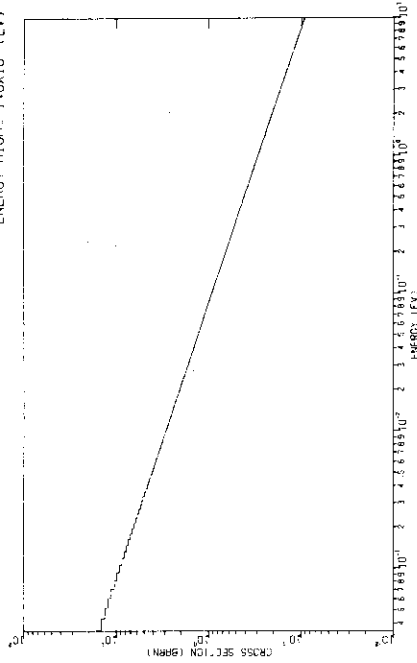
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 103

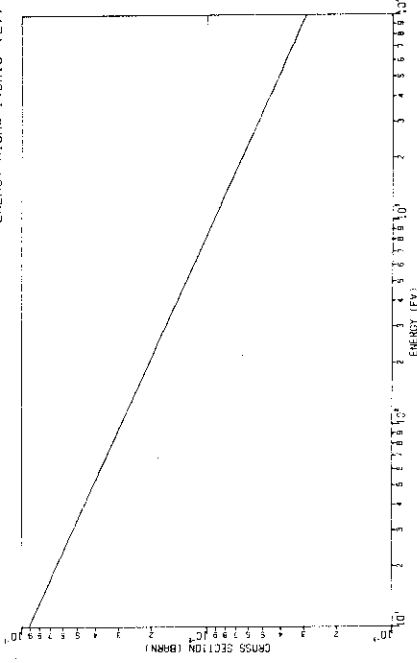
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 103

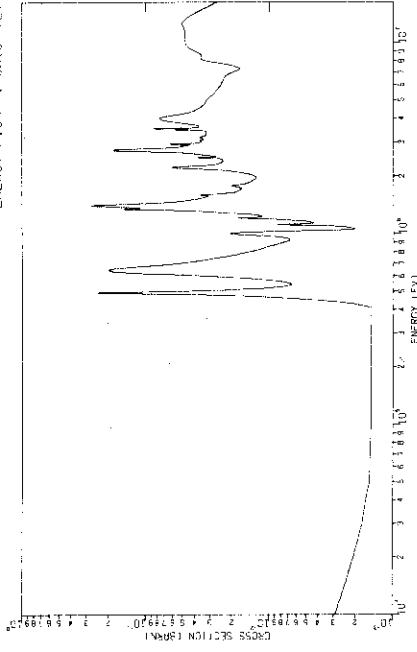
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1275 N-14 FROM ENDF/B-IV

REACTION TYPE = 103

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



**16 O**  
**8**  
**1276**

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1276 0-16 FROM ENDF/B-IV ( 300K )

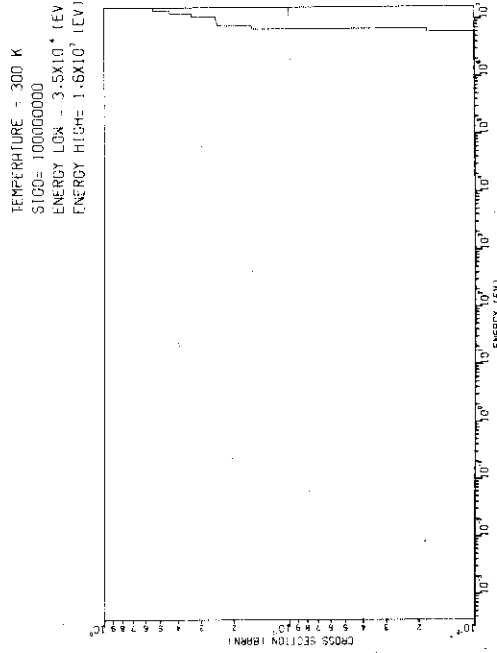
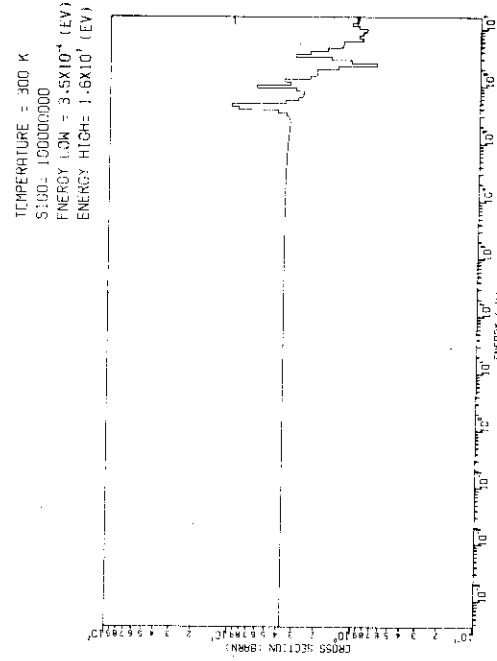
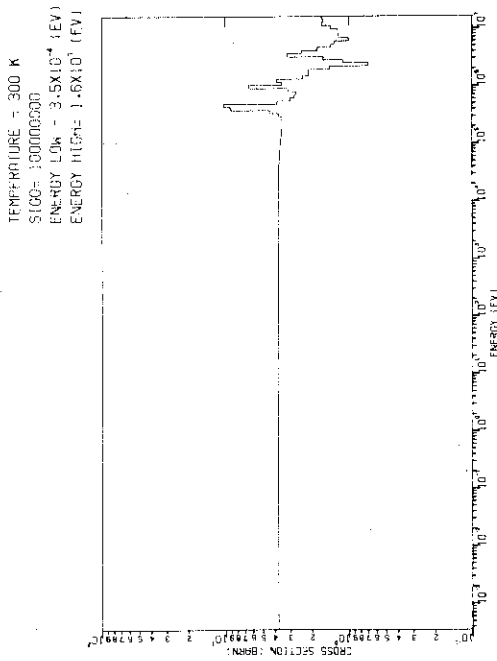
TOTAL

1276 0-16 FROM ENDF/B-IV ( 300K )

ELRS

1276 0-16 FROM ENDF/B-IV ( 300K )

INELMS



1276 0-16 FROM ENDF/B-IV ( 300K )

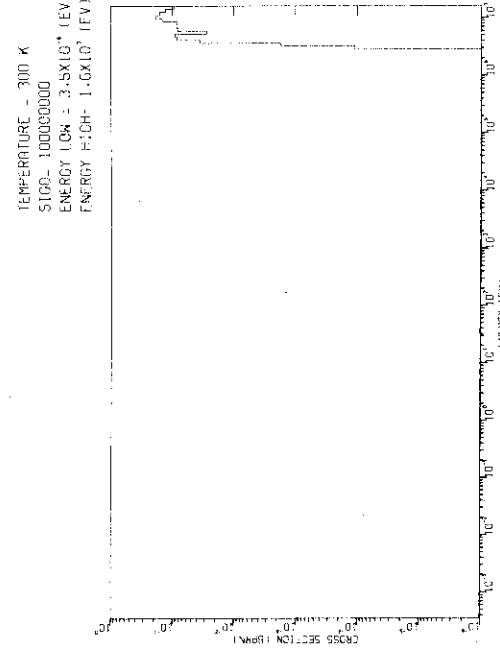
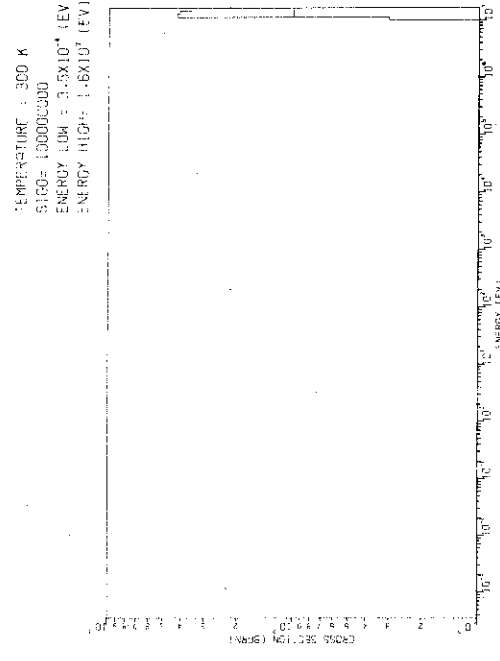
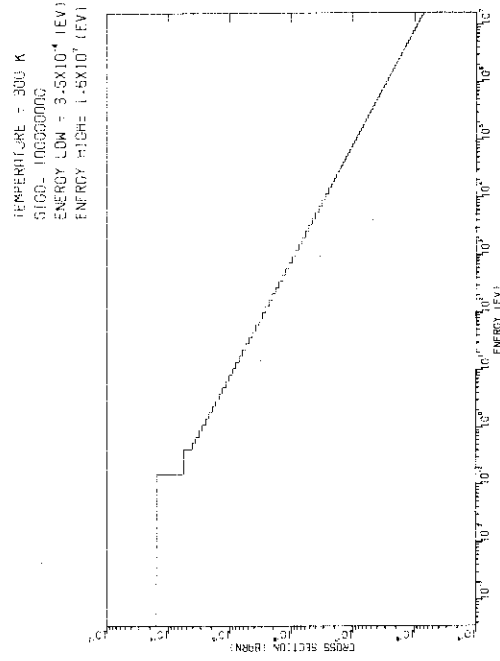
IN-GT

1276 0-16 FROM ENDF/B-IV ( 300K )

IN-P

1276 0-16 FROM ENDF/B-IV ( 300K )

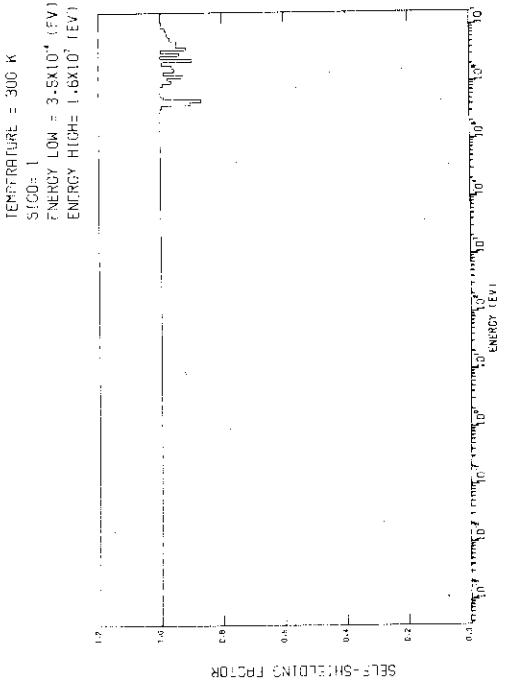
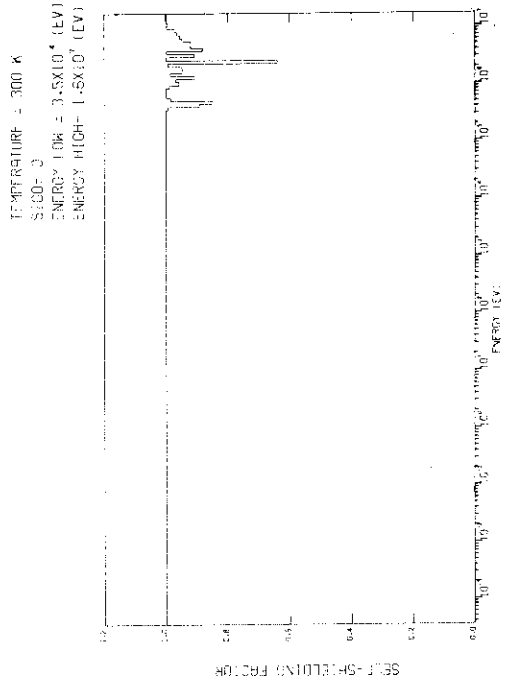
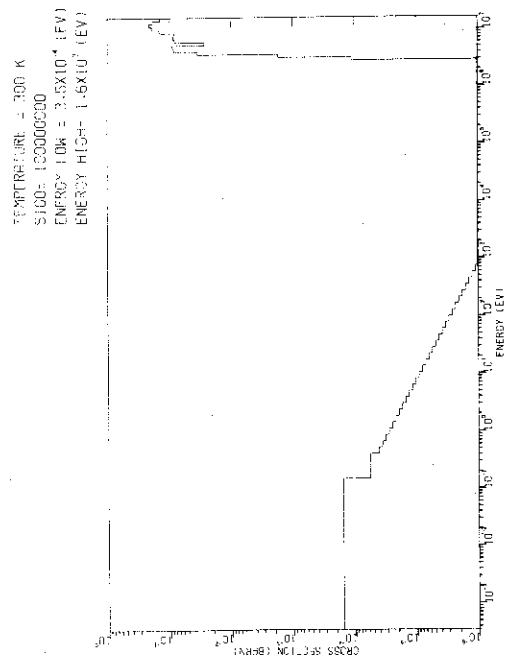
IN-A



1276 C-16 FROM ENDF/B-IV ( 300K )

1276 O-16 FROM ENDF/B-IV ( 300K )

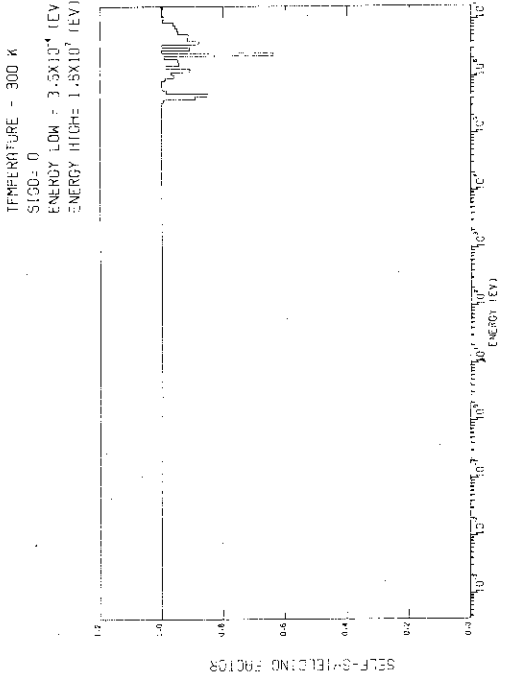
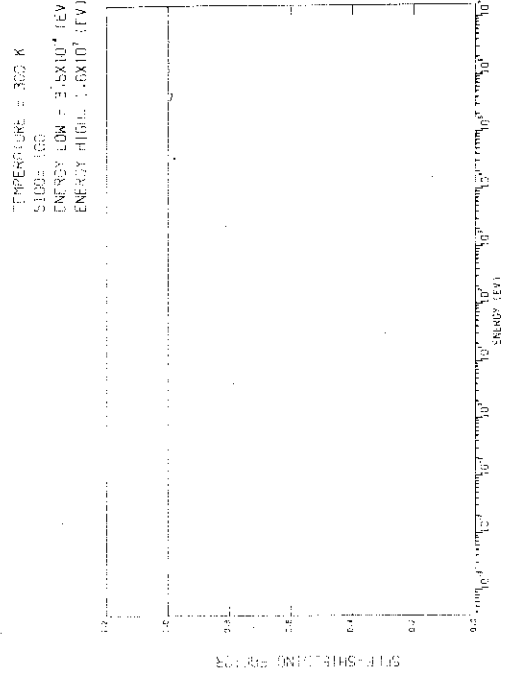
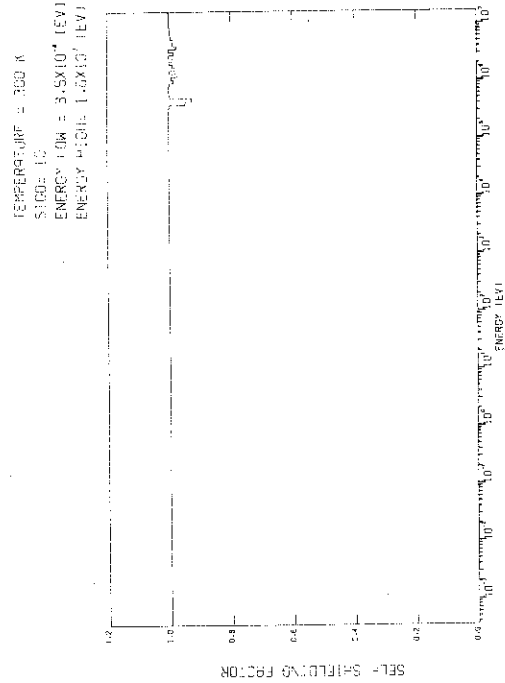
1276 O-16 FROM ENDF/B-IV ( 300K ) TOTAL



1276 O-16 FROM ENDF/B-IV ( 300K )

1276 O-16 FROM ENDF/B-IV ( 300K ) TOTAL

1276 O-16 FROM ENDF/B-IV ( 300K ) ELRS

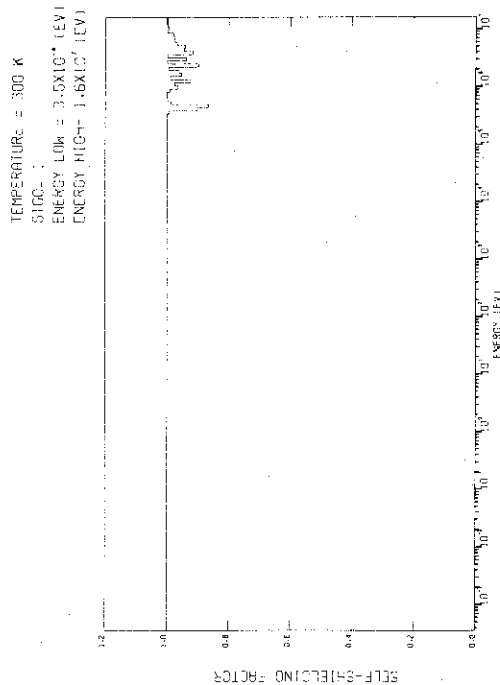


16 O  
8  
1276

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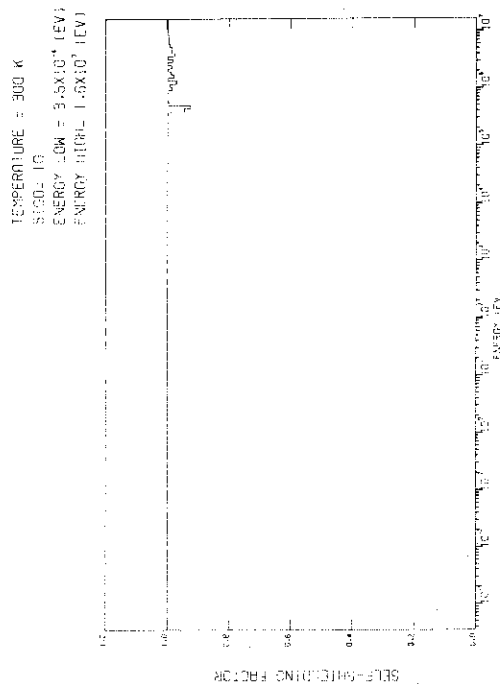
1276 O-16 FROM ENDF/B-IV (300K)

ELPS



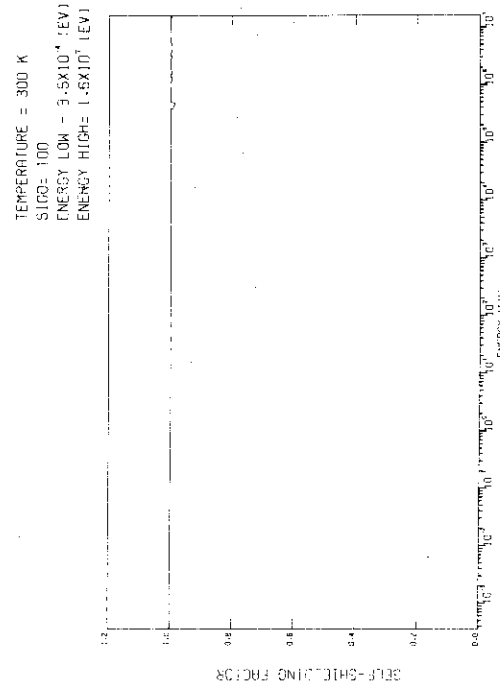
1276 O-16 FROM ENDF/B-IV (300K)

ELDS



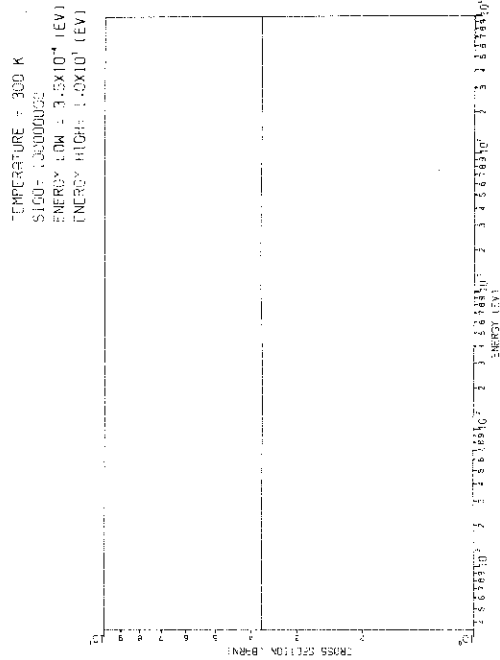
1276 O-16 FROM ENDF/B-IV (300K)

ELRS



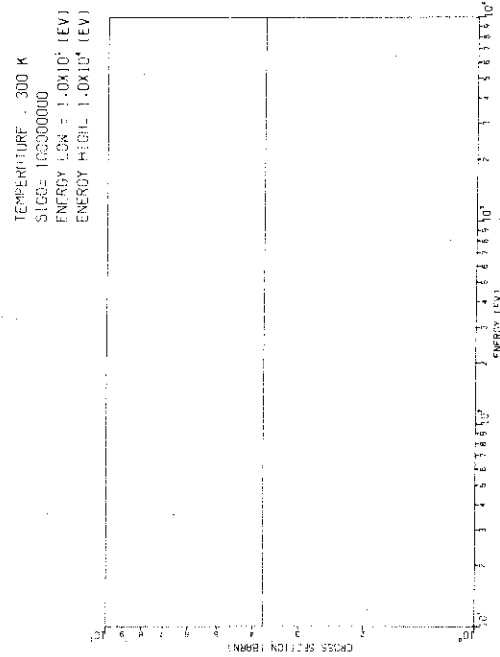
1276 O-16 FROM ENDF/B-IV

REACTION TYPE = 1



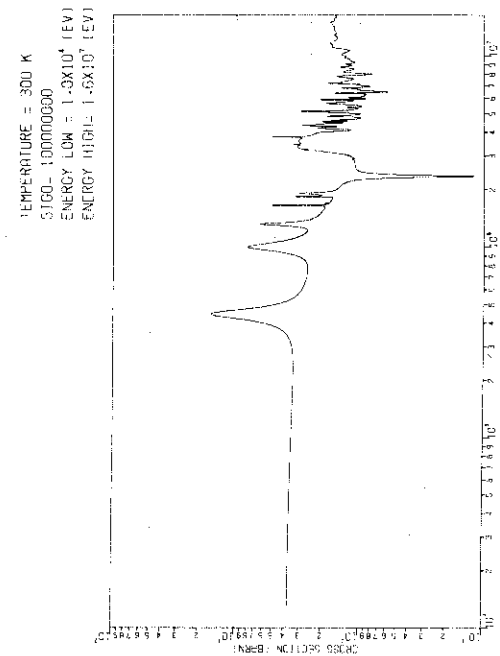
1276 O-16 FROM ENDF/B-IV

REACTION TYPE = 1



1276 O-16 FROM ENDF/B-IV

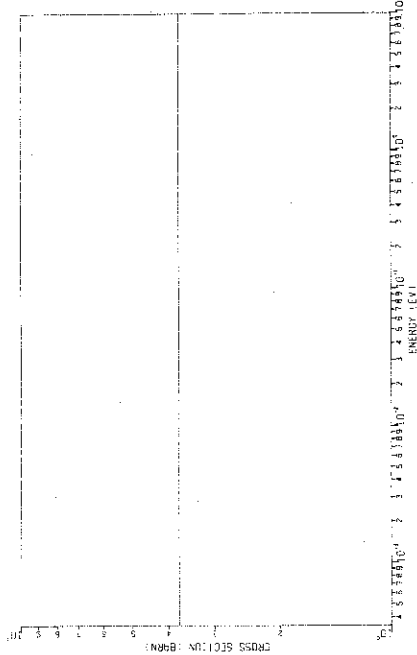
REACTION TYPE = 1



1276 0-15 FROM ENDF/B-V

REACTION TYPE = 2

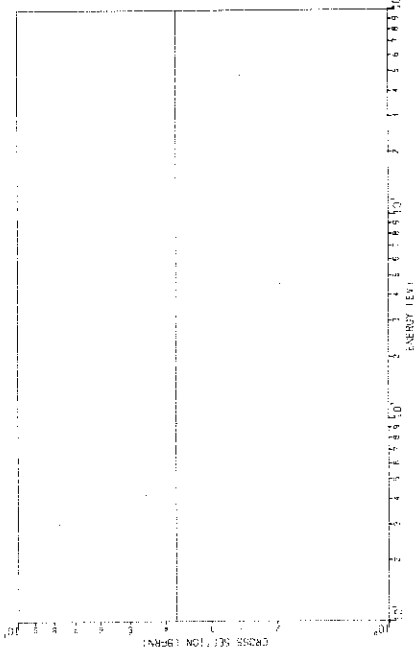
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1276 0-16 FROM ENDF/B-V

REACTION TYPE = 2

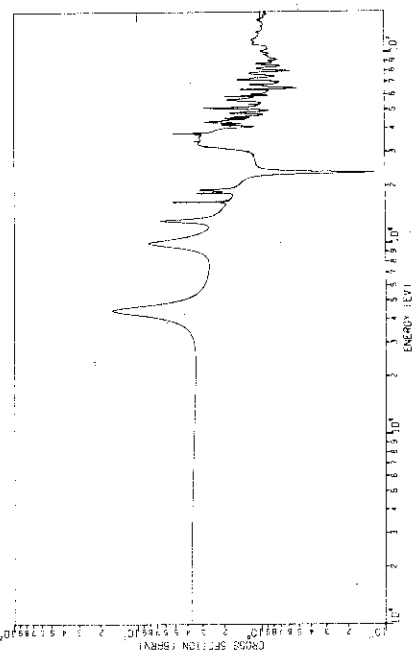
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1276 0-16 FROM ENDF/B-V

REACTION TYPE = 2

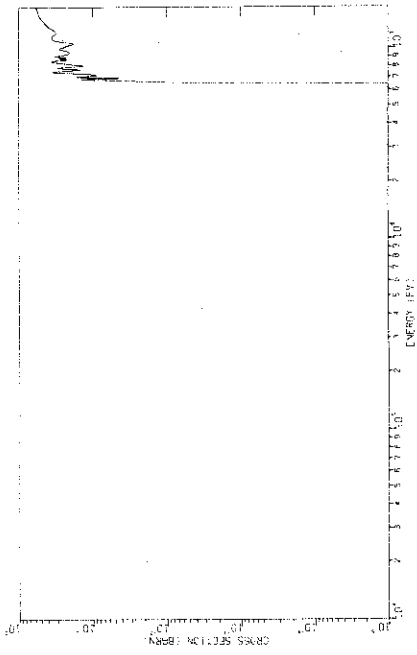
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1276 0-16 FROM ENDF/B-V

REACTION TYPE = 4

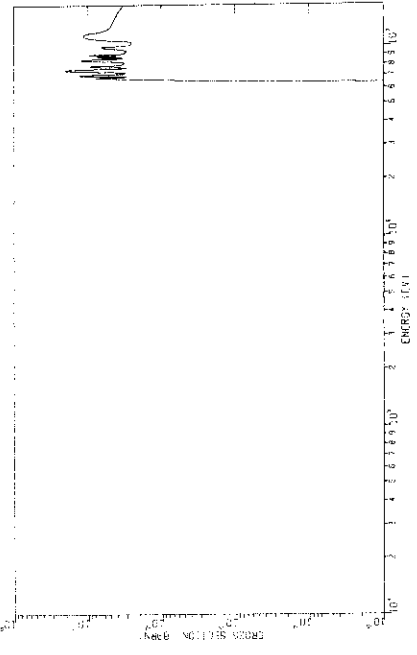
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1276 0-16 FROM ENDF/B-V

REACTION TYPE = 5

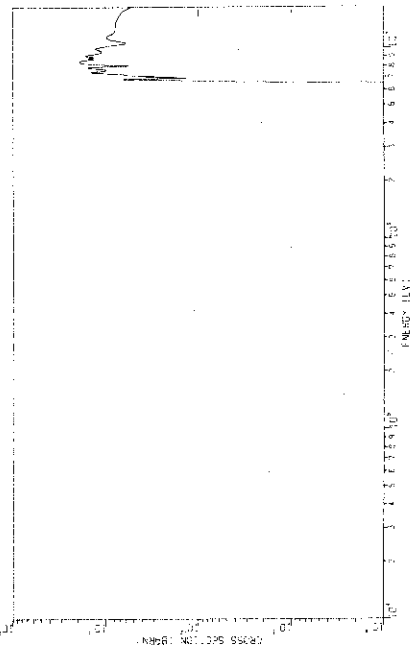
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1276 0-16 FROM ENDF/B-V

REACTION TYPE = 52

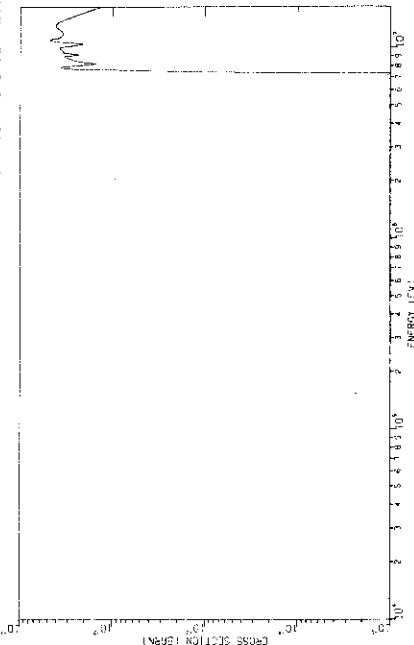
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1276 0-15 FROM ENDF/B-IV

REACTION TYPE = 53

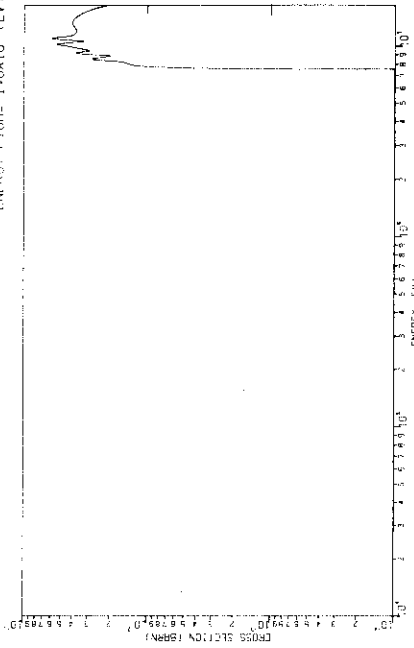
TEMPERATURE = 300 K  
SIGCO = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1276 0-16 FROM ENDF/B-IV

REACTION TYPE = 54

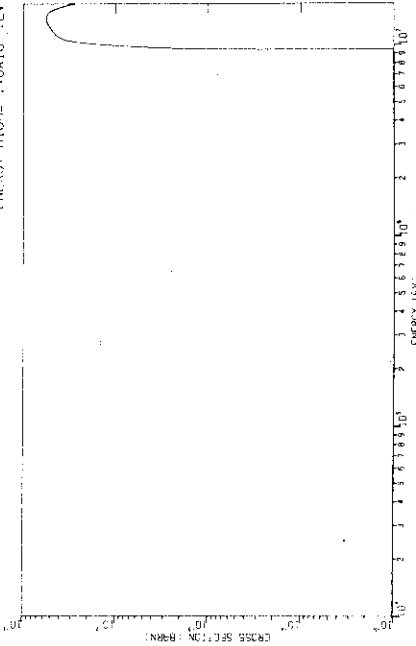
TEMPERATURE = 300 K  
SIGCO = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1276 0-16 FROM ENDF/B-IV

REACTION TYPE = 55

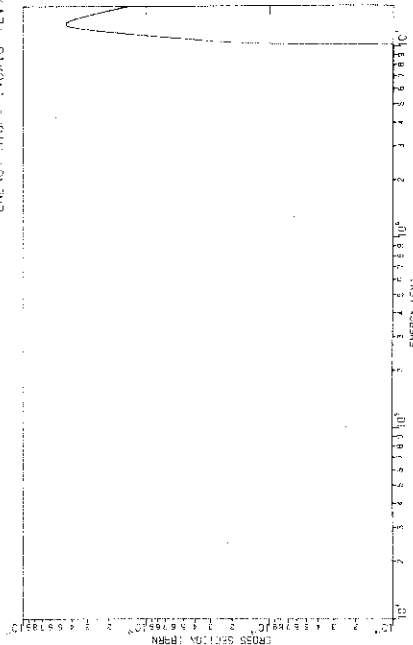
TEMPERATURE = 300 K  
SIGCO = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1276 0-16 FROM ENDF/B-IV

REACTION TYPE = 56

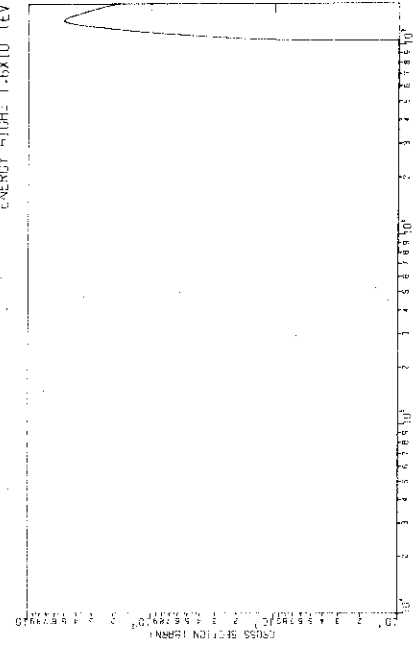
TEMPERATURE = 300 K  
SIGCO = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1276 0-16 FROM ENDF/B-IV

REACTION TYPE = 57

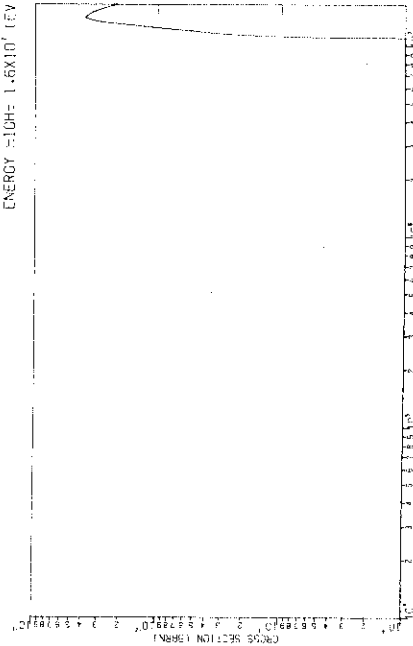
TEMPERATURE = 300 K  
SIGCO = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1276 0-16 FROM ENDF/B-IV

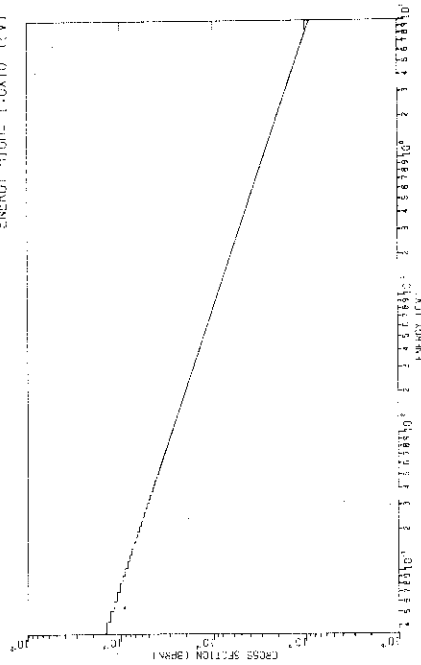
REACTION TYPE = 58

TEMPERATURE = 300 K  
SIGCO = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



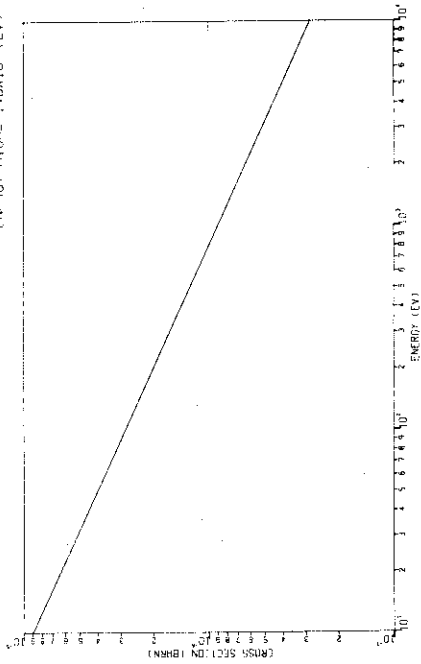
1276 0-15 FROM ENDF/B IV REACTION TYPE = 102

TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



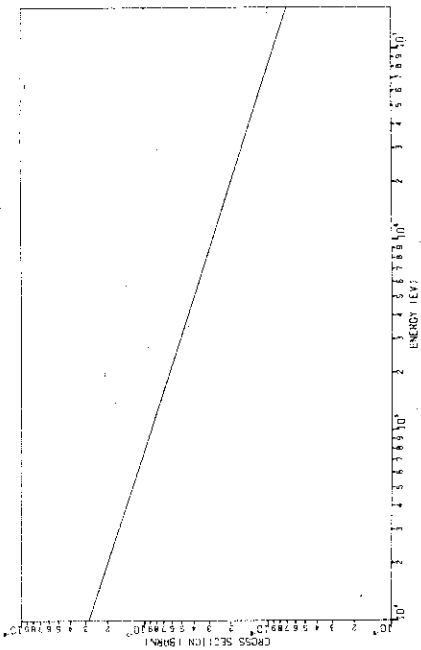
1276 0-15 FROM ENDF/B IV REACTION TYPE = 102

TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



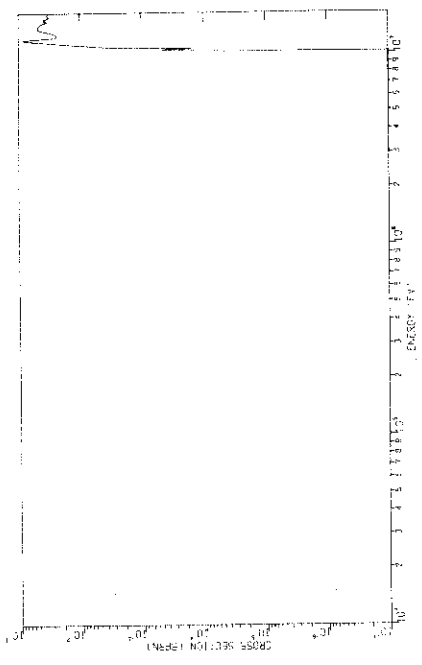
1276 0-16 FROM ENDF/B IV REACTION TYPE = 102

TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



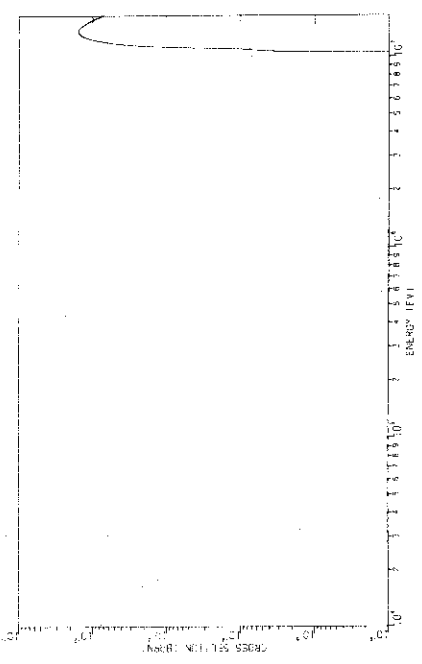
1276 0-16 FROM ENDF/B IV REACTION TYPE = 103

TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



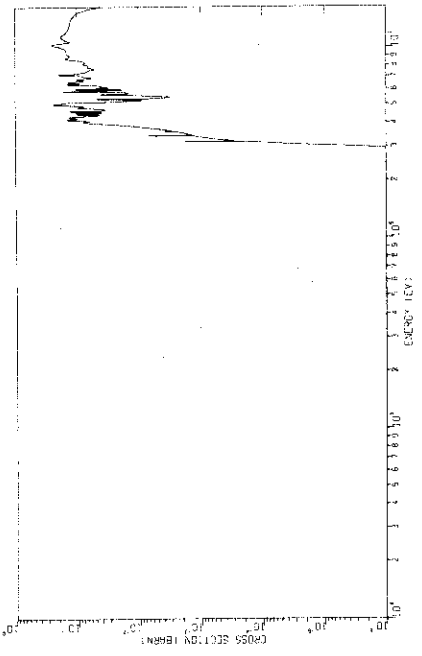
1276 0-15 FROM ENDF/B IV REACTION TYPE = 104

TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1276 0-16 FROM ENDF/B IV REACTION TYPE = 107

TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



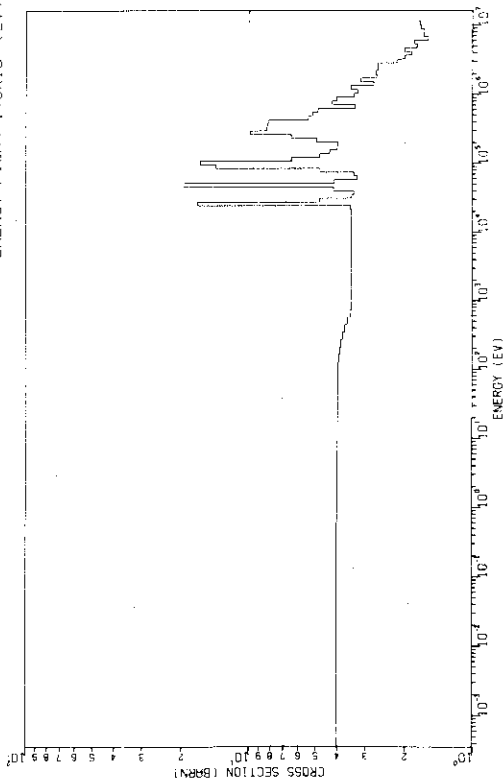


1277 F FROM ENDF/B-IV ( 300K )

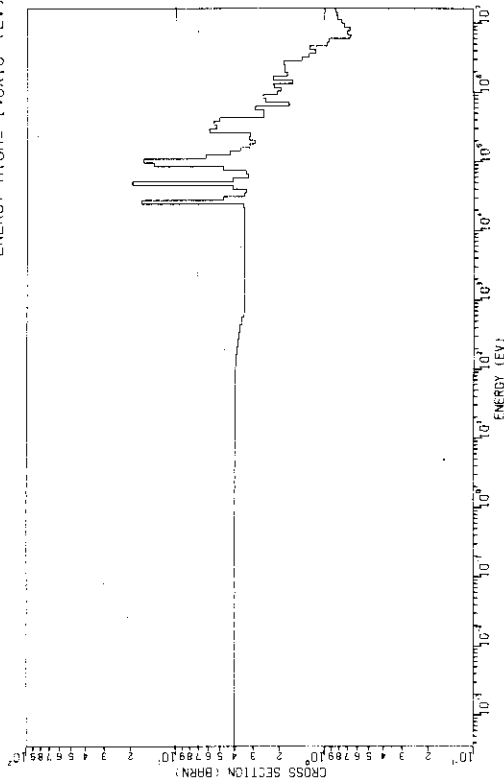
1277 F FROM ENDF/B-IV ( 300K )

FLAS

TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



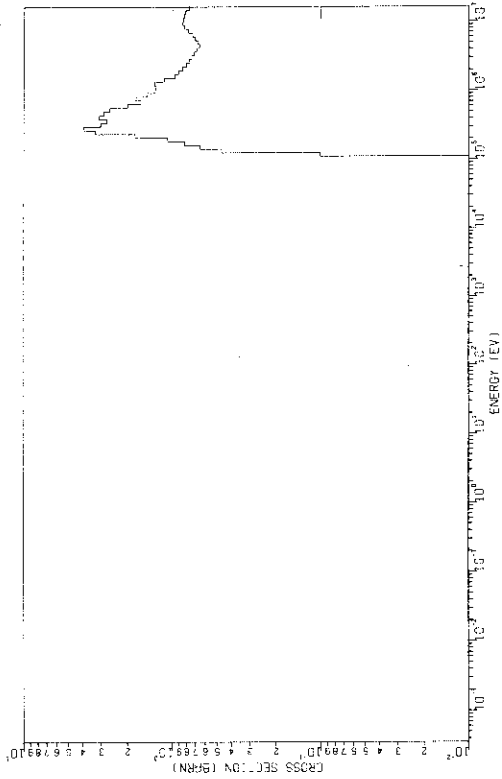
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



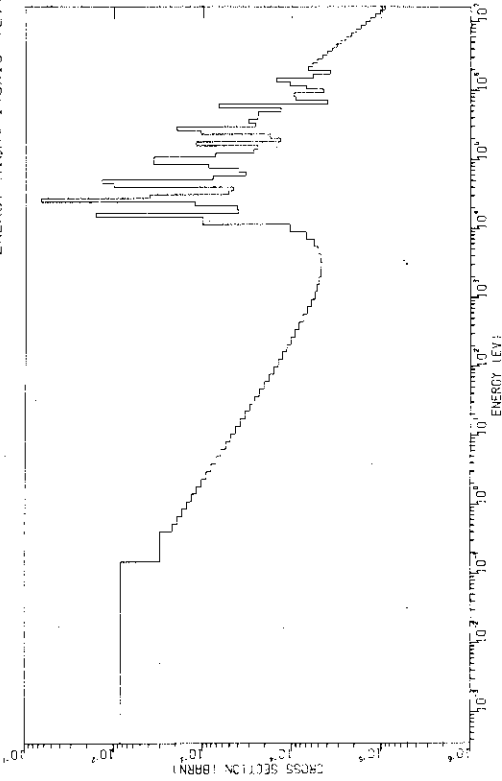
1277 F FROM ENDF/B-IV ( 300K )

INELAS

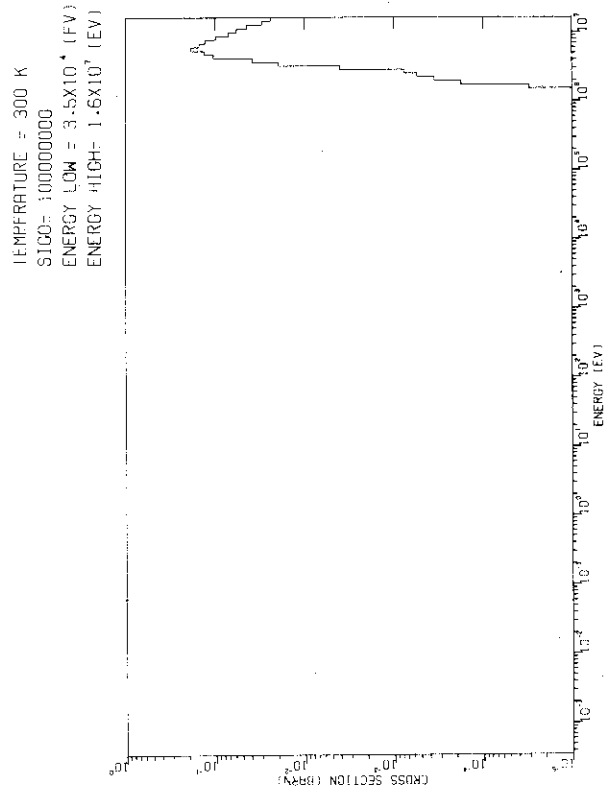
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



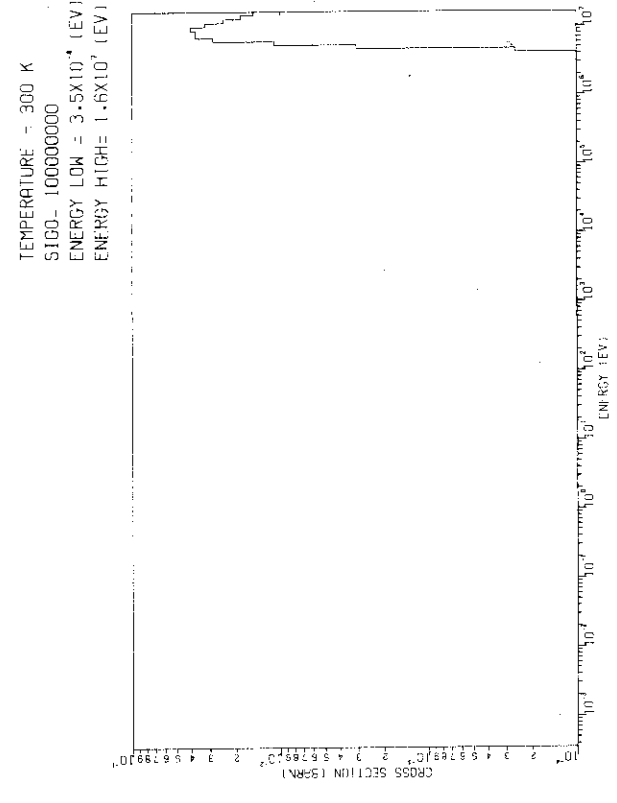
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



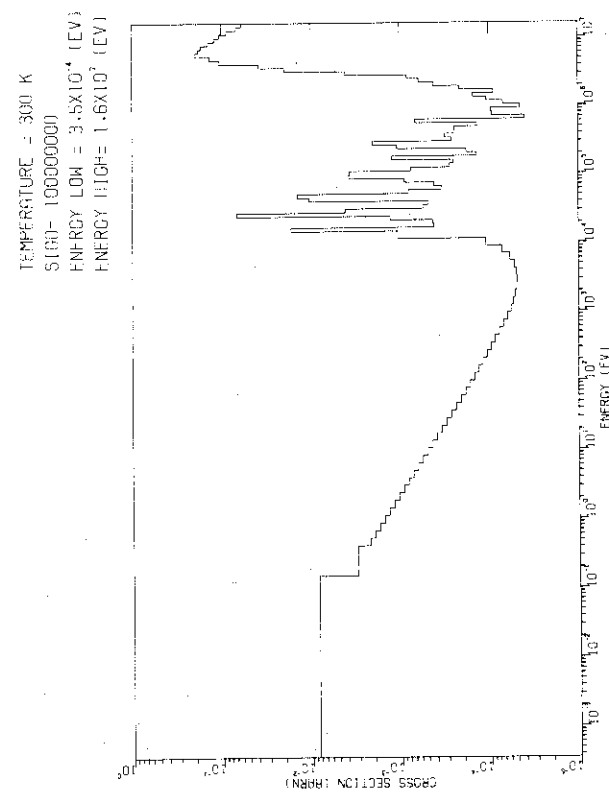
1277 F FROM ENDF/B-IV ( 300K ) (N.P.)



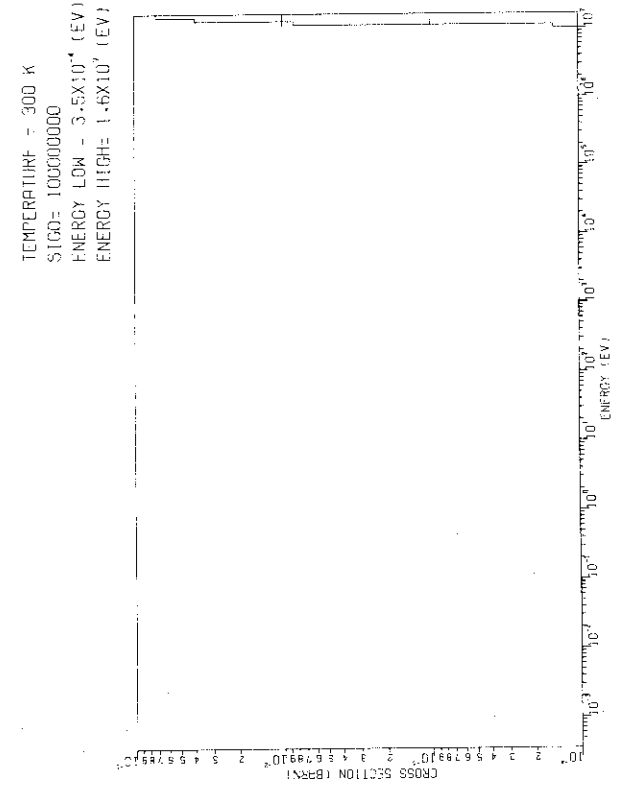
1277 F FROM ENDF/B-IV ( 300K ) (N.P.)



1277 F FROM ENDF/B-IV ( 300K ) CAPTURE



1277 F FROM ENDF/B-IV ( 300K ) (N.2N)



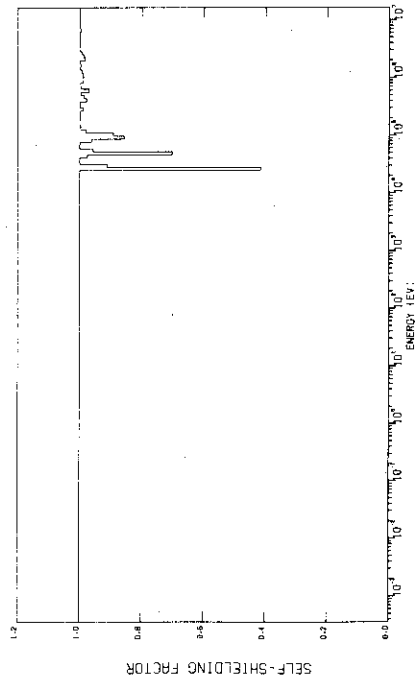
**<sup>19</sup>F**  
**9**  
**1277**

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1277 F FROM ENDF/B-IV ( 300K )

TOTAL

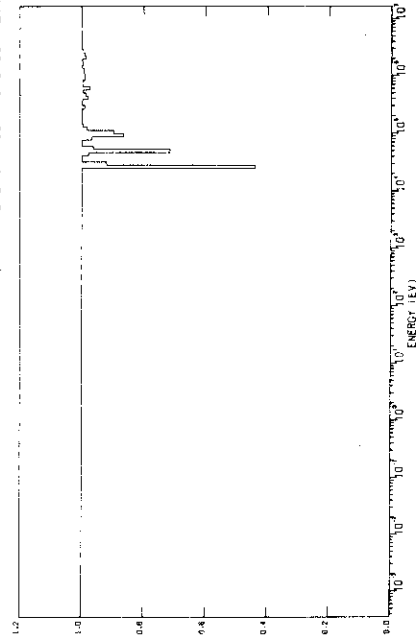
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

TOTAL

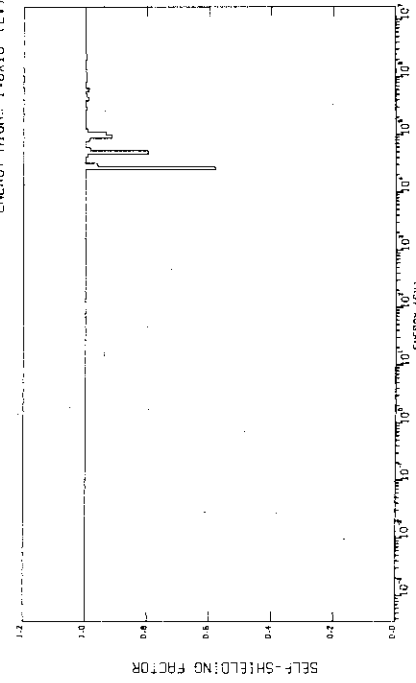
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

TOTAL

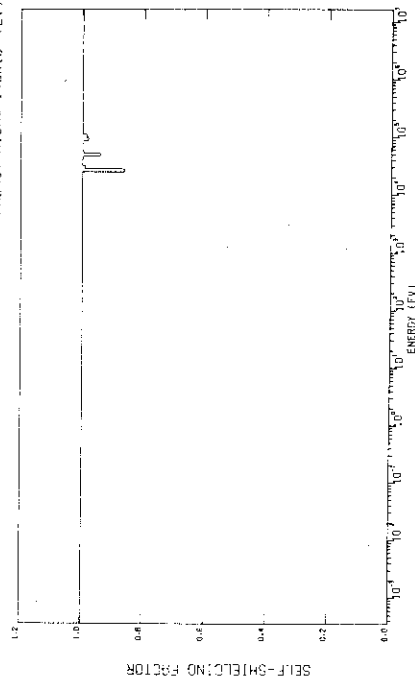
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

TOTAL

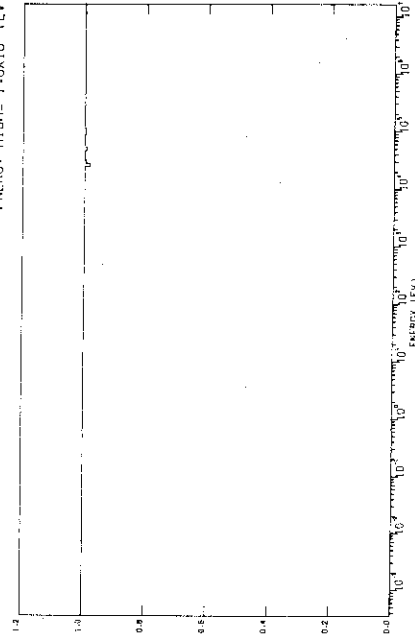
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

TOTAL

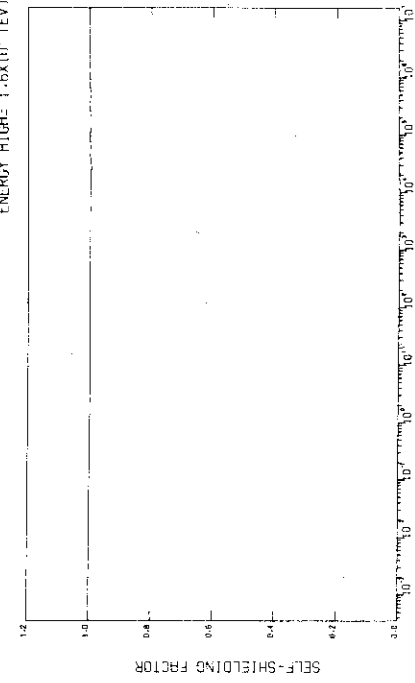
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

TOTAL

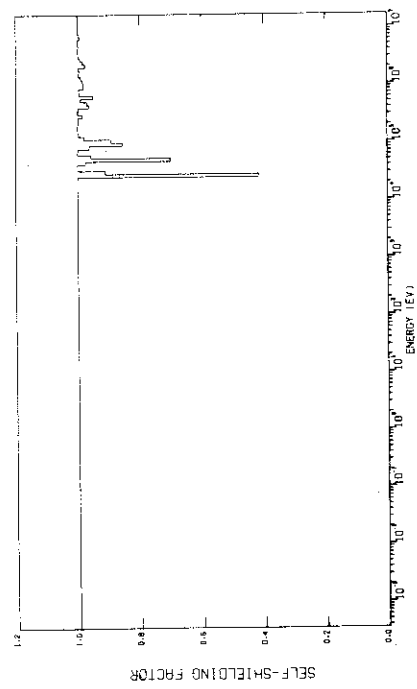
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

FLAS

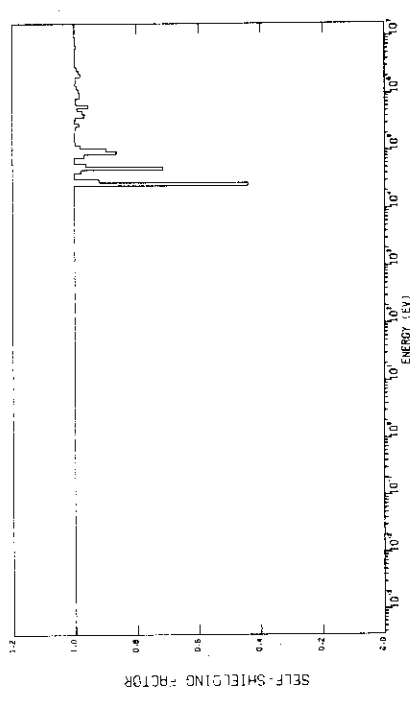
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

ELAS

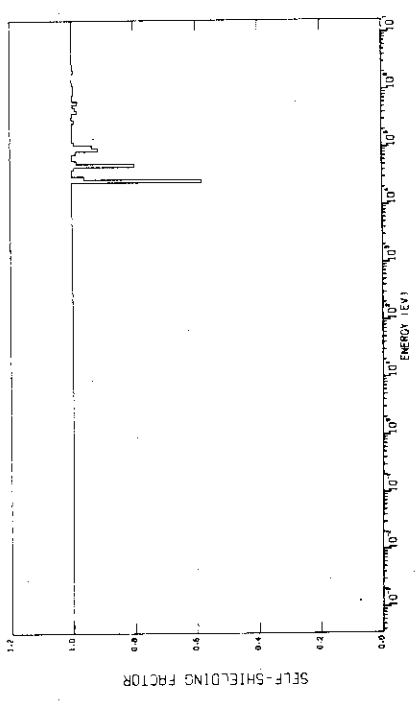
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

ELAS

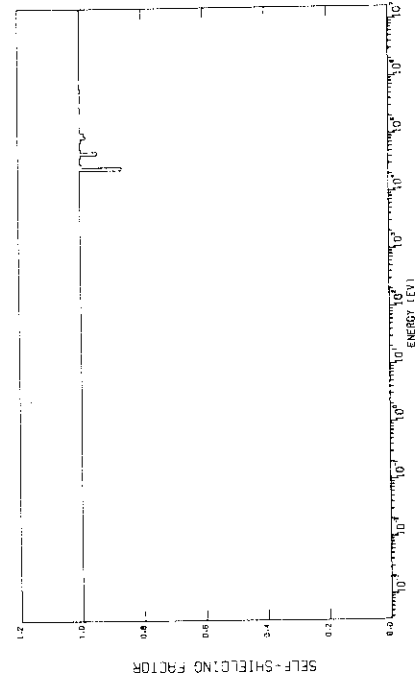
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

ELAS

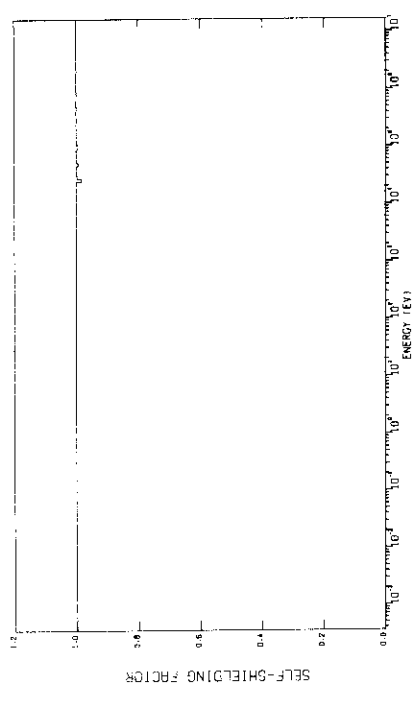
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

ELAS

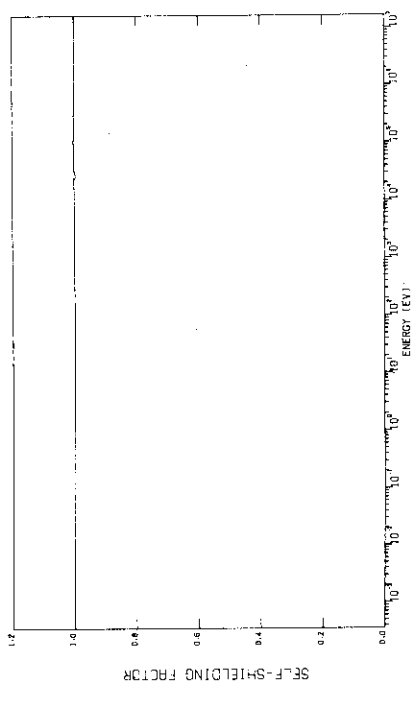
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



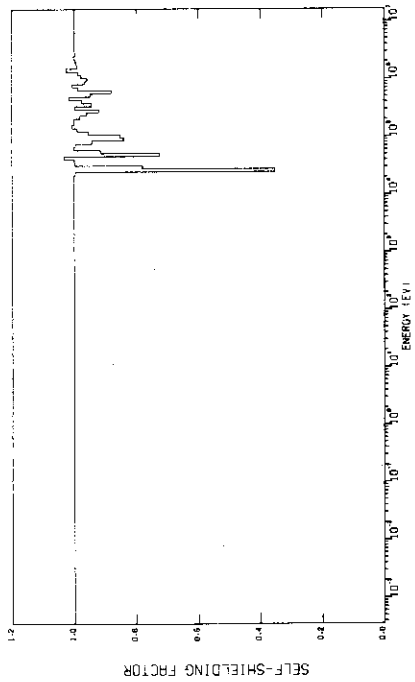
**<sup>19</sup>F**  
**1277**

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1277 F FROM ENDF/B-IV ( 300K )

CAPTURE

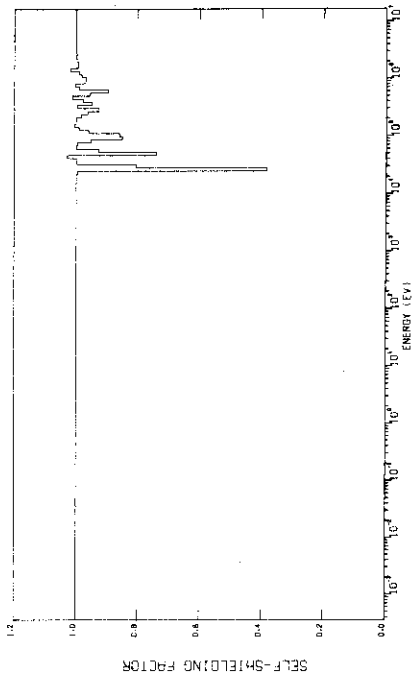
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

CAPTURE

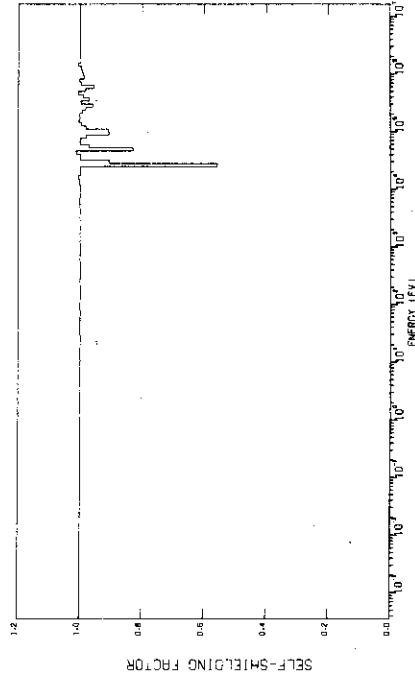
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

CAPTURE

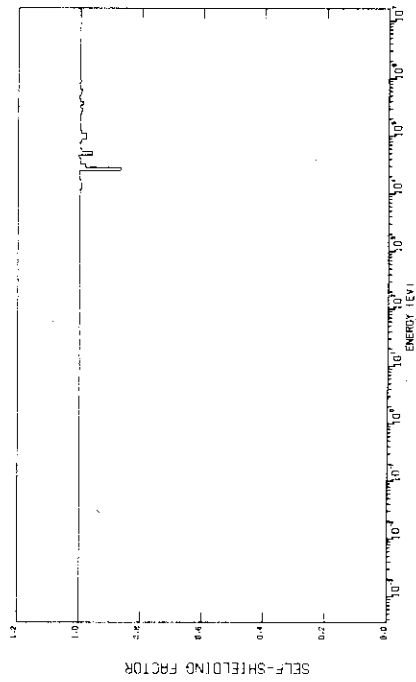
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

CAPTURE

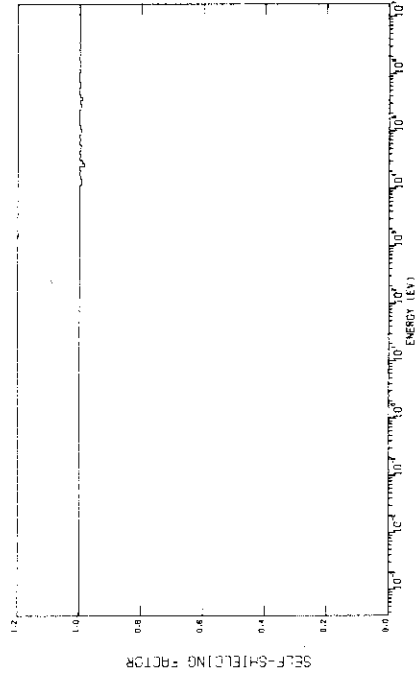
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

CAPTURE

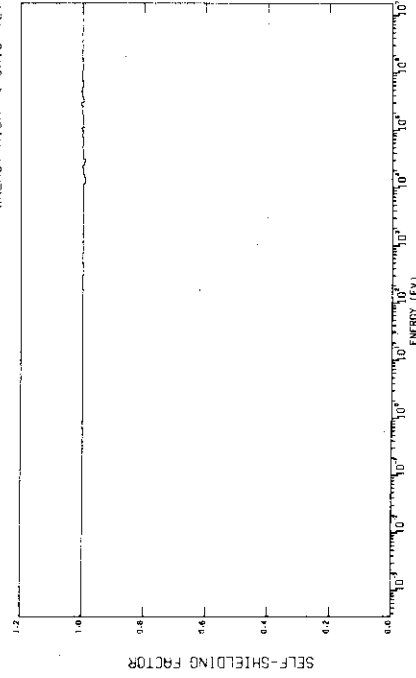
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV ( 300K )

CAPTURE

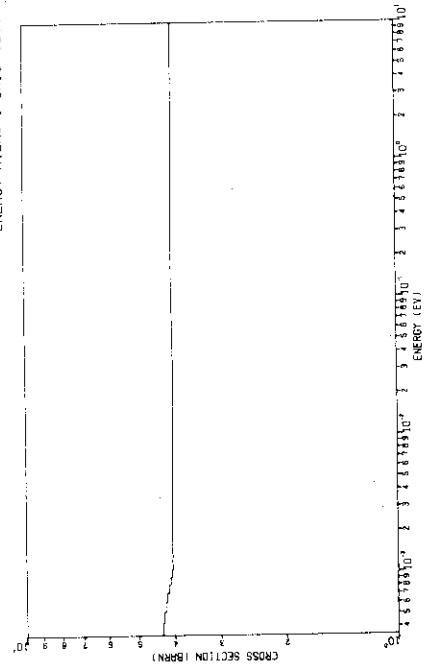
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-1V

REACTION TYPE = 1

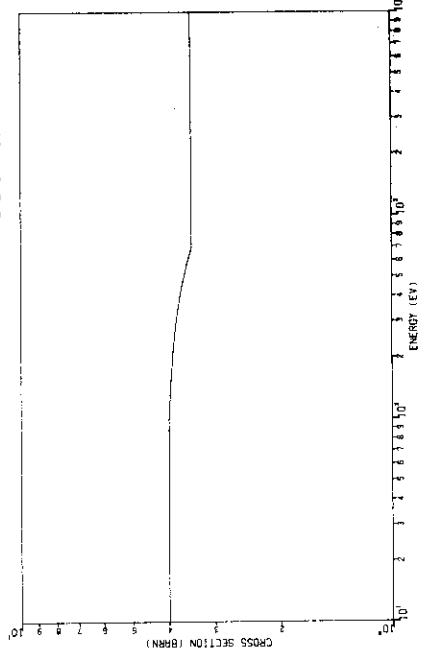
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1277 F FROM ENDF/B-1V

REACTION TYPE = 1

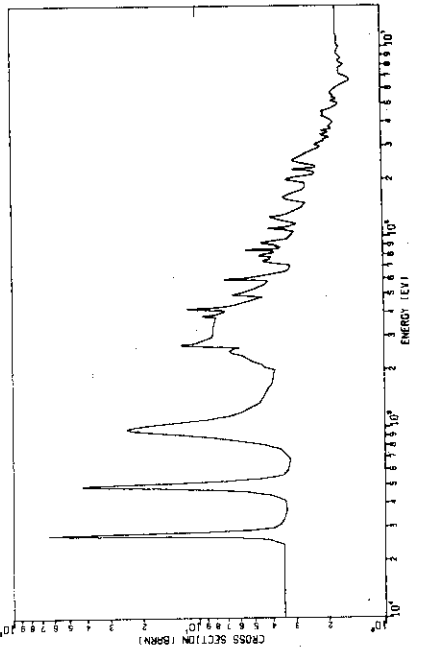
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1277 F FROM ENDF/B-1V

REACTION TYPE = 1

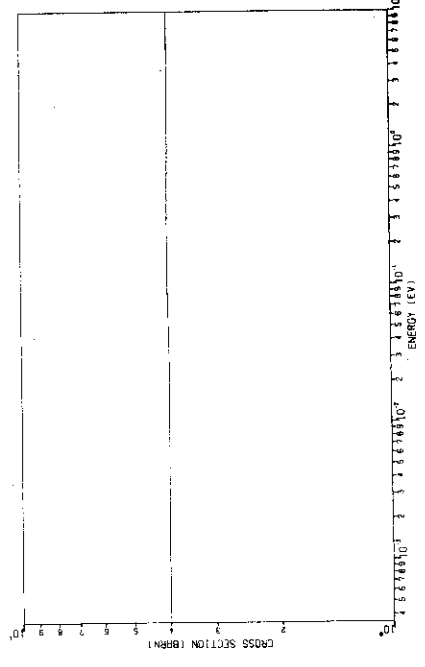
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-1V

REACTION TYPE = 2

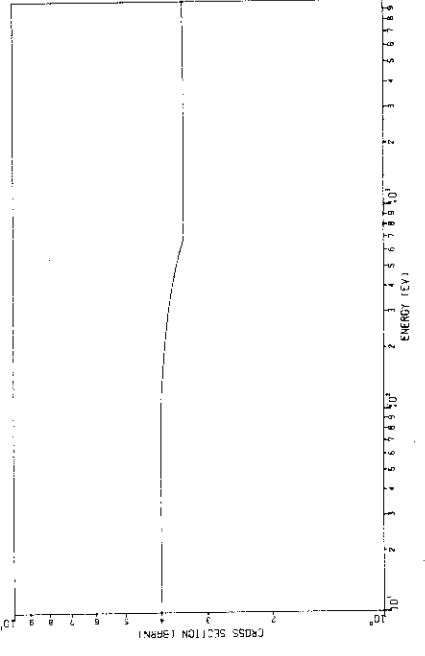
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1277 F FROM ENDF/B-1V

REACTION TYPE = 2

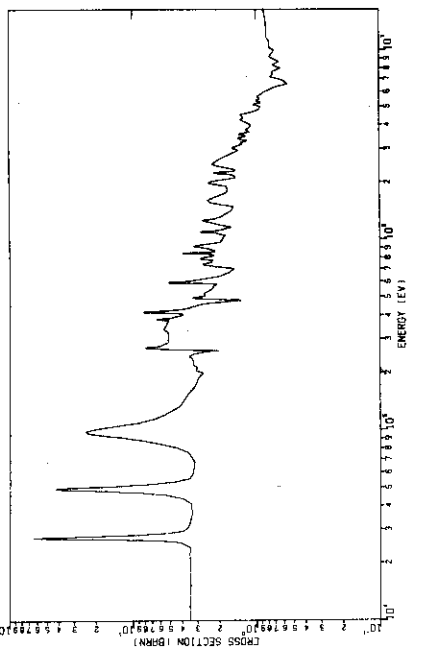
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1277 F FROM ENDF/B-1V

REACTION TYPE = 2

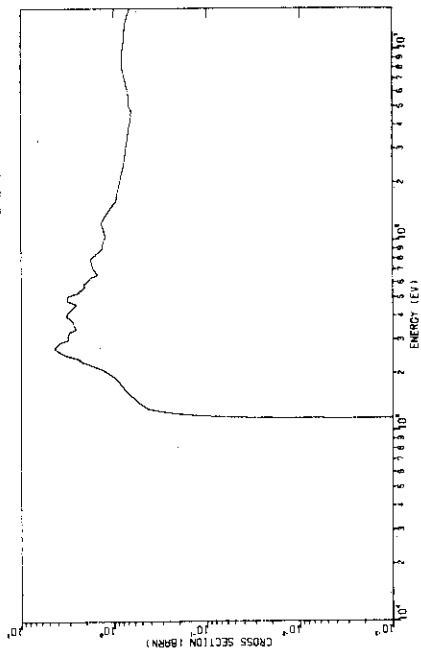
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 4

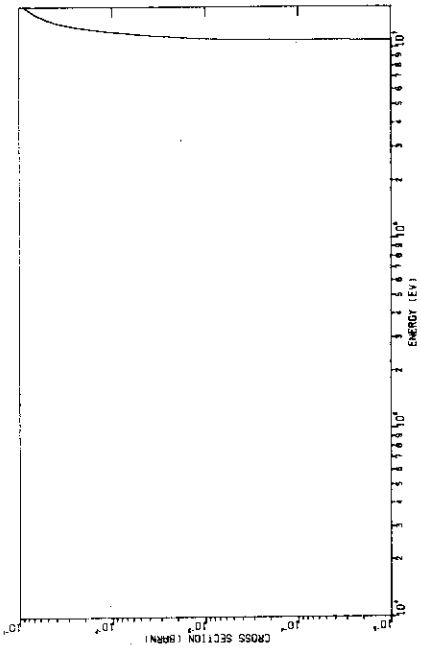
TEMPERATURE = 300 K  
 SIG0 = 100000000  
 ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
 ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 16

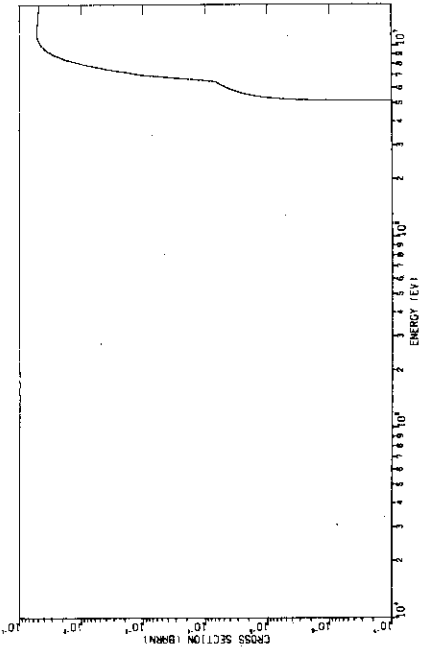
TEMPERATURE = 300 K  
 SIG0 = 100000000  
 ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
 ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 22

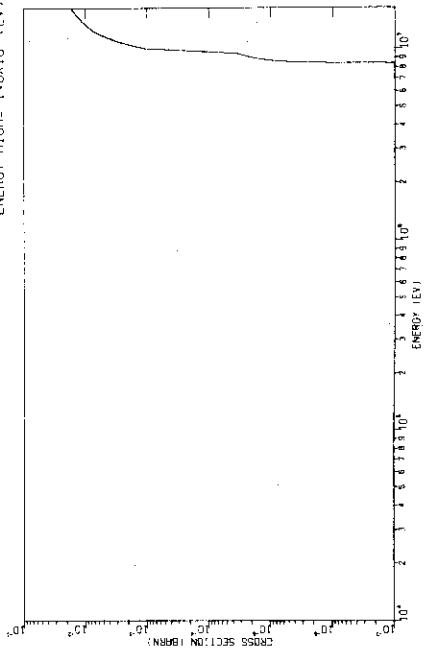
TEMPERATURE = 300 K  
 SIG0 = 100000000  
 ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
 ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 28

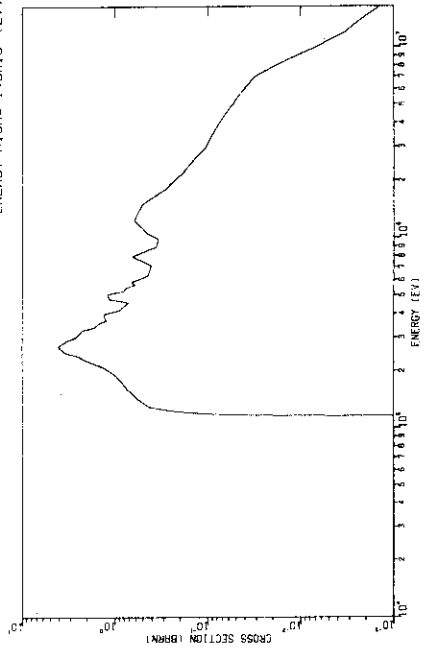
TEMPERATURE = 300 K  
 SIG0 = 100000000  
 ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
 ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 51

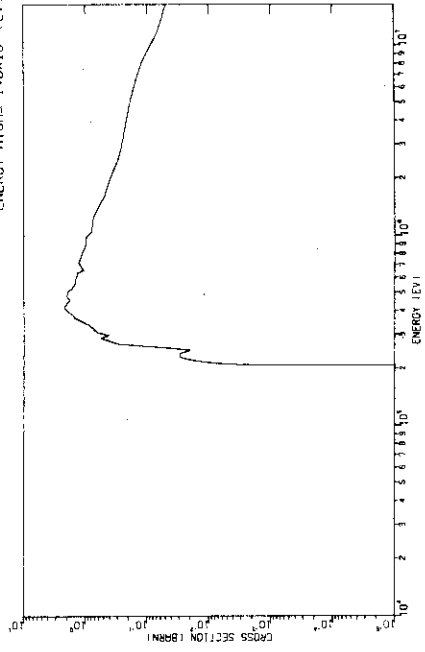
TEMPERATURE = 300 K  
 SIG0 = 100000000  
 ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
 ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 52

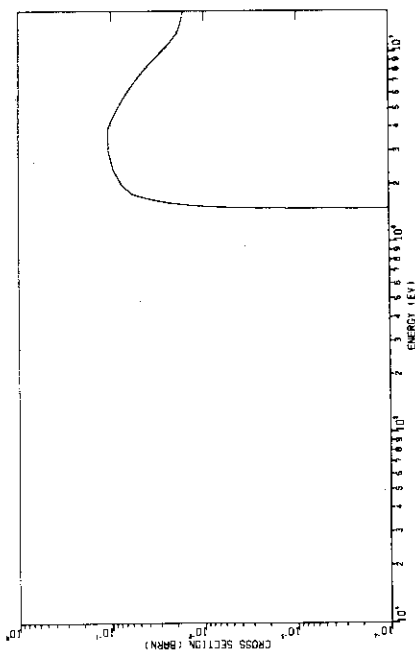
TEMPERATURE = 300 K  
 SIG0 = 100000000  
 ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
 ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277  $\Gamma$  FROM ENDF/B-IV

REACTION TYPE = 53

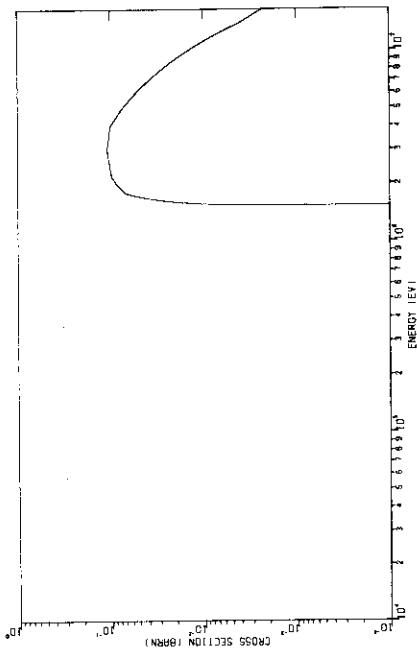
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 54

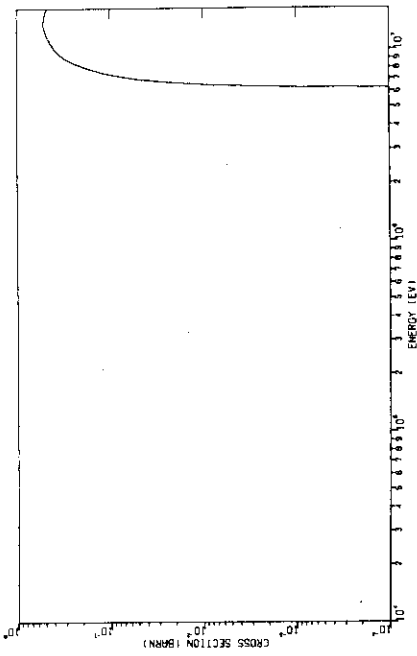
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 91

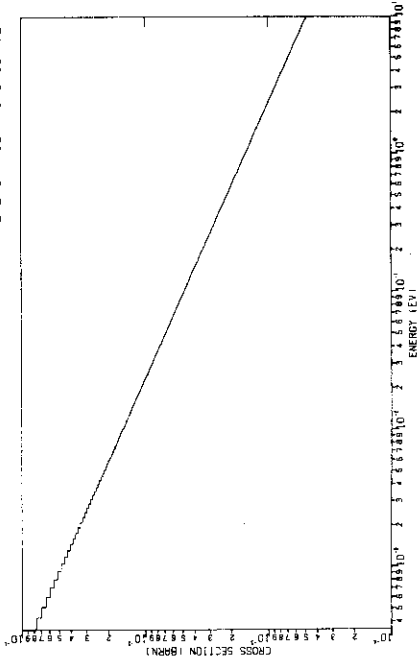
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 102

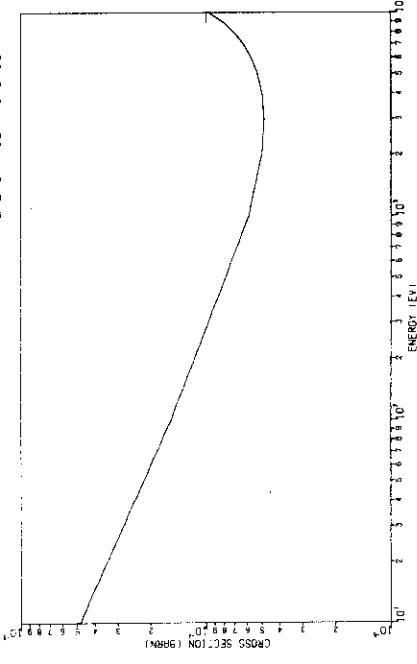
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 102

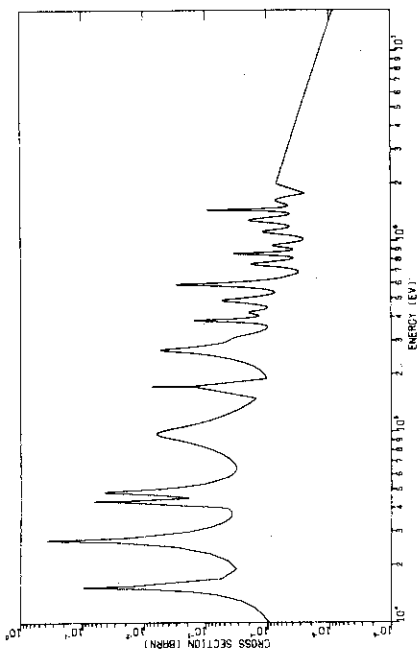
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

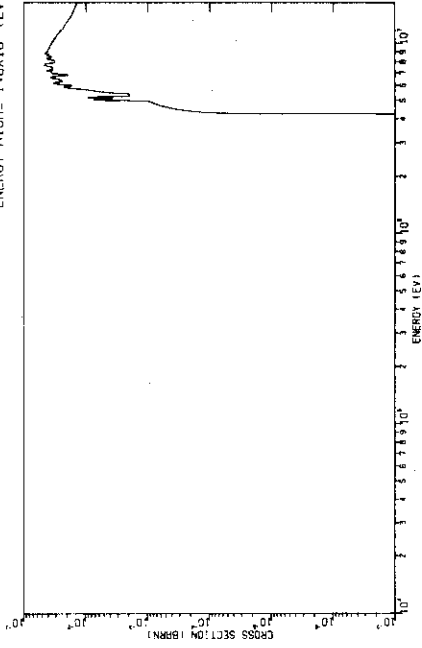




1277 F FROM ENDF/B-IV

REACTION TYPE = 103

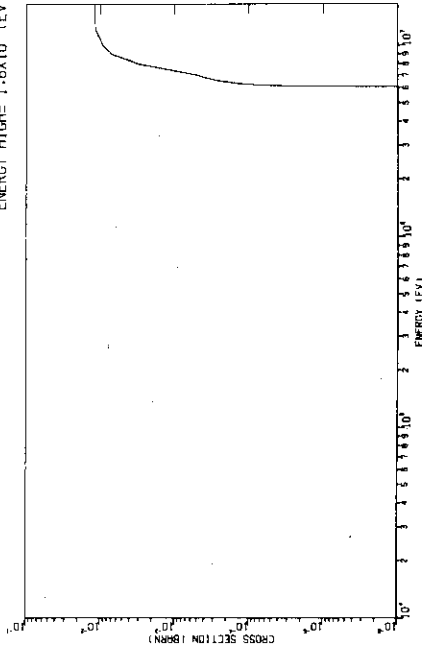
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 104

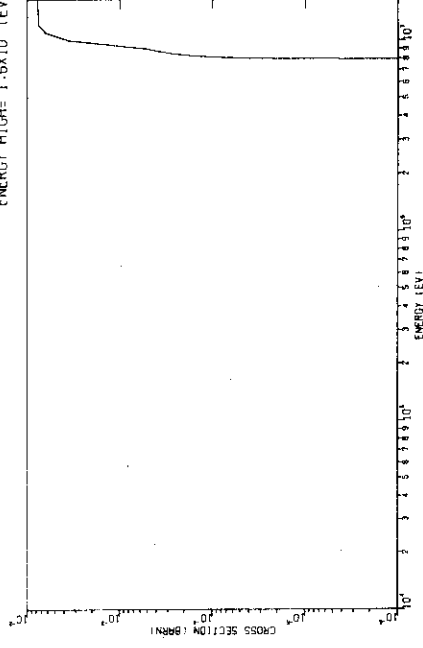
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 105

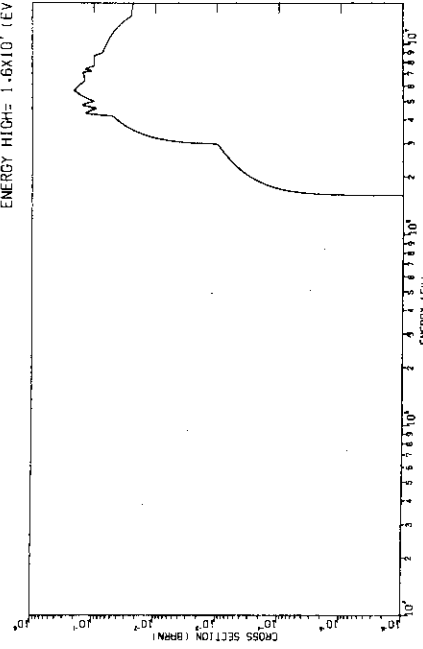
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1277 F FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

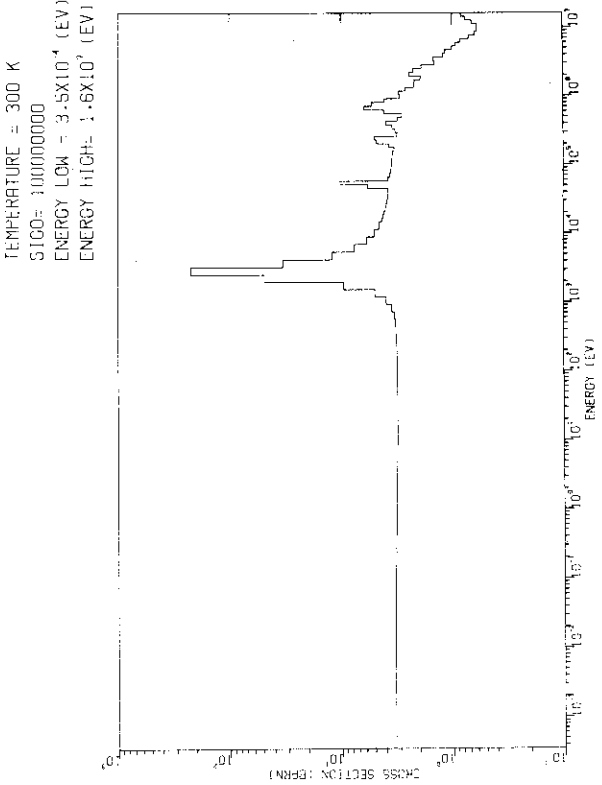
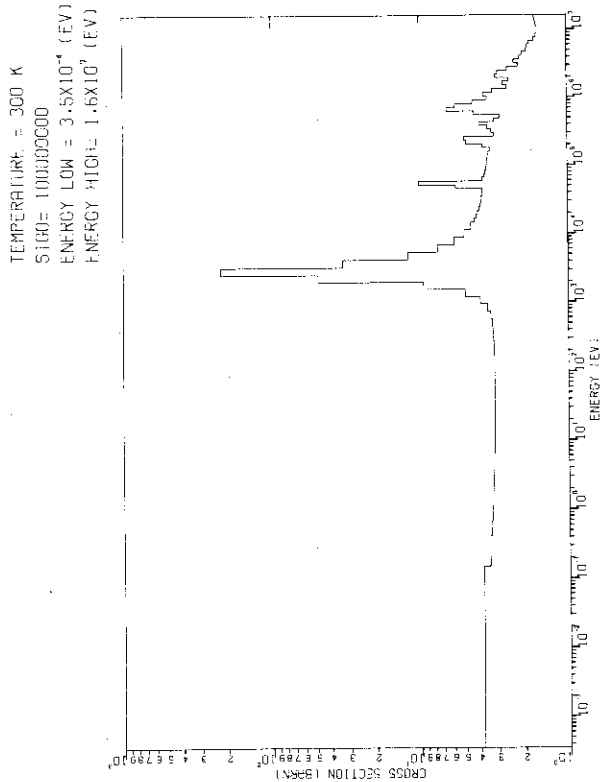


1156 NR-23 FROM FNJF/B-IV ( 300K )

1156 NR-23 FROM ENDF/B-IV ( 300K )

EI AS

TOTAL

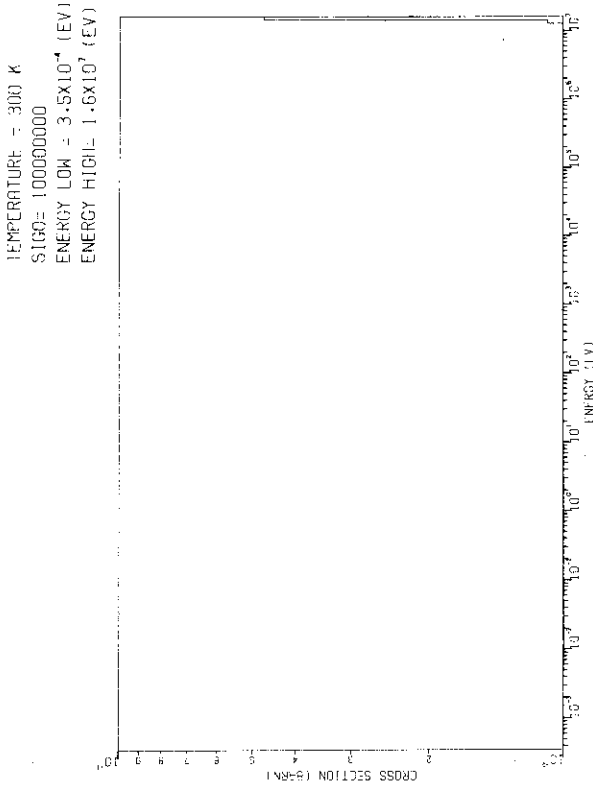
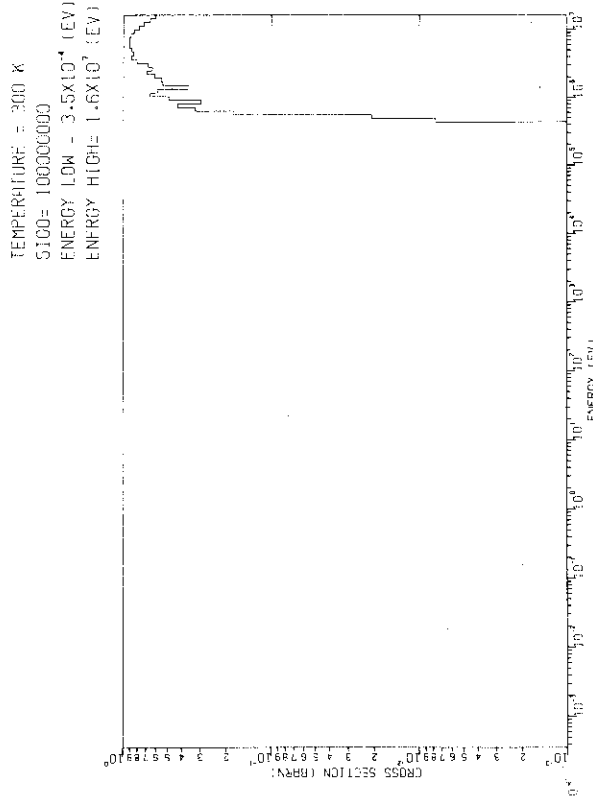


1156 NR-23 FROM FNJF/B-IV ( 300K )

INELRS

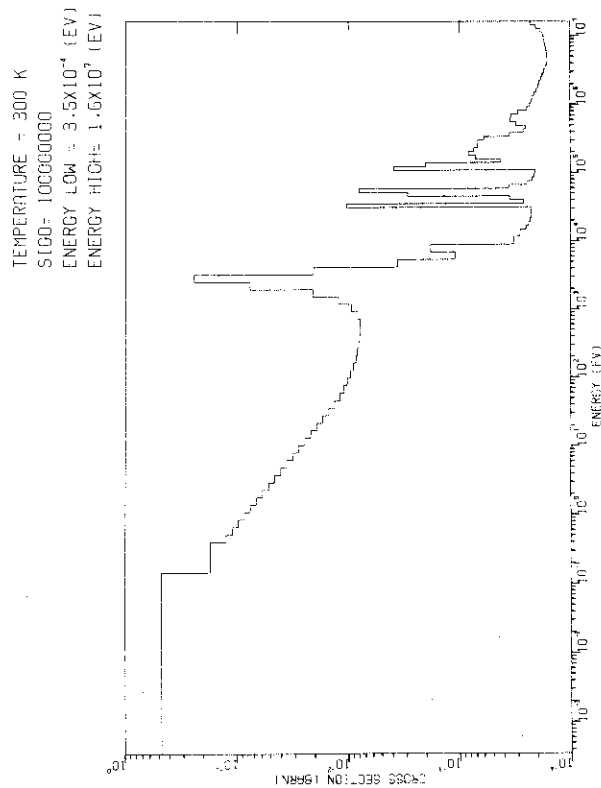
1156 NR-23 FROM ENDF/B-IV ( 300K )

(N,2N)



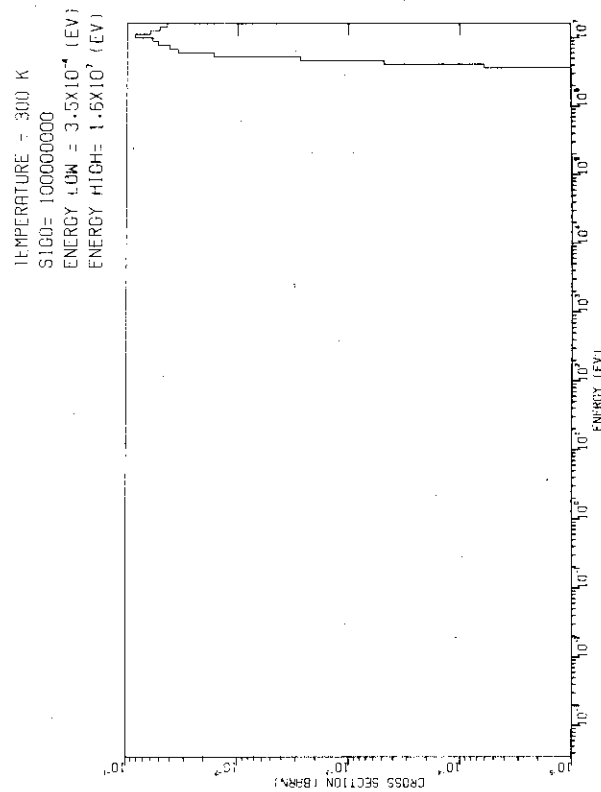
1:55 NR-23 FROM ENDG/B-IV ( 300K )

( N,G )



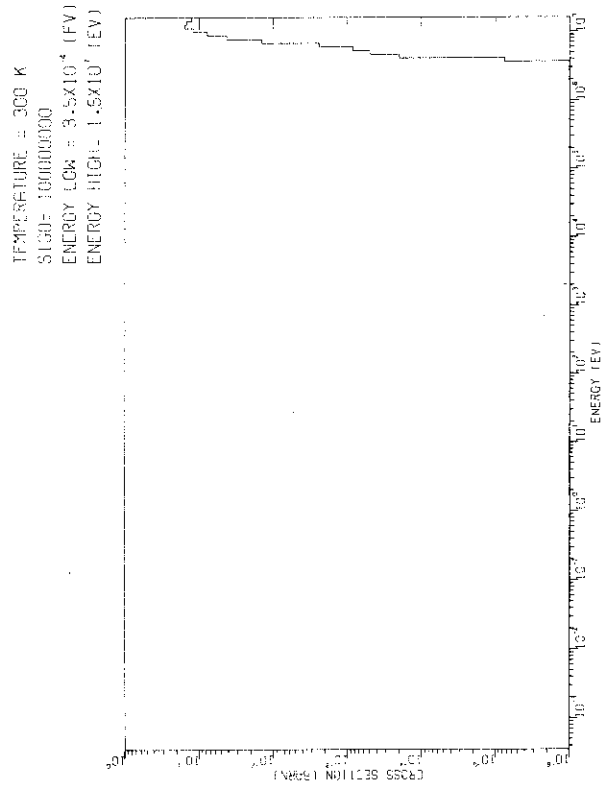
1:56 NR-23 FROM ENDG/B-IV ( 300K )

( N,P )



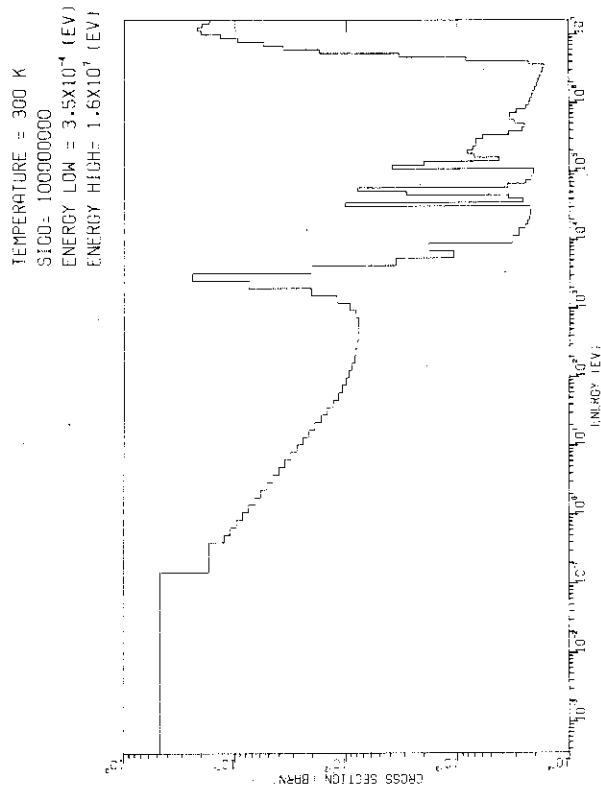
1:55 NR-23 FROM ENDG/B-IV ( 300K )

( N,R )



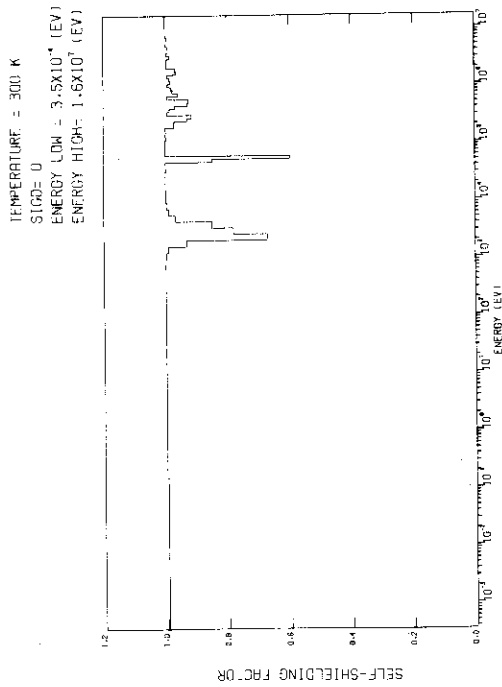
1:56 NR 23 FROM ENDG/B-IV ( 300K )

CAPTURE



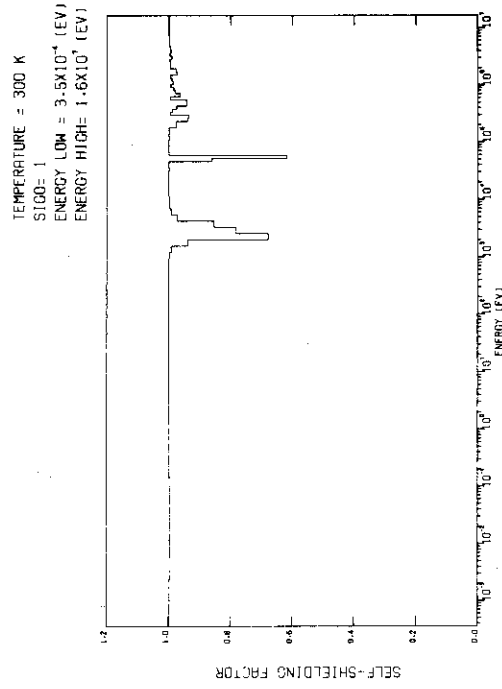
1156 NR-23 FROM ENDF/B-IV ( 300K )

TOTAL



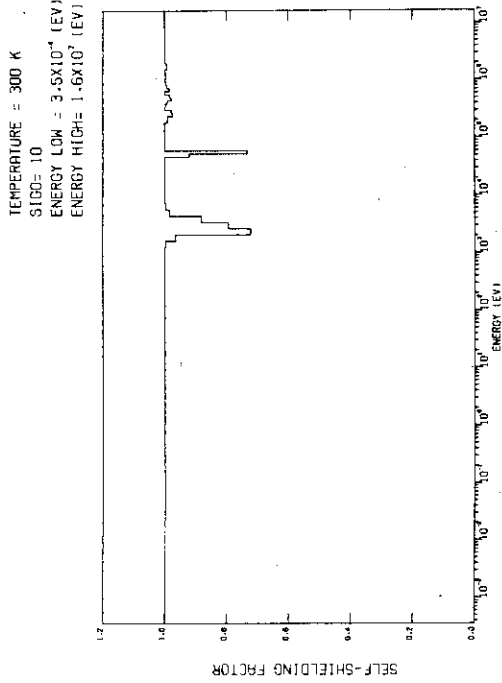
1156 NR-23 FROM ENDF/B-IV ( 300K )

TOTAL



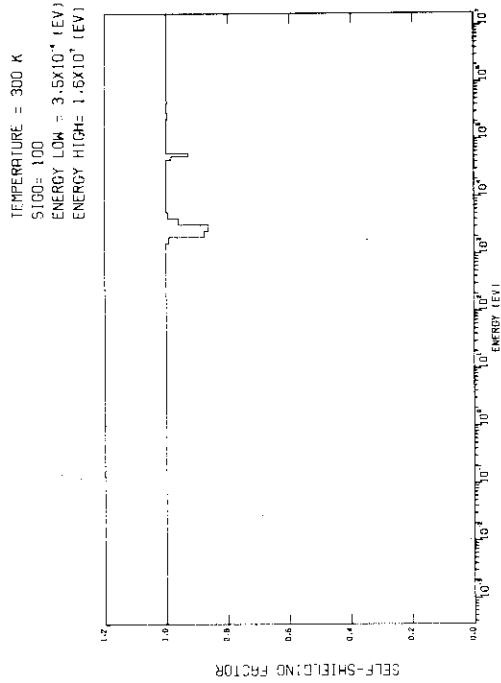
1156 NR-23 FROM ENDF/B-IV ( 300K )

TOTAL



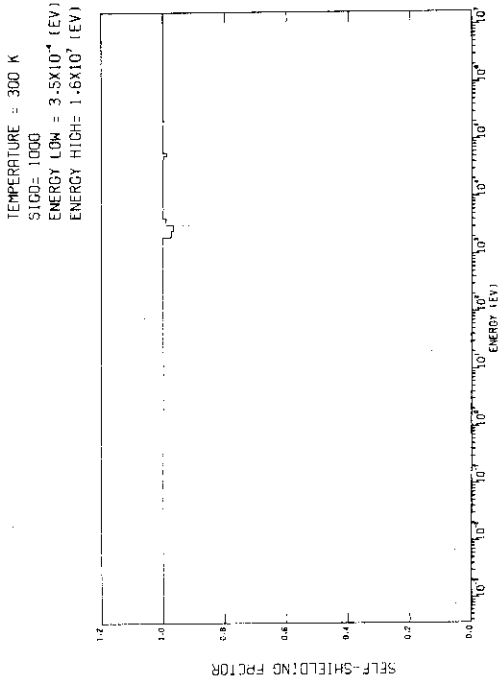
1156 NR-23 FROM ENDF/B-IV ( 300K )

TOTAL



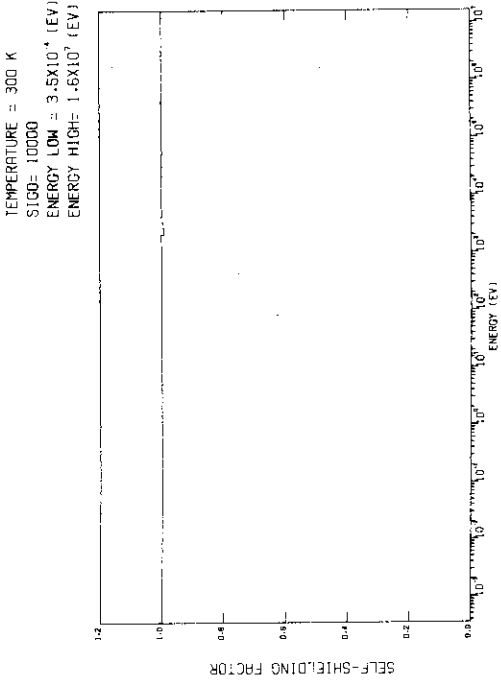
1156 NR-23 FROM ENDF/B-IV ( 300K )

TOTAL



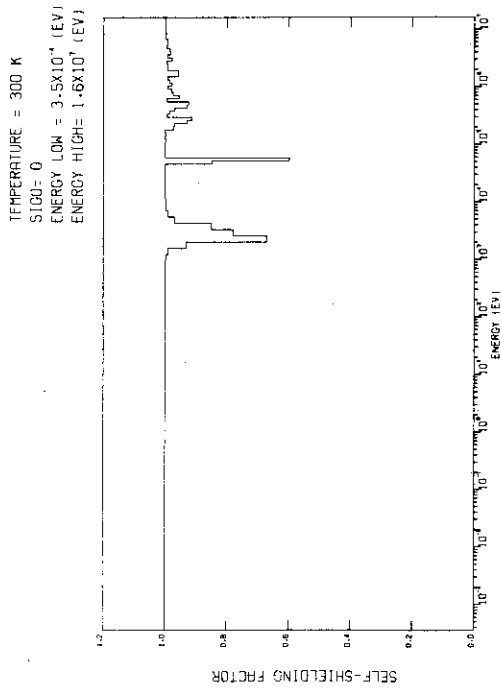
1156 NR-23 FROM ENDF/B-IV ( 300K )

TOTAL



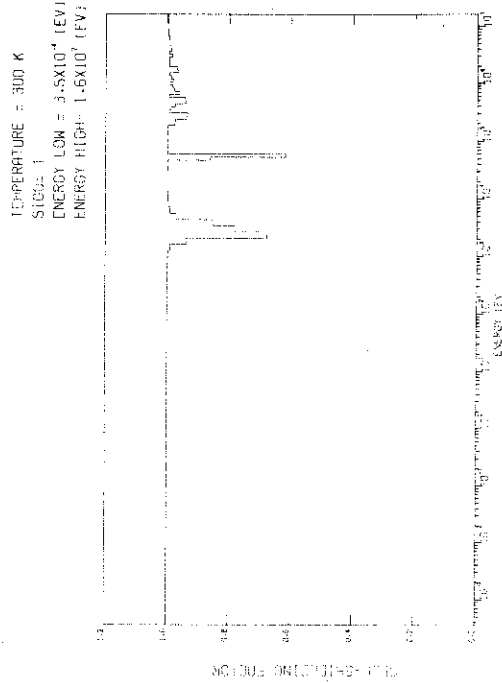
1156 NA-23 FROM ENDF/B-IV ( 300K )

ELAS



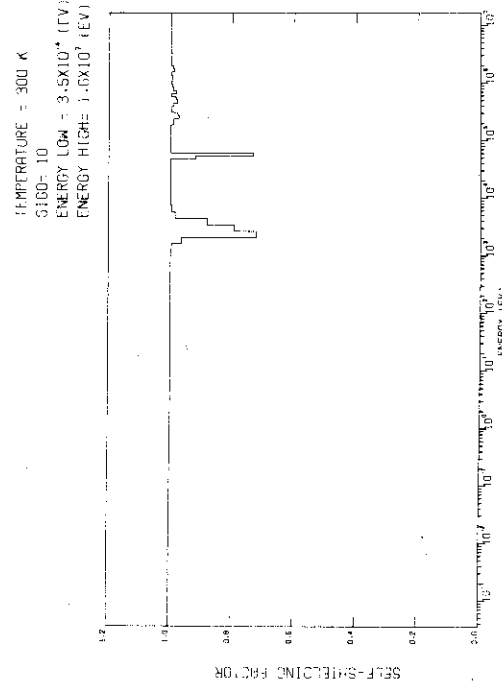
1156 NA-23 FROM ENDF/B-IV ( 300K )

ELAS



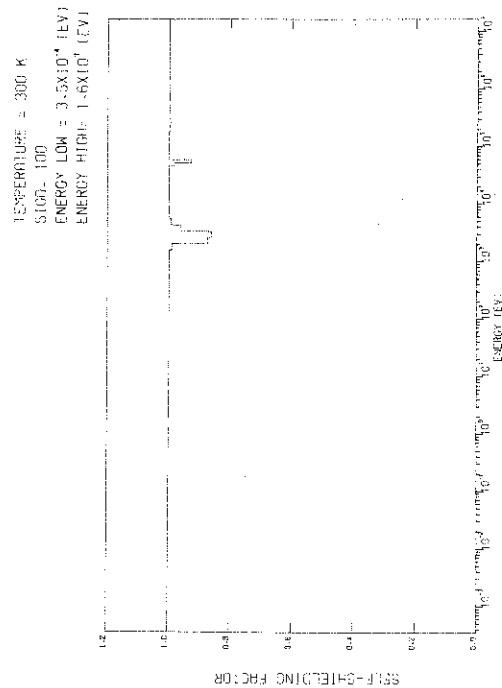
1156 NA-23 FROM ENDF/B-IV ( 300K )

ELAS



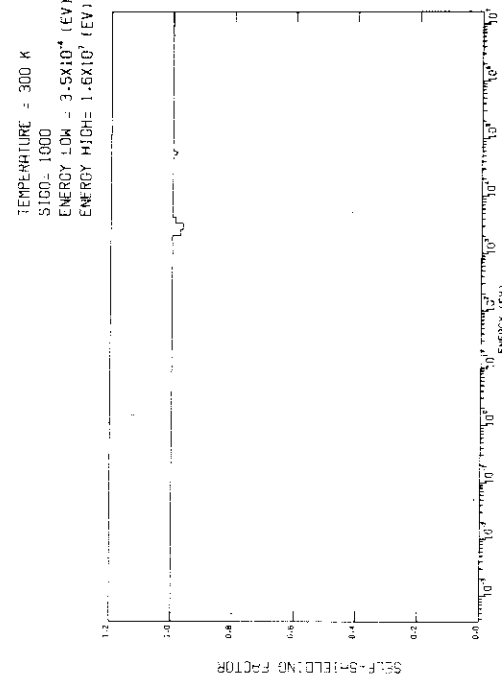
1156 NA-23 FROM ENDF/B-IV ( 300K )

ELAS



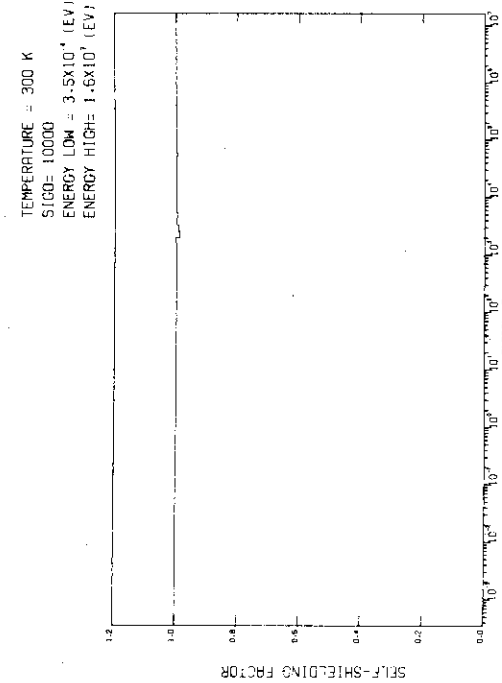
1156 NA-23 FROM ENDF/B-IV ( 300K )

ELAS



1156 NA-23 FROM ENDF/B-IV ( 300K )

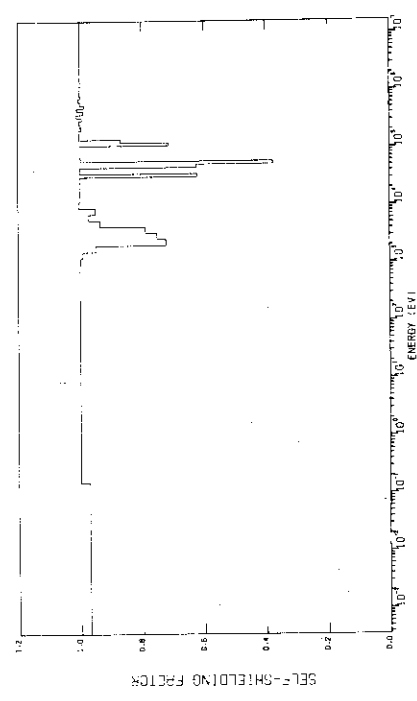
ELAS



1155 NA-23 FROM ENDF/B-IV ( 300K )

CAPTURE

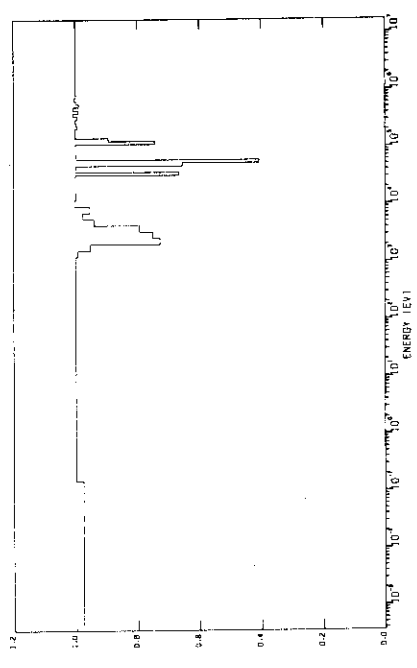
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1155 NA-23 FROM ENDF/B-IV ( 300K )

CAPTURE

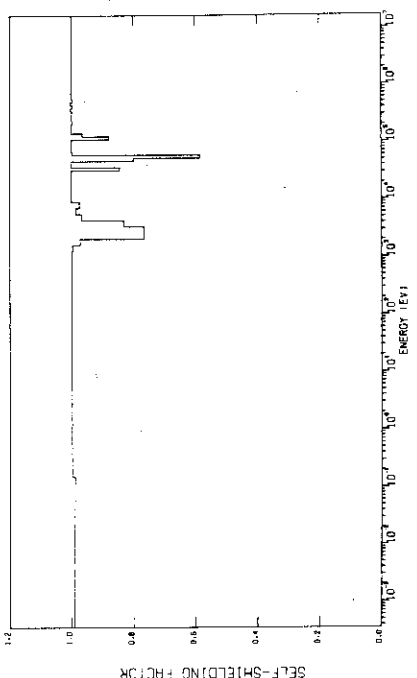
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1155 NA-23 FROM ENDF/B-IV ( 300K )

CAPTURE

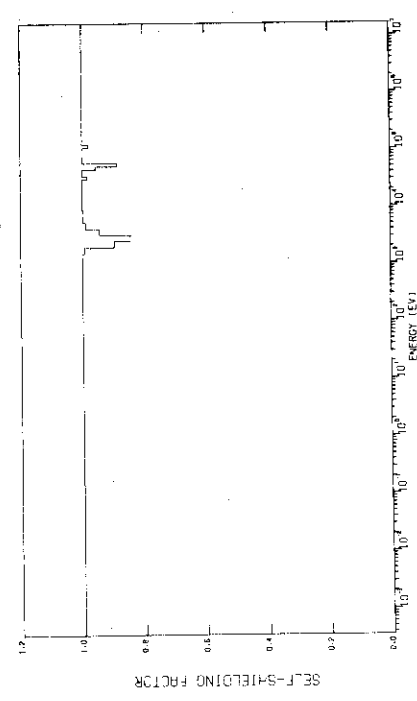
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1156 NA-23 FROM ENDF/B-IV ( 300K )

CAPTURE

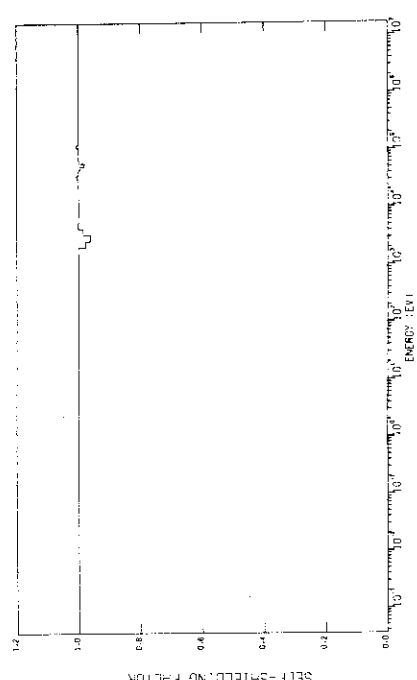
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1156 NA-23 FROM ENDF/B-IV ( 300K )

CAPTURE

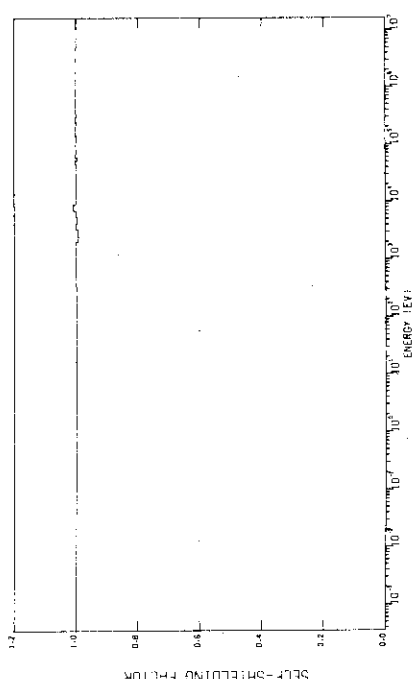
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1156 NA-23 FROM ENDF/B-IV ( 300K )

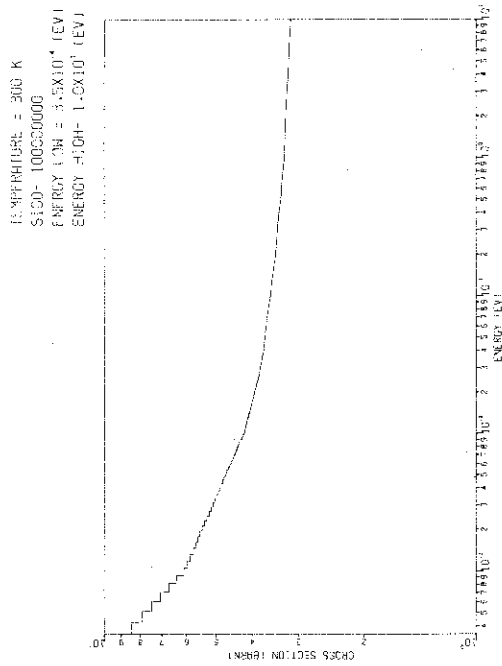
CAPTURE

TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



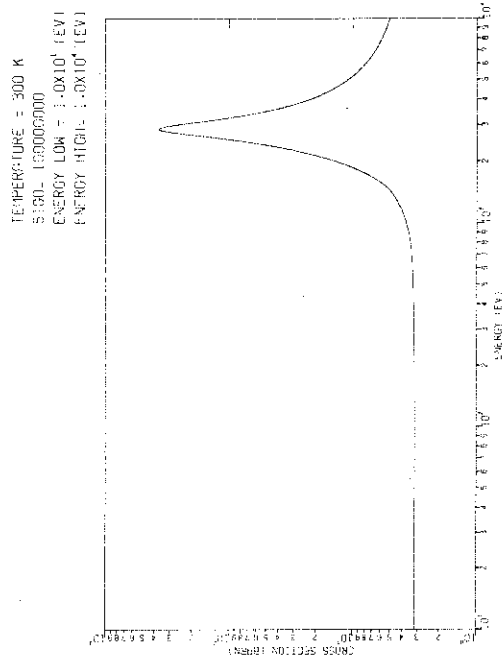
1156 NR-23 FROM ENDF/B-IV

REACTION TYPE = 1



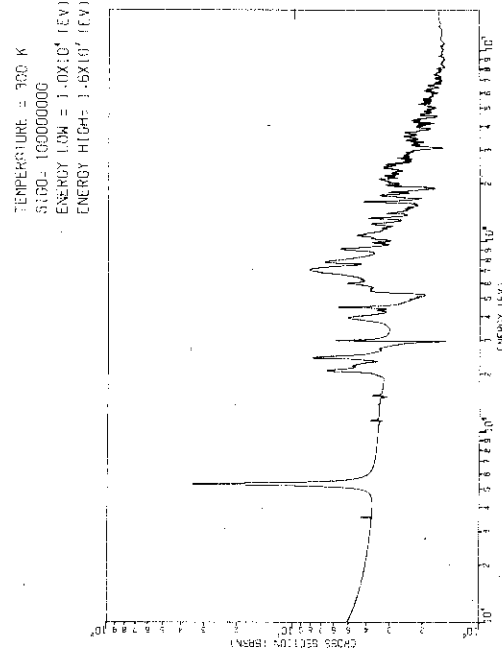
1156 NR-23 FROM ENDF/B-IV

REACTION TYPE = 1



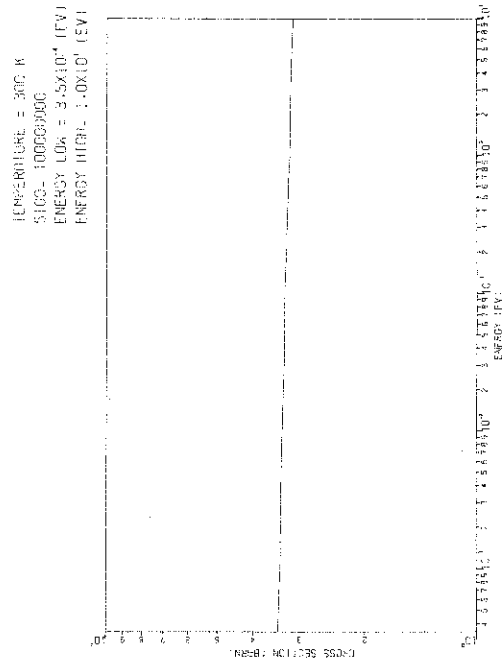
1156 NR-23 FROM ENDF/B-IV

REACTION TYPE = 1



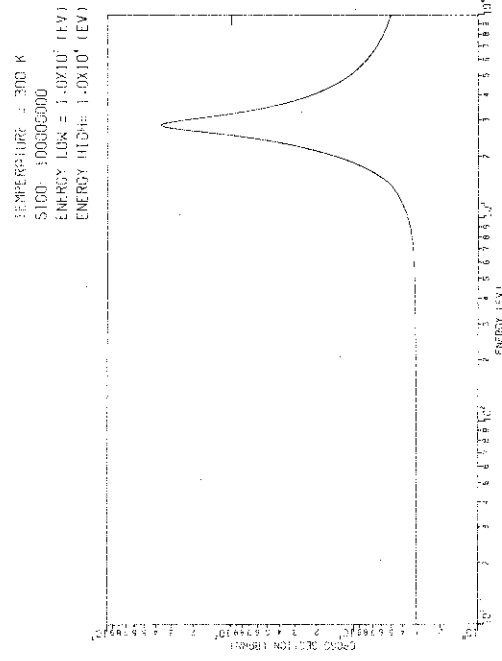
1156 NR-23 FROM ENDF/B-IV

REACTION TYPE = 2



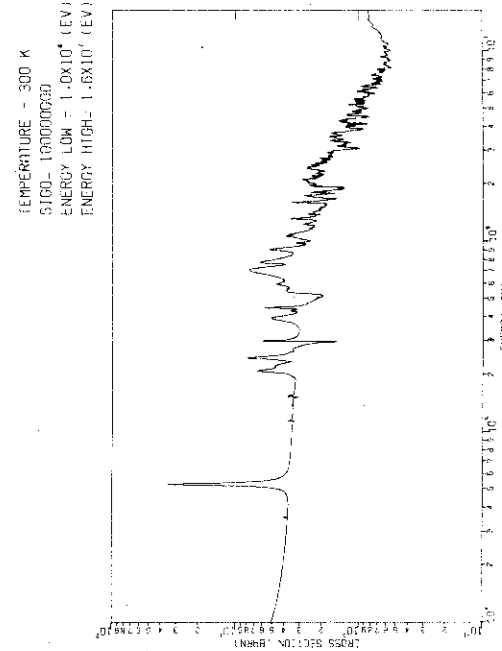
1156 NR-23 FROM ENDF/B-IV

REACTION TYPE = 2



1156 NR-23 FROM ENDF/B-IV

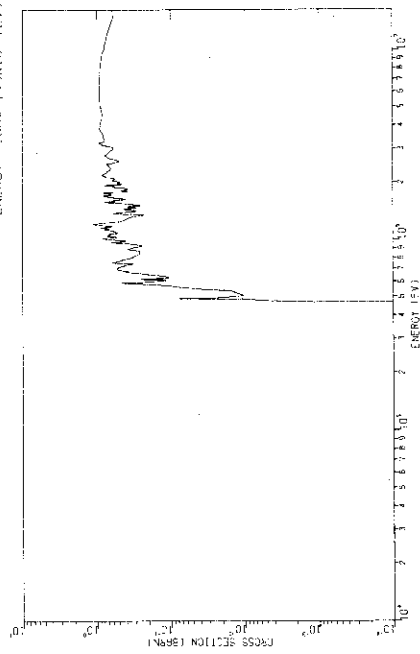
REACTION TYPE = 2



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 4

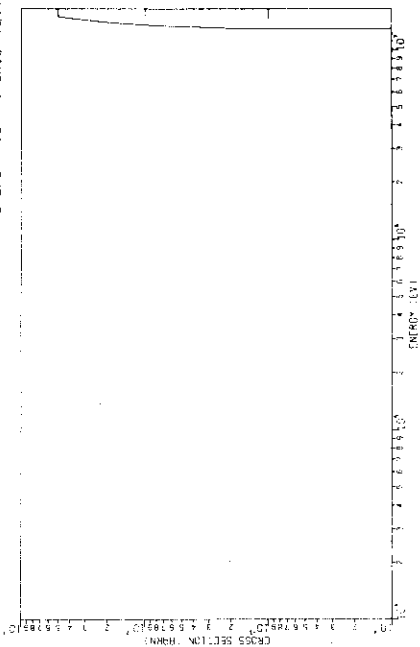
TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 16

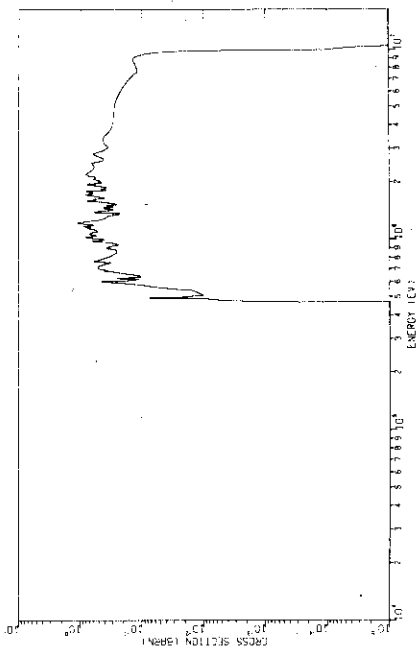
TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 51

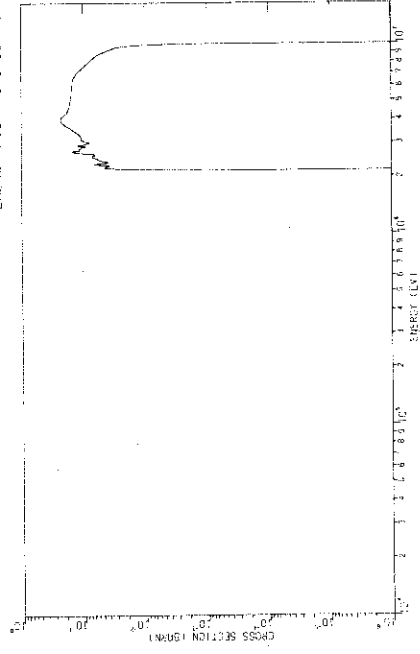
TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 52

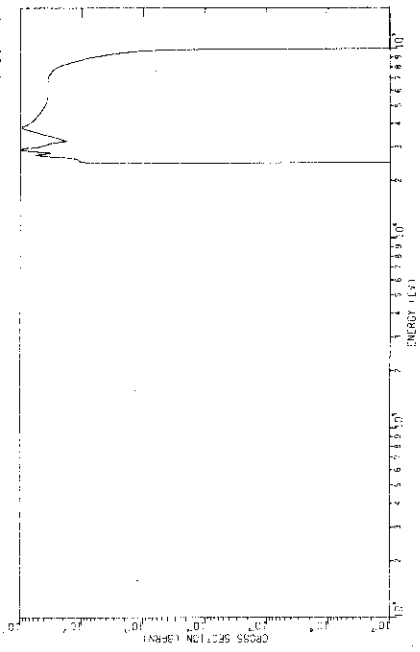
TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 53

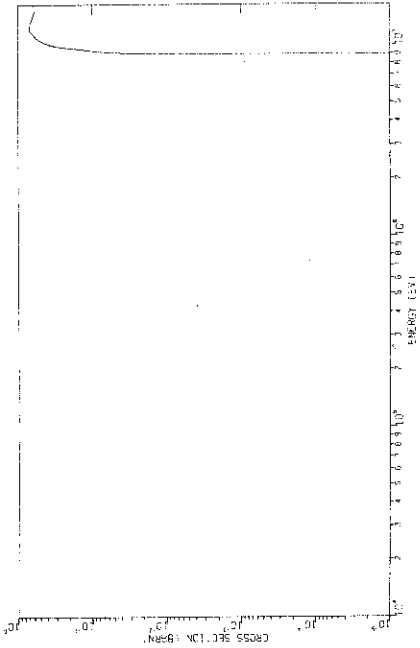
TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 91

TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)





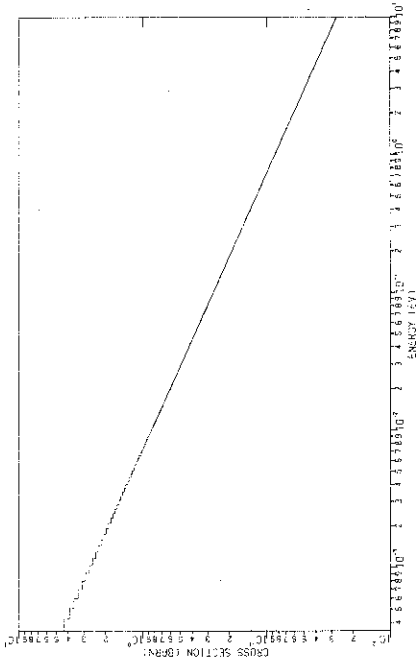
<sup>23</sup>Na  
11  
1156

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1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 102

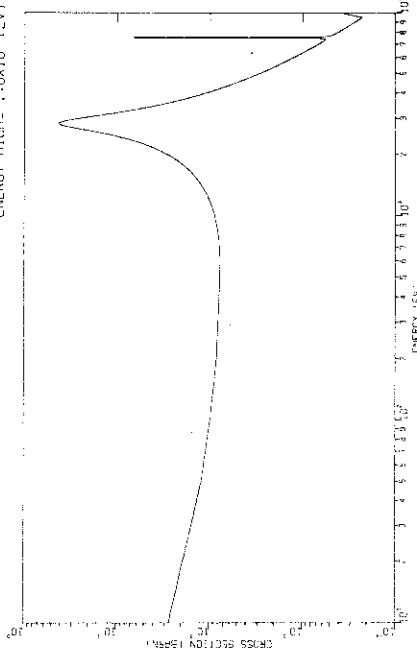
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 5.5X10<sup>-8</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 102

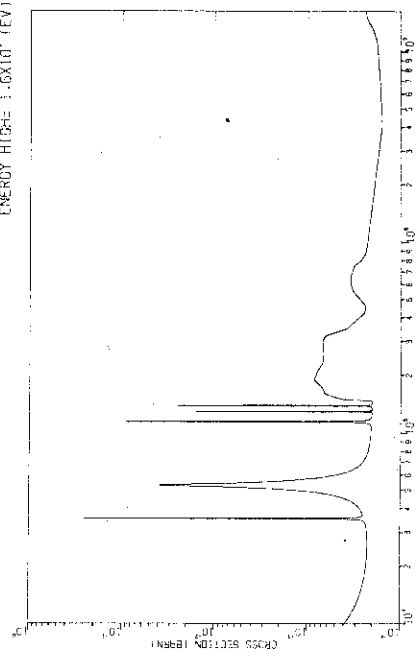
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>8</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 102

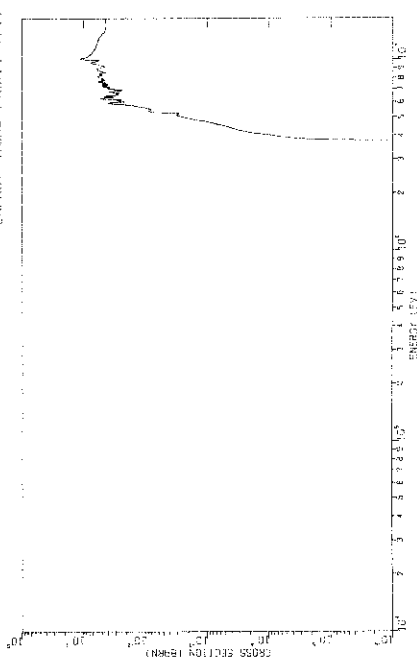
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>8</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 103

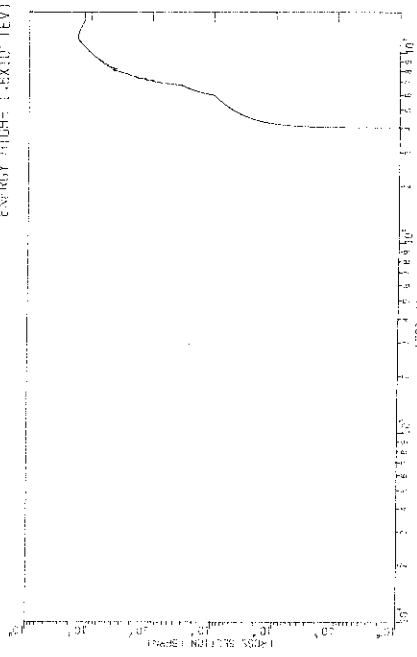
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>8</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)



1156 Na-23 FROM ENDF/B-IV

REACTION TYPE = 107

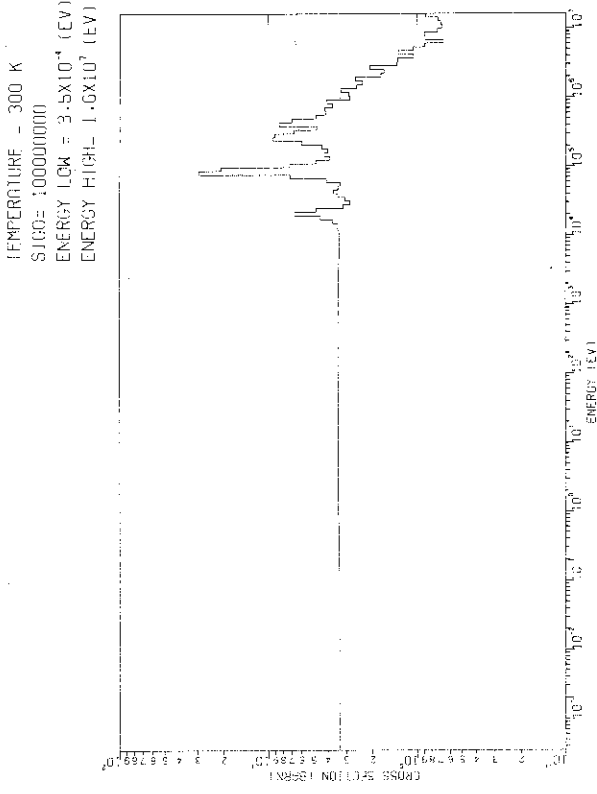
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>8</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)



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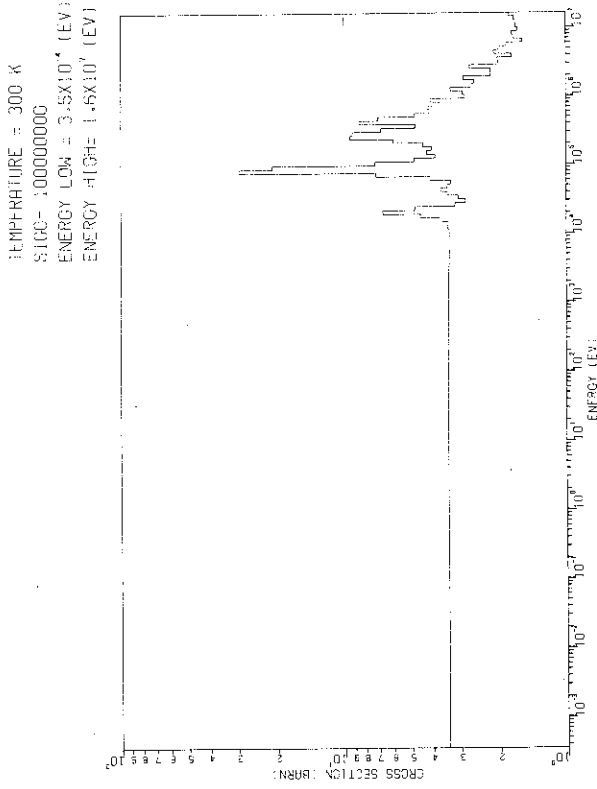
ELAS

1280 MG FROM ENDF/B-IV ( 300K )



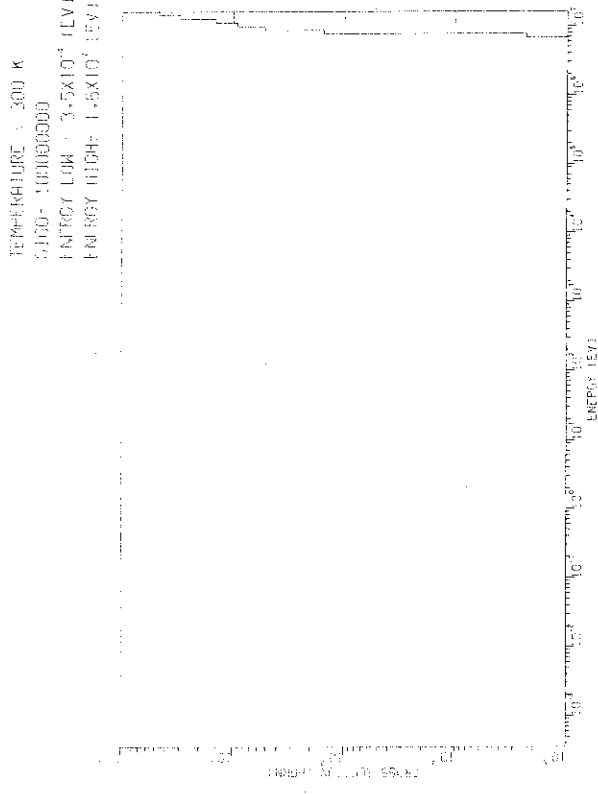
TOTAL

1280 MG FROM ENDF/B-IV ( 300K )



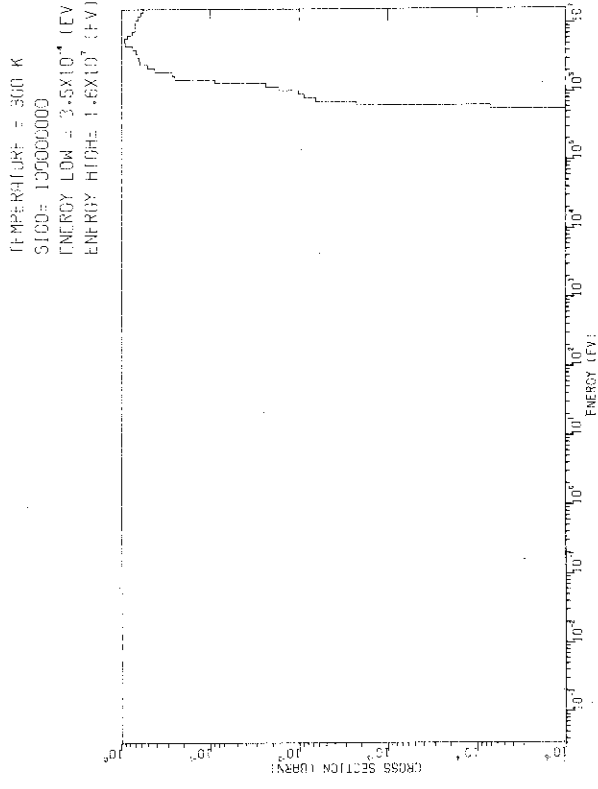
EN,2N1

1280 MG FROM ENDF/B-IV ( 300K )



INELNS

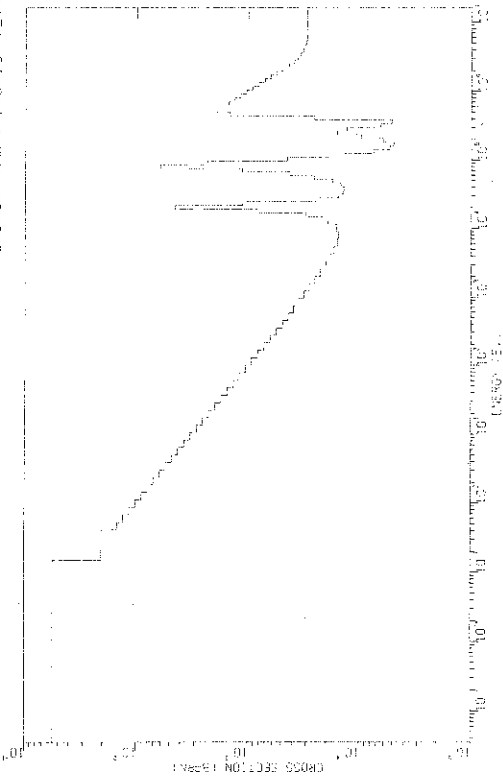
1280 MG FROM ENDF/B-IV ( 300K )



1280 MG FROM ENDF/B-IV ( 300K )

(N,P)

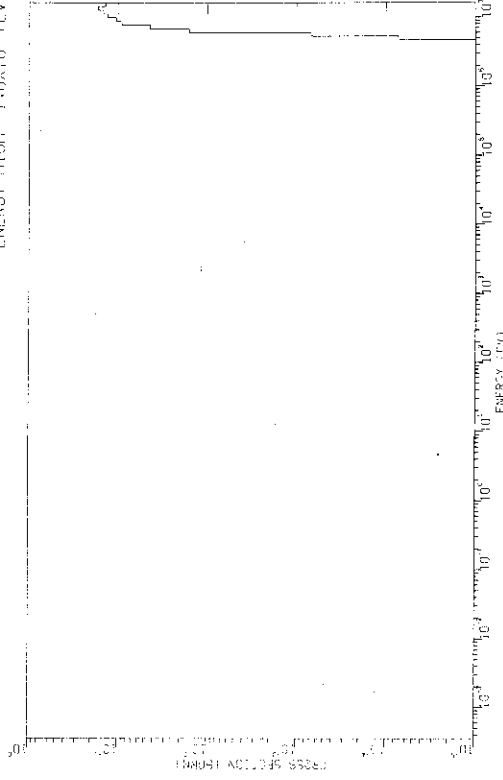
TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1280 MG FROM ENDF/B-IV ( 300K )

(N,P)

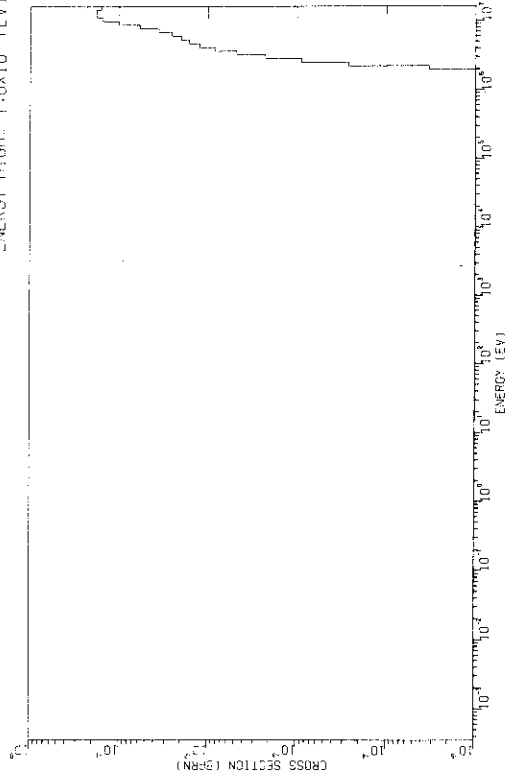
TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1280 MG FROM ENDF/B-IV ( 300K )

(N,P)

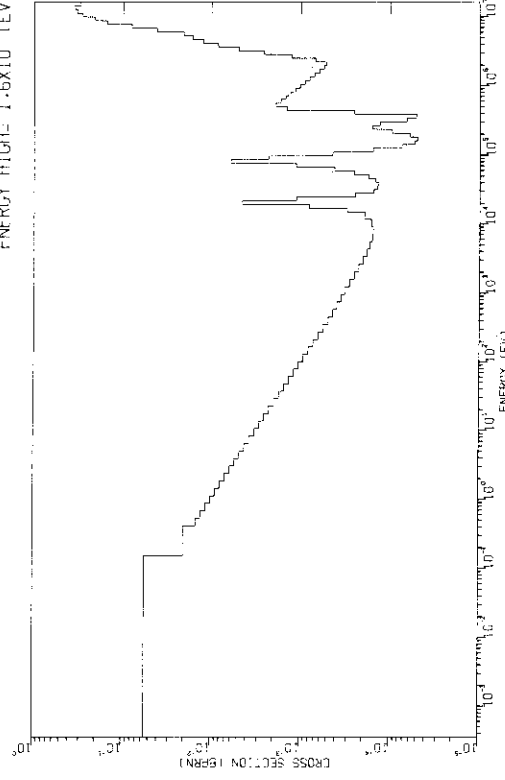
TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1280 MG FROM ENDF/B-IV ( 300K )

CAPTURE

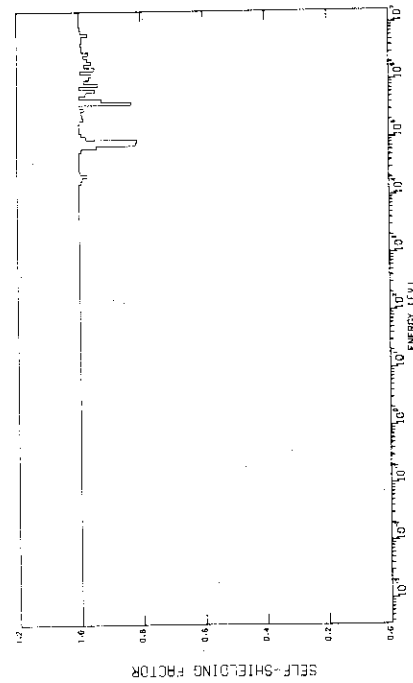
TEMPERATURE = 300 K  
SIG0 = 10000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1280 MG FROM ENDF/B-IV ( 300K )

TOTAL

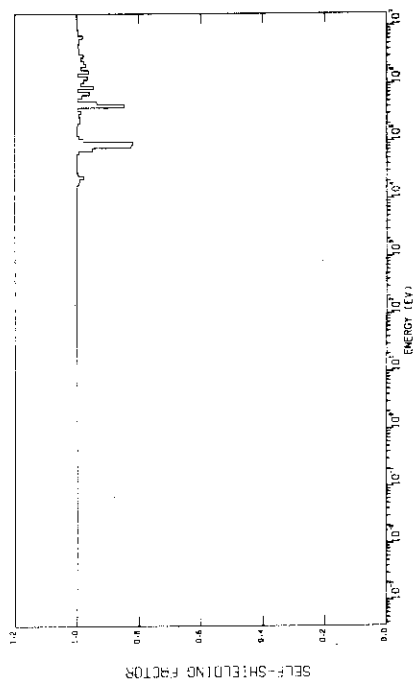
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV ( 300K )

TOTAL

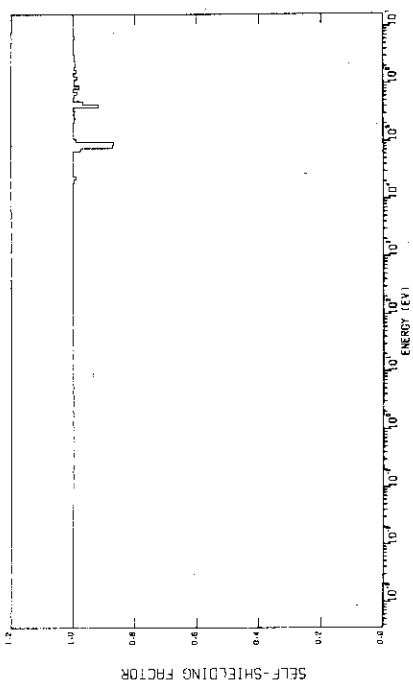
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV ( 300K )

TOTAL

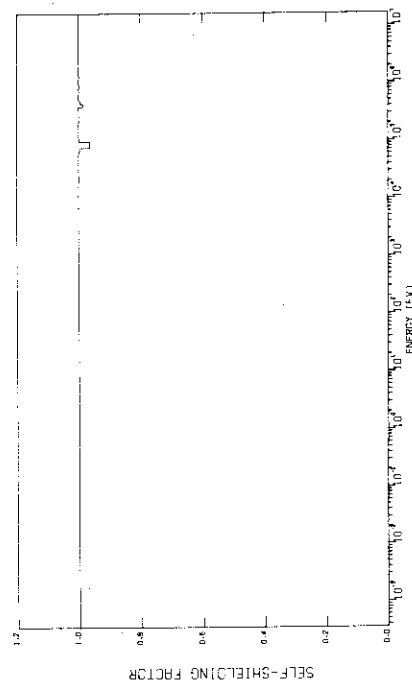
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV ( 300K )

TOTAL

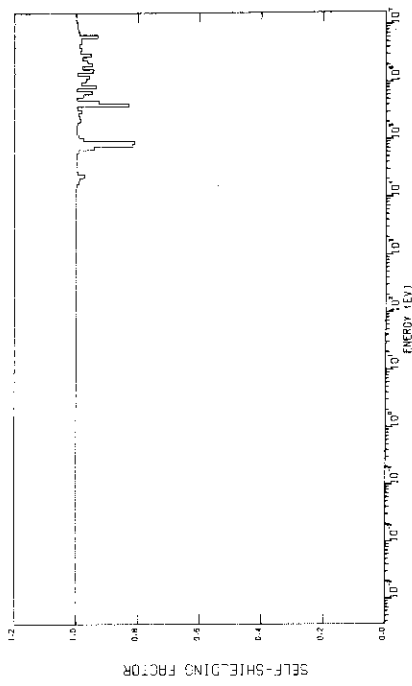
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV ( 300K )

ELAS

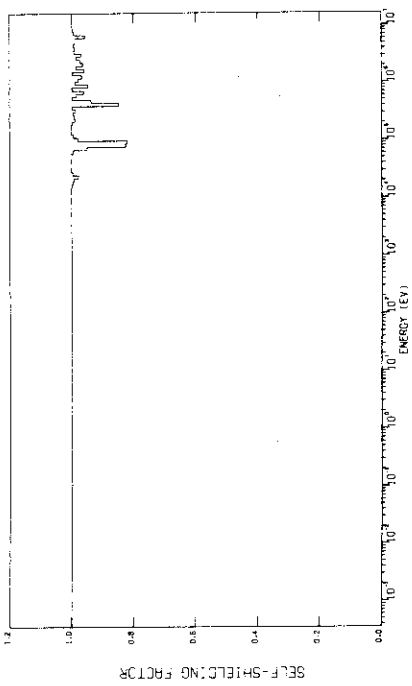
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



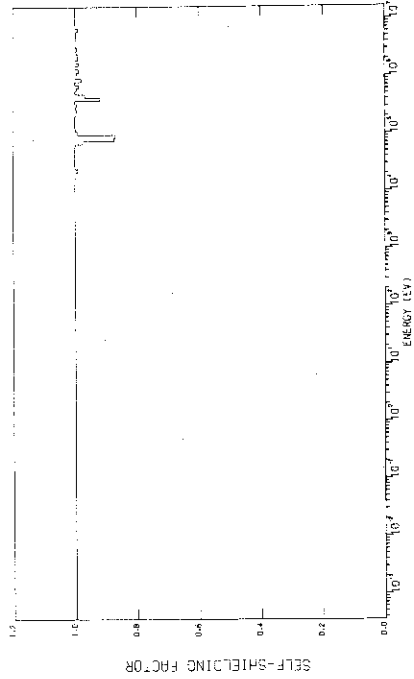
# 12 Mg 1280

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1280 MG FROM ENDF/B-V ( 300K )

ELRS

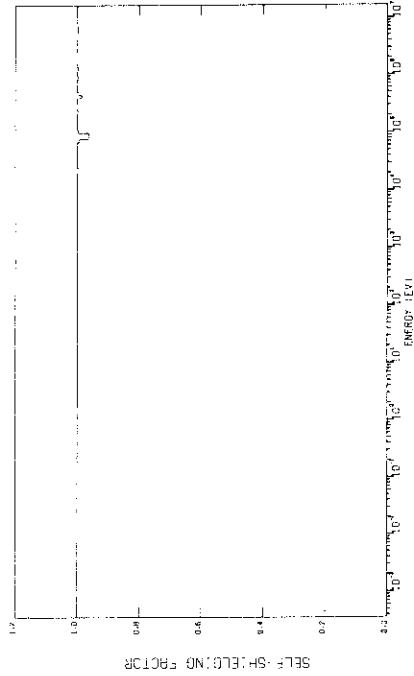
TEMPERATURE = 300 K  
S100= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-V ( 300K )

FLRS

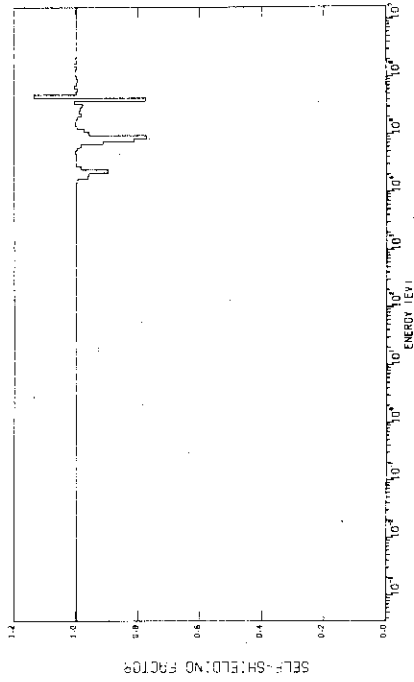
TEMPERATURE = 300 K  
S100= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-V ( 300K )

CAPTURE

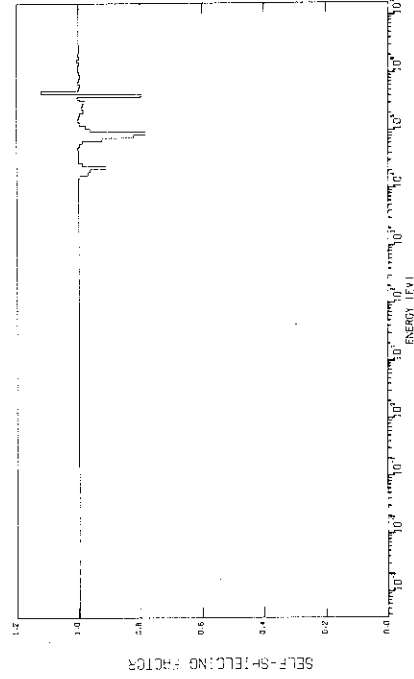
TEMPERATURE = 300 K  
S100= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-V ( 300K )

CAPTURE

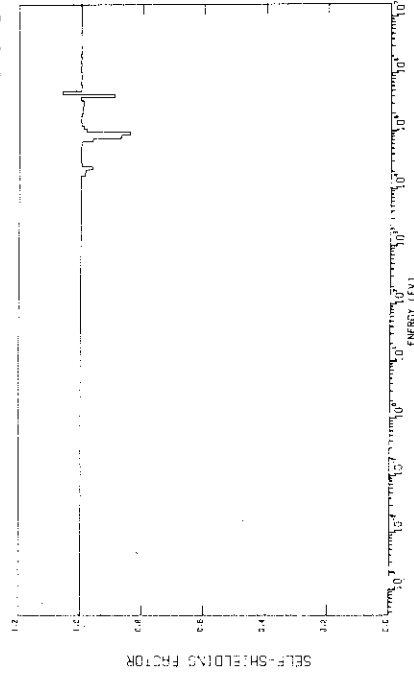
TEMPERATURE = 300 K  
S100= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-V ( 300K )

CAPTURE

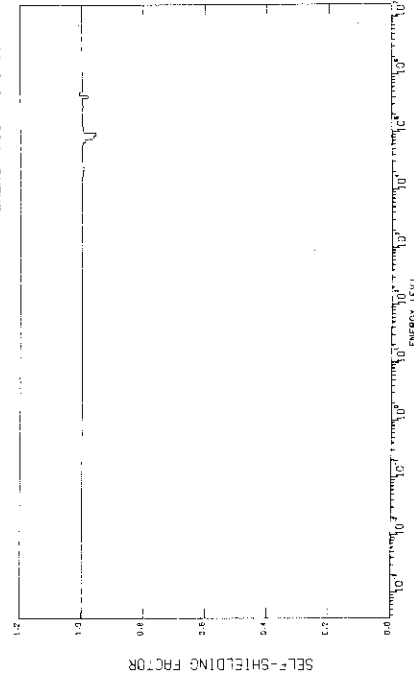
TEMPERATURE = 300 K  
S100= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-V ( 300K )

CAPTURE

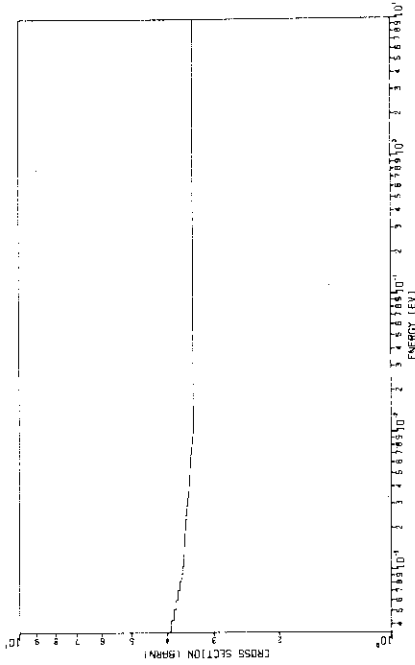
TEMPERATURE = 300 K  
S100= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 1

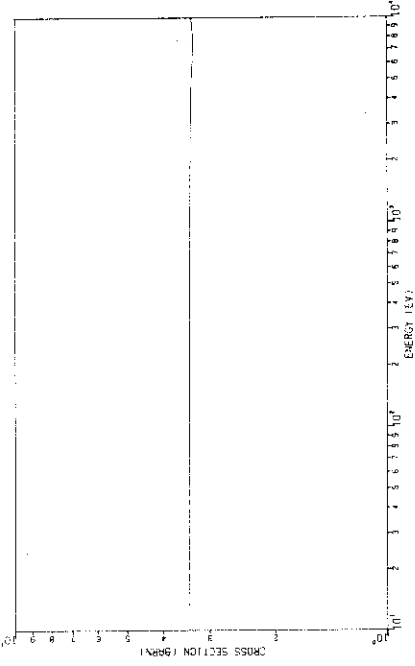
TEMPERATURE = 300 K  
SIGD = 1.00000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 1

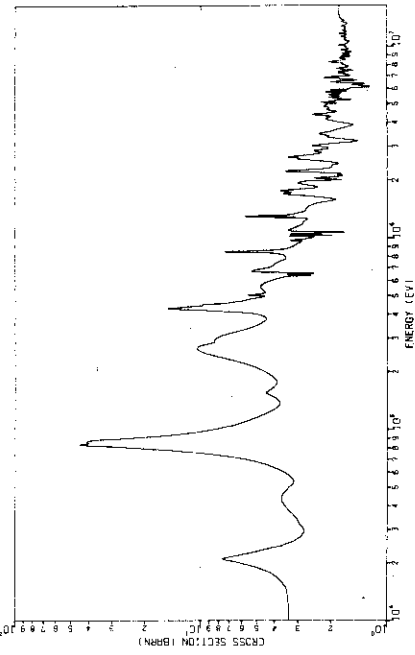
TEMPERATURE = 300 K  
SIGD = 1.00000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 1

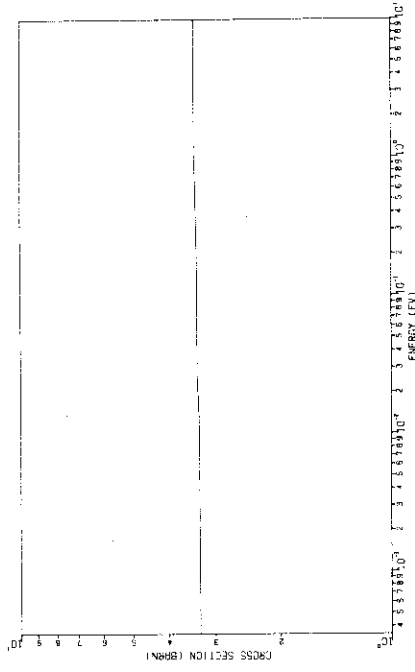
TEMPERATURE = 300 K  
SIGD = 1.00000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 2

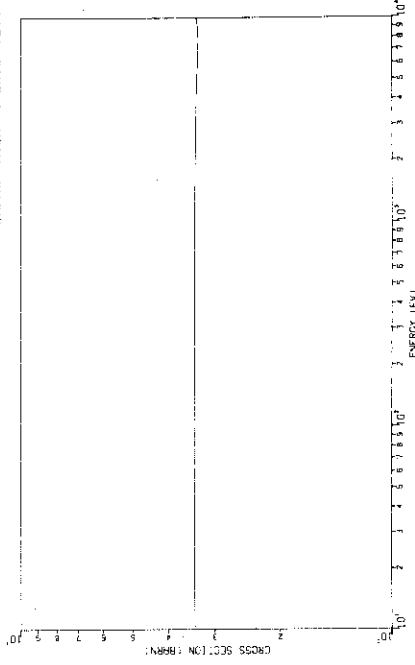
TEMPERATURE = 300 K  
SIGD = 1.00000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 2

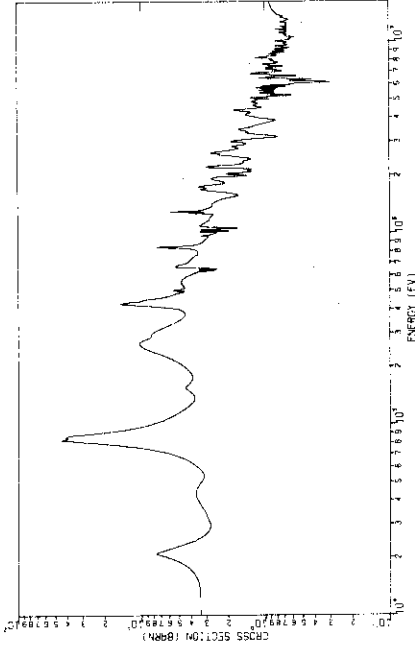
TEMPERATURE = 300 K  
SIGD = 1.00000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 2

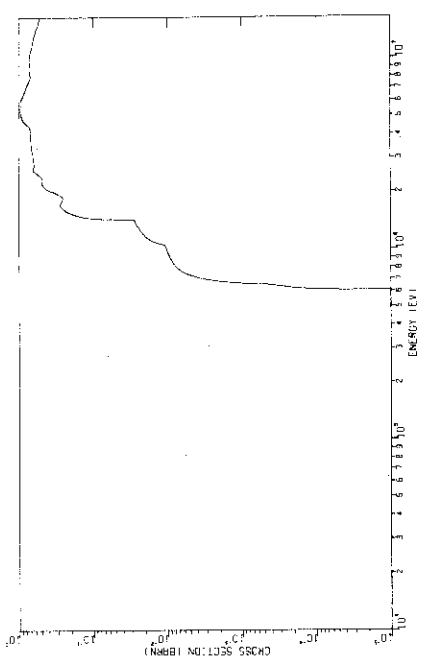
TEMPERATURE = 300 K  
SIGD = 1.00000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 4

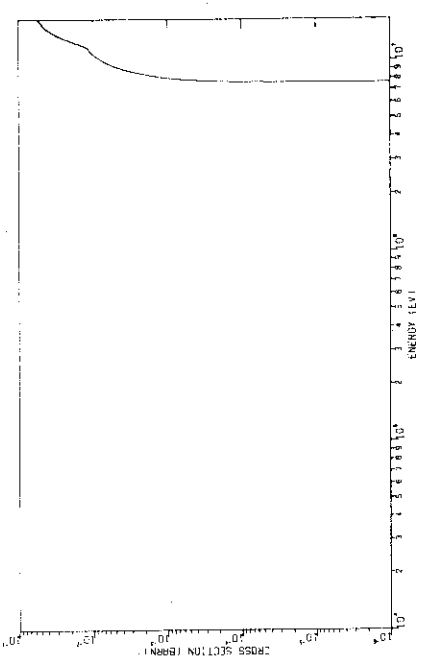
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 16

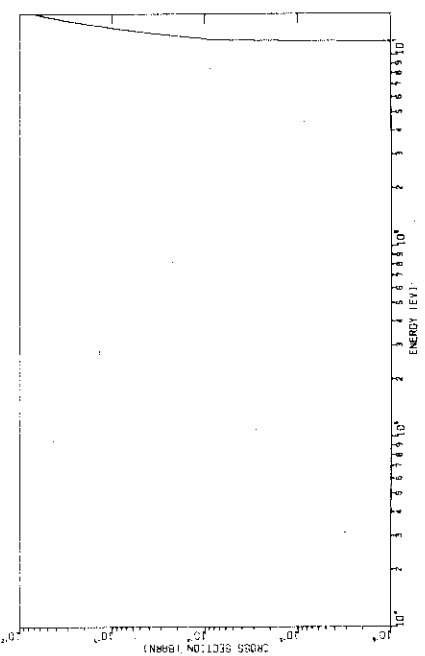
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 22

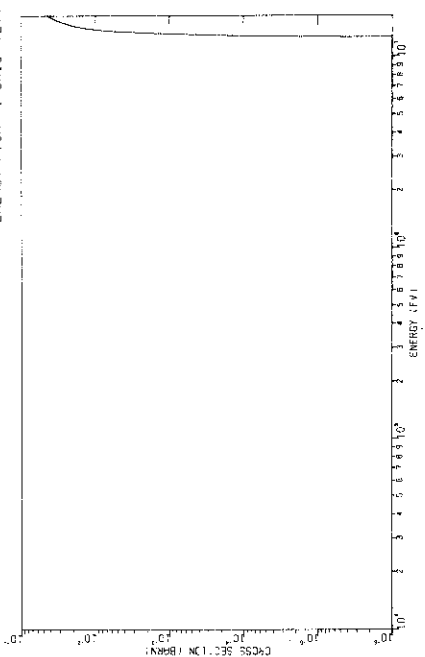
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 28

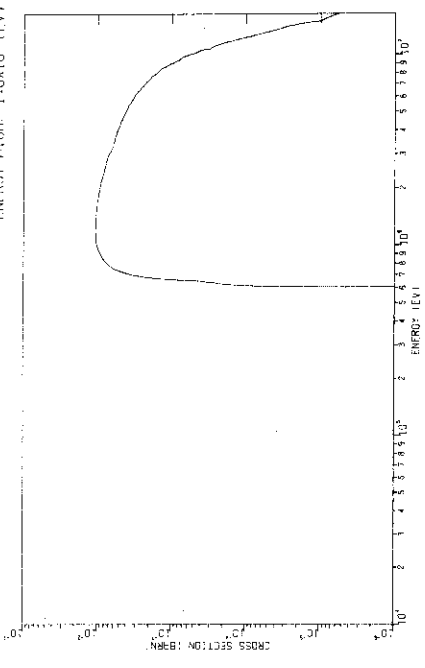
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 51

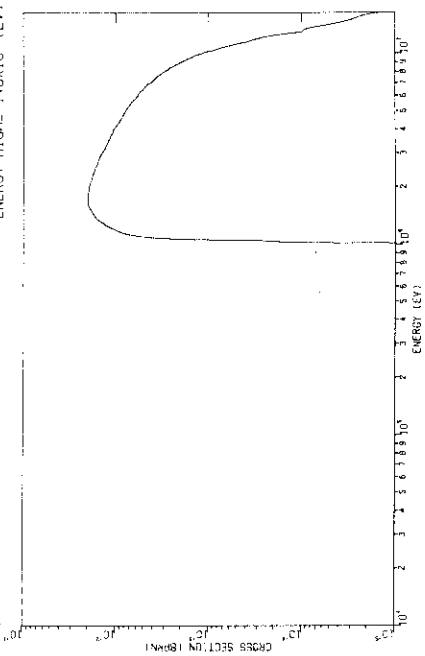
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 52

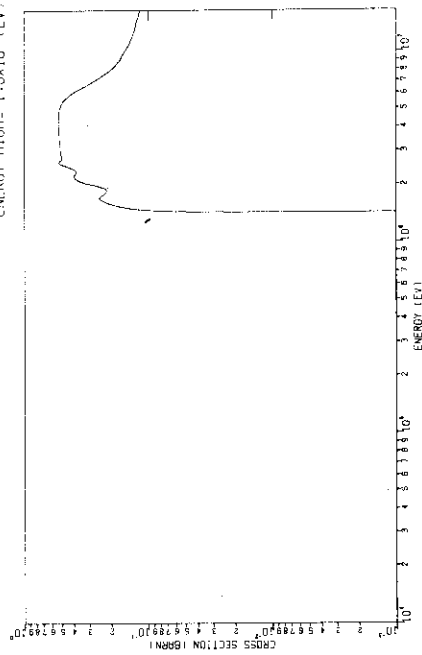
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 53

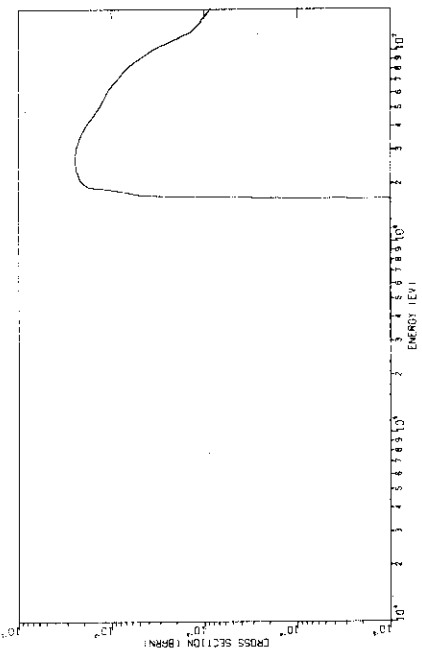
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 54

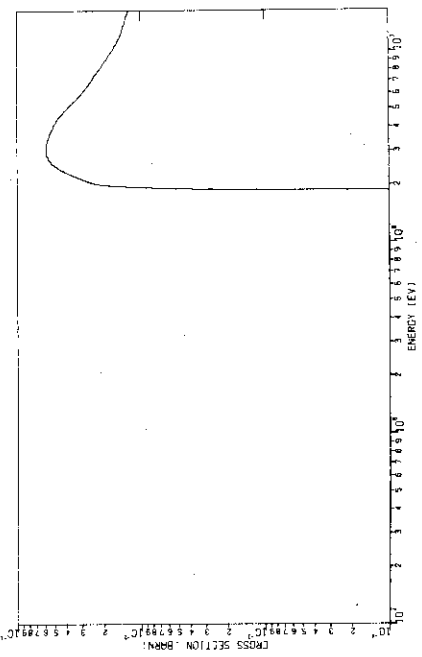
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 55

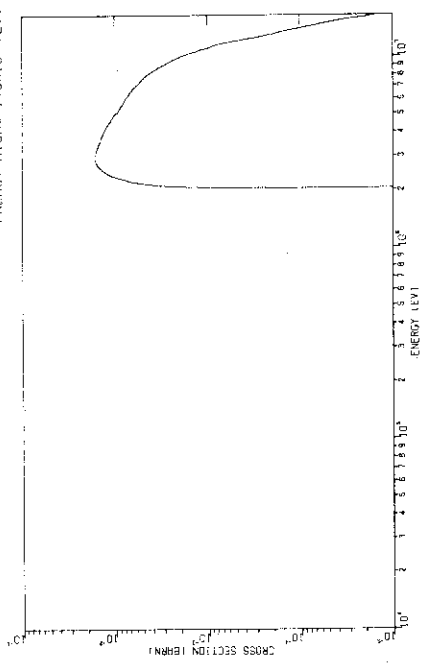
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 56

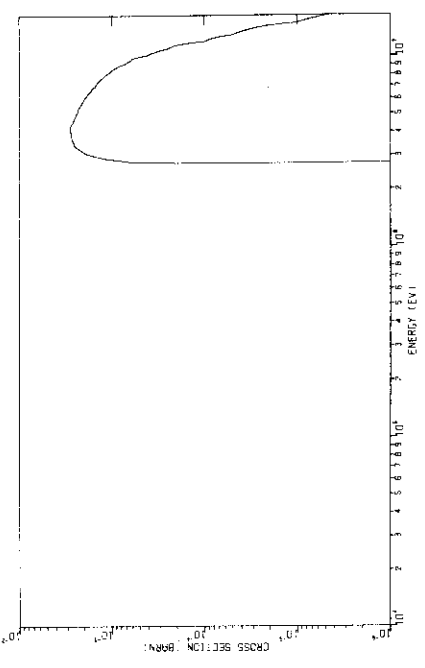
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 57

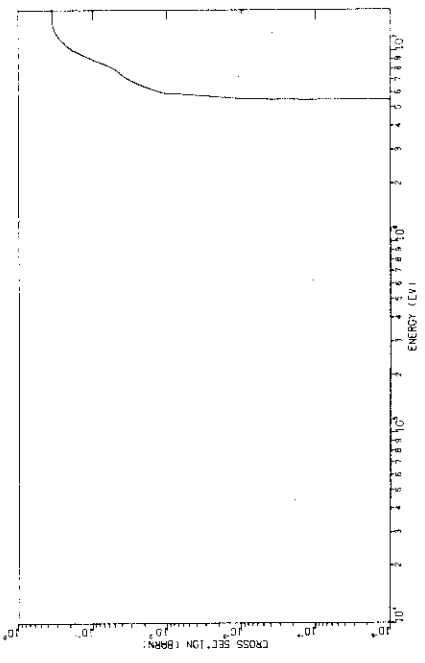
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 91

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)





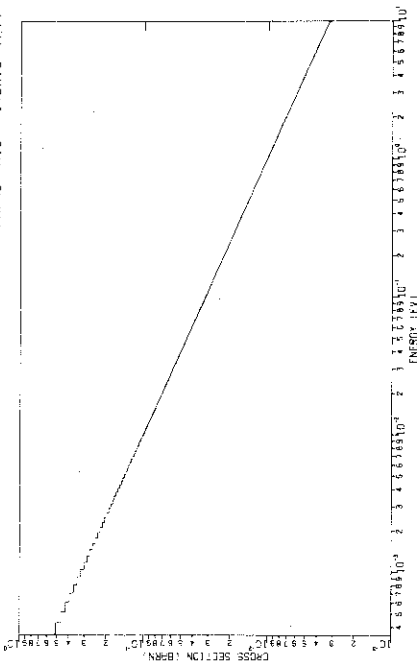
**<sup>12</sup>Mg**  
**1280**

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1280 MG FROM ENDF/B-IV

REACTION TYPE = 102

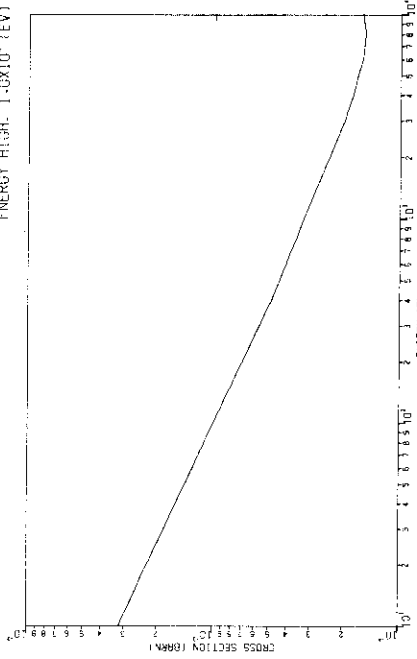
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 102

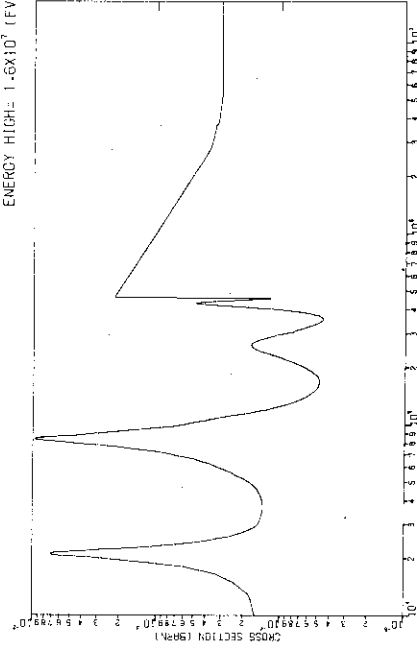
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 102

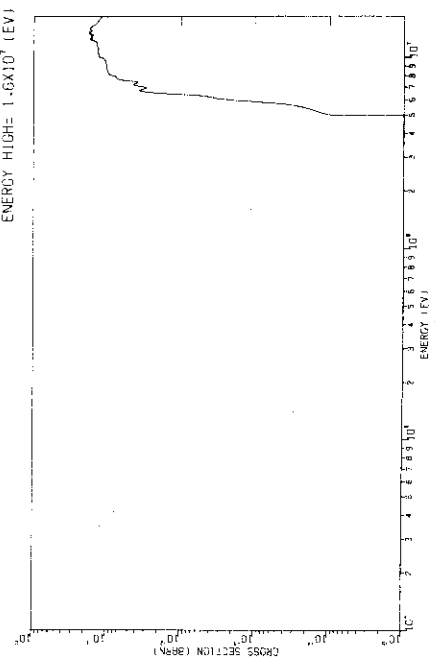
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 103

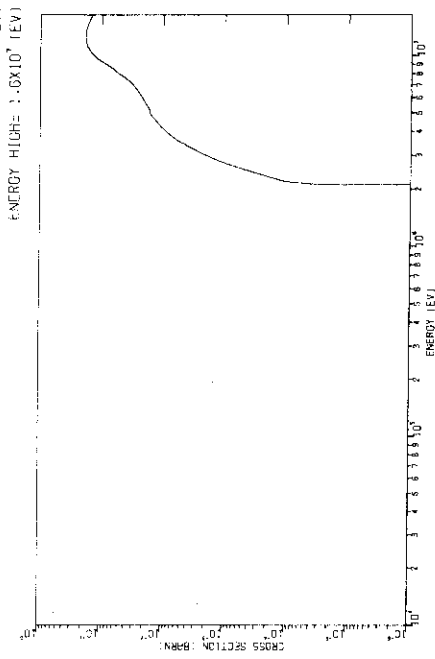
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1280 MG FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

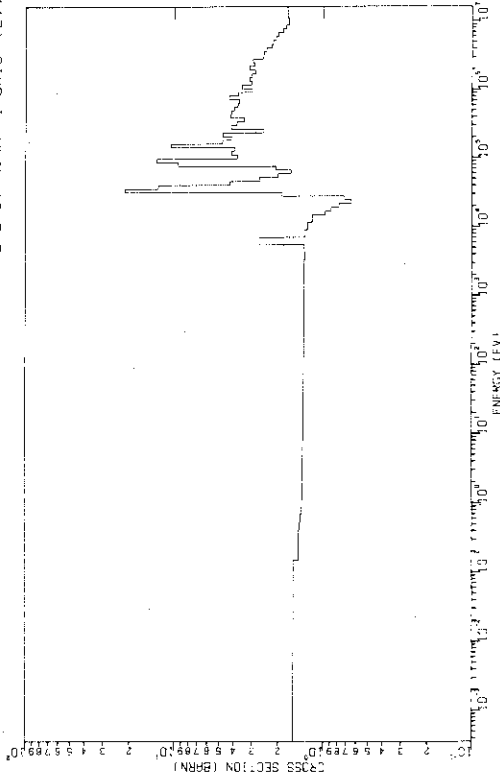


1193 AL-27 FROM ENDF/B-IV ( 300K )

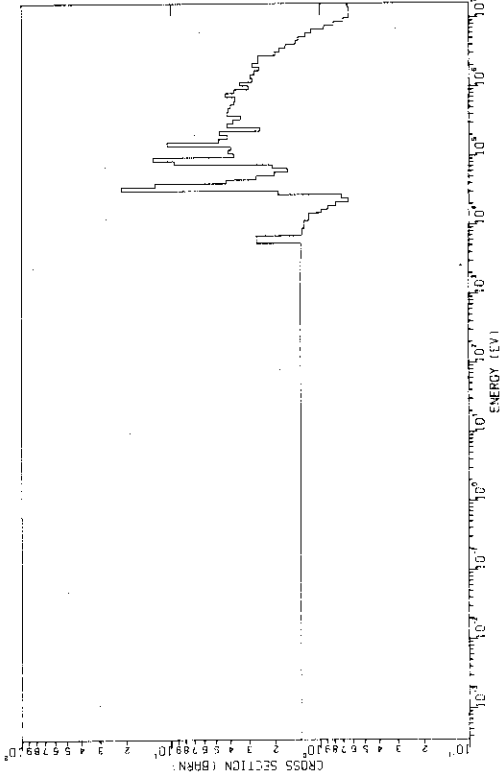
TOTAL

ELIAS

TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



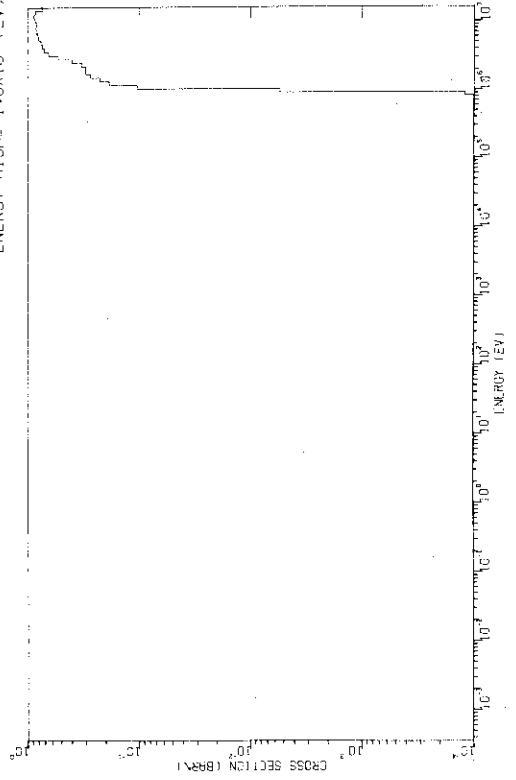
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

INELAS

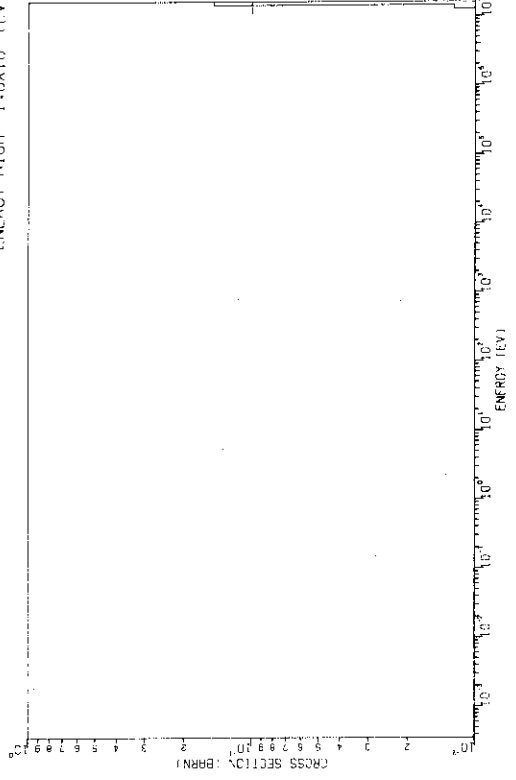
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

1193 AL-27 FROM ENDF/B-IV ( 300K )

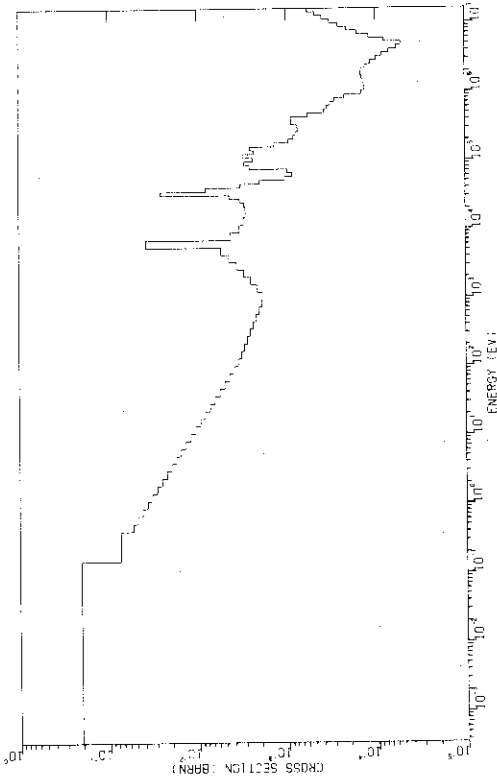
(N,2N)



1193 AL-27 FROM ENDF/B-IV ( 300K )

( N.C )

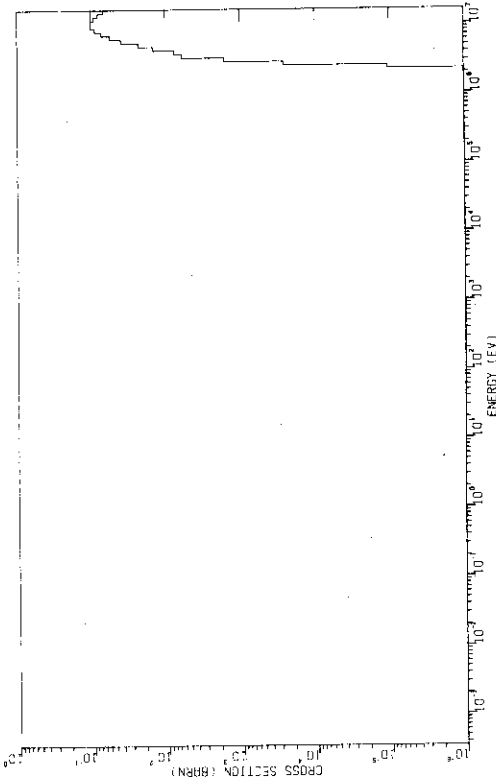
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

( N.P )

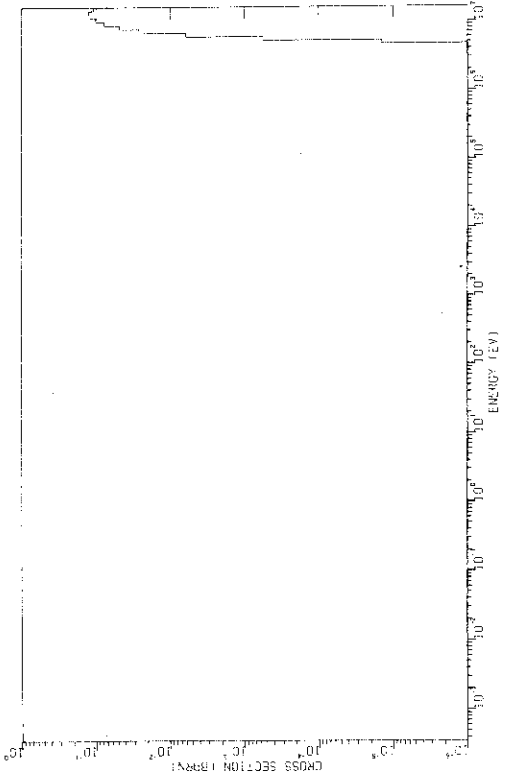
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

( N.A )

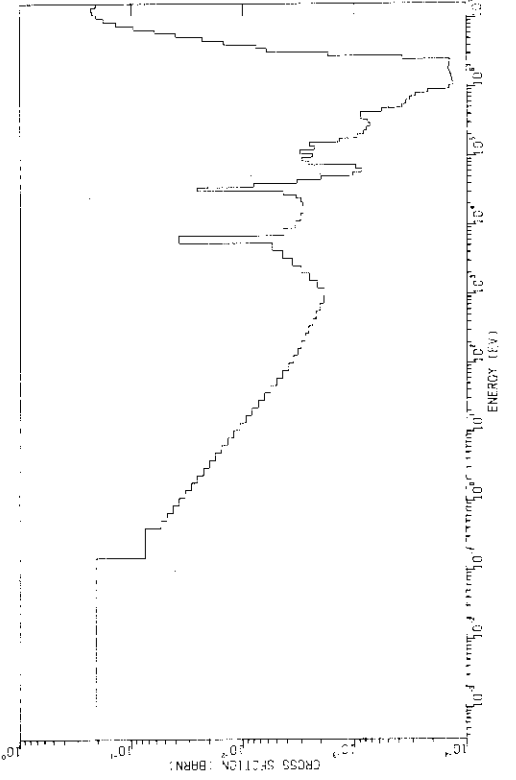
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

CAPTURE

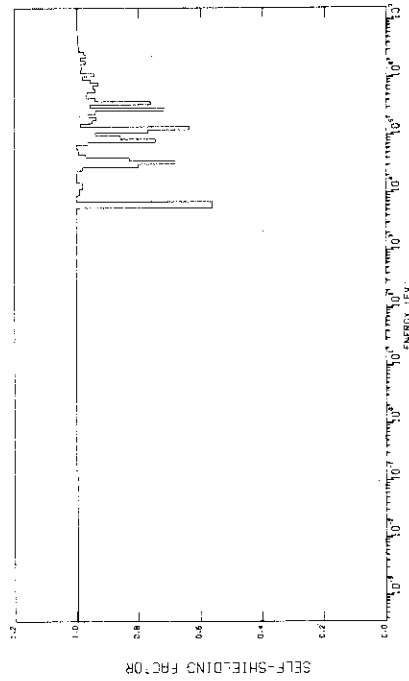
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

TOTAL

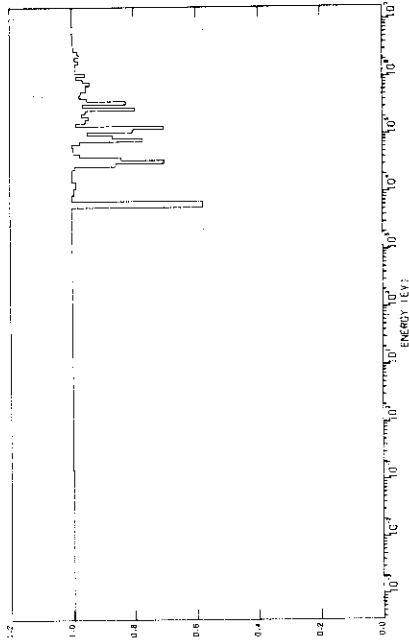
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

TOTAL

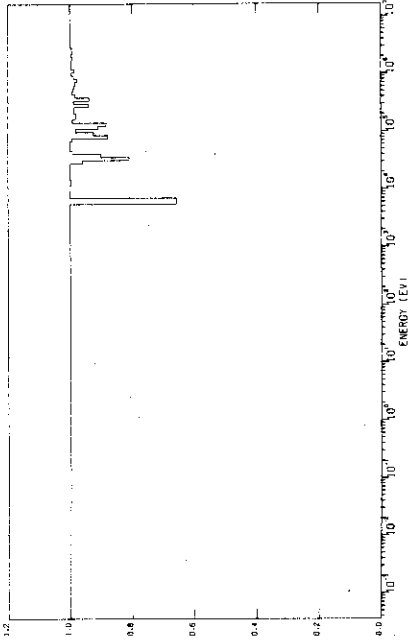
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

TOTAL

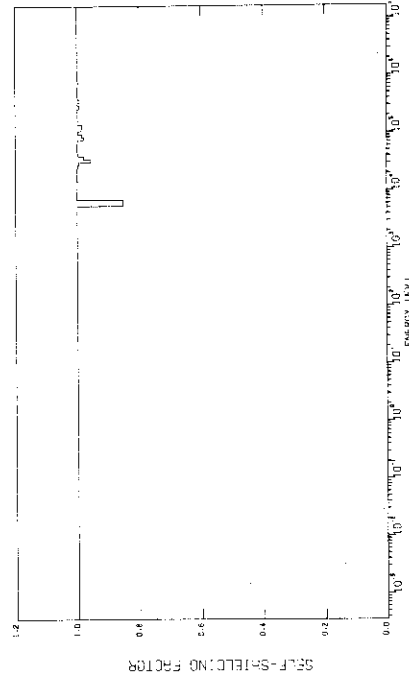
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL 27 FROM ENDF/B-IV ( 300K )

TOTAL

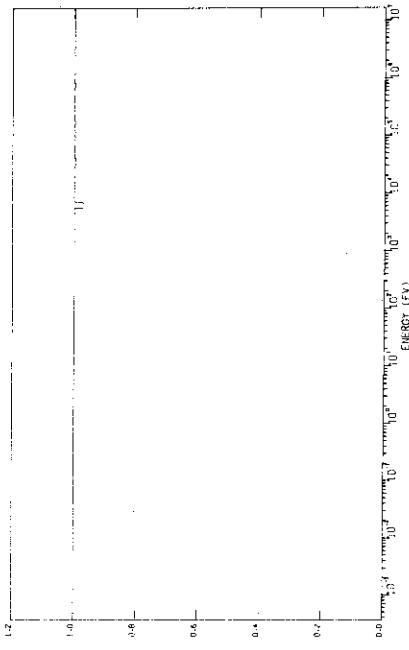
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

TOTAL

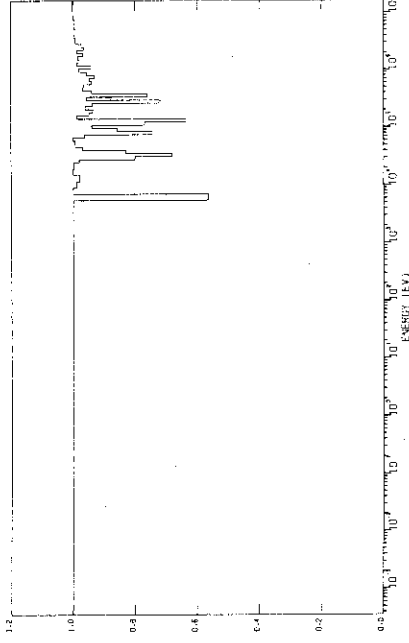
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

ELAS

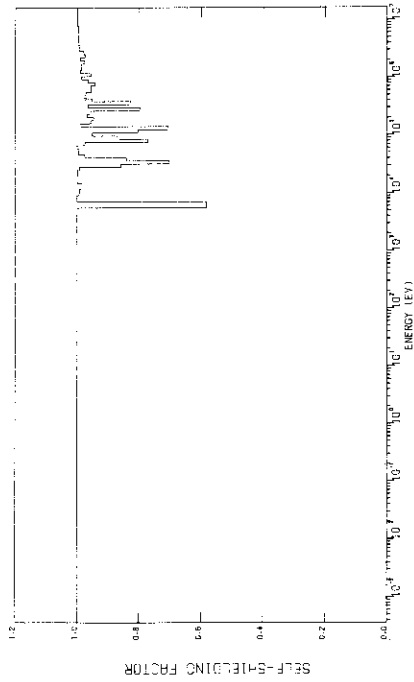
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

ELAS

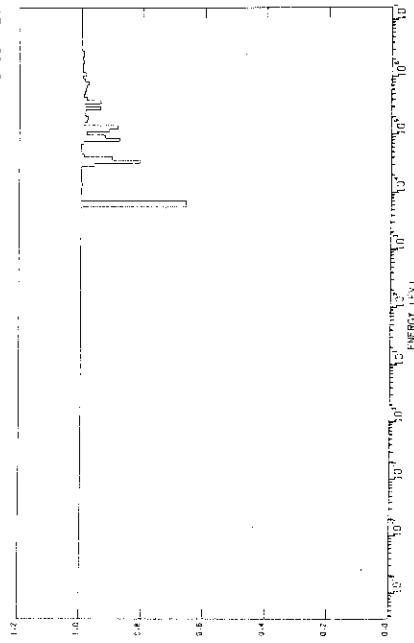
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^3$  (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

ELAS

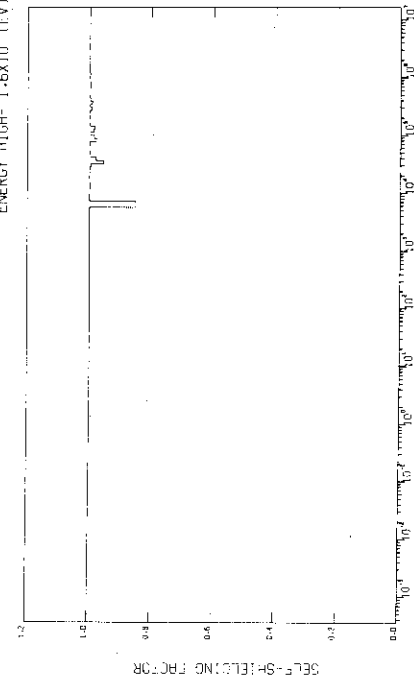
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^3$  (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

ELAS

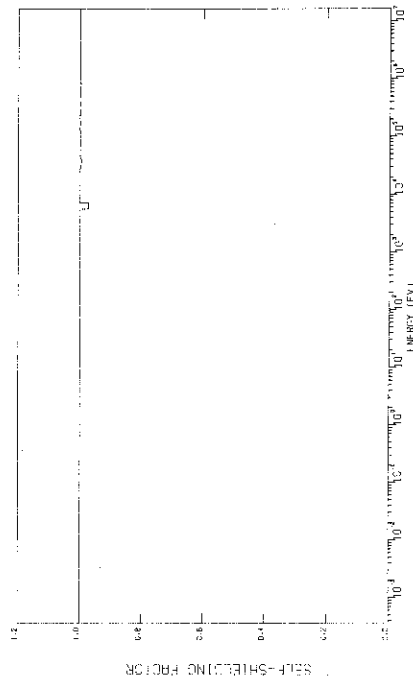
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^3$  (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

ELAS

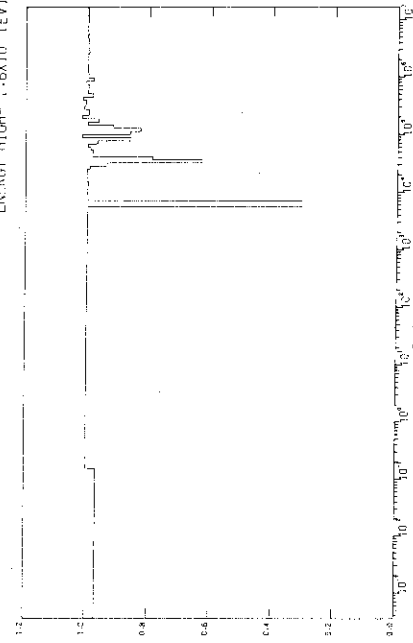
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^3$  (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

CAPTURE

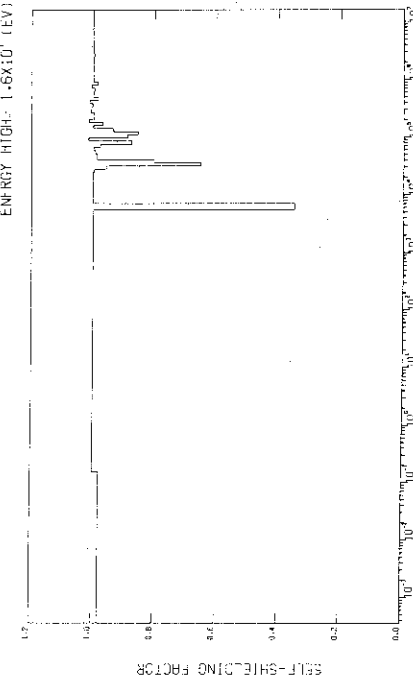
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^3$  (EV)



1193 AL-27 FROM ENDF/B-IV ( 300K )

CAPTURE

TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^3$  (EV)



1193 AL-27 FROM ENDF/B-IV : 300K :

CAPTURE

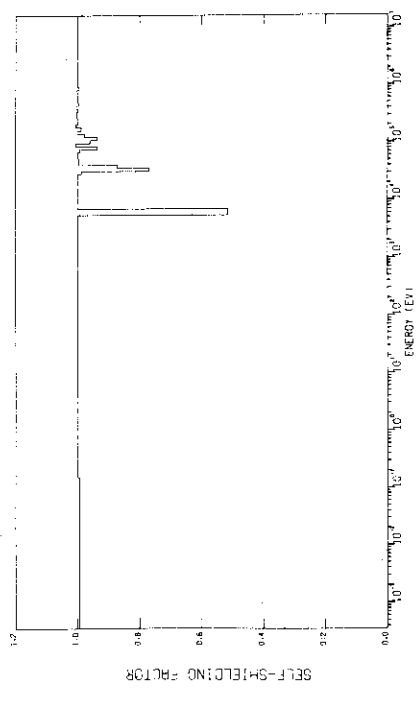
1193 AL-27 FROM ENDF/B-IV ( 300K )

CAPTURE

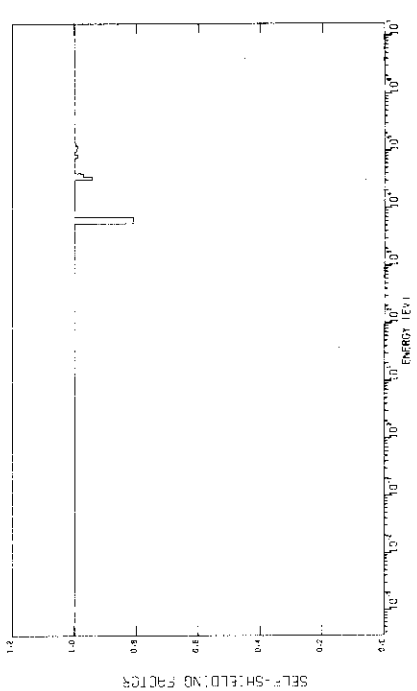
1193 AL-27 FROM ENDF/B-IV ( 300K )

CAPTURE

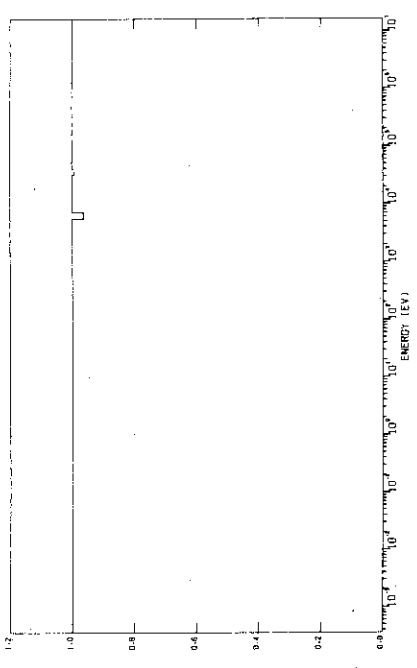
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



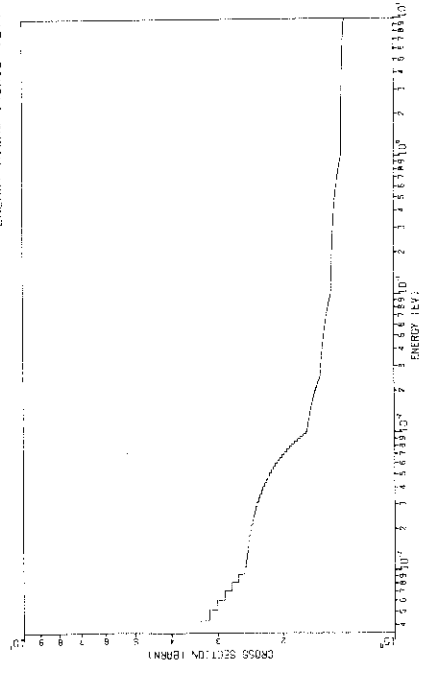
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 1

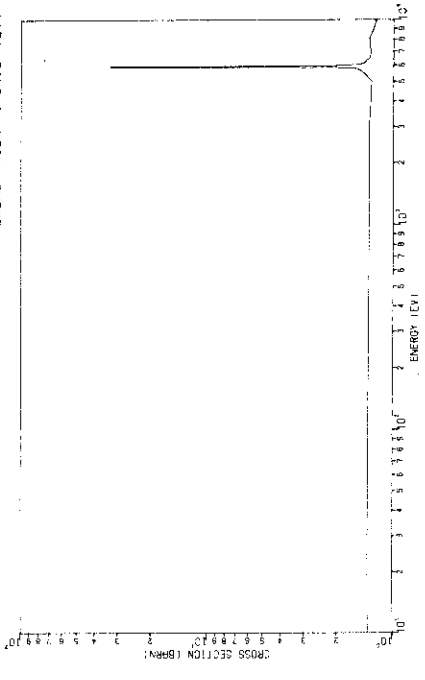
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 1

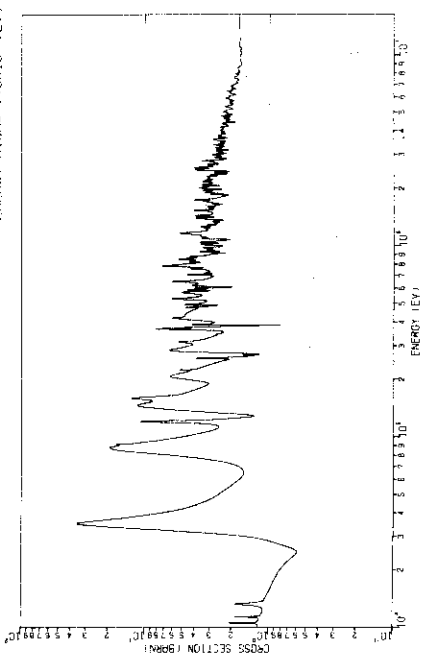
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 1

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



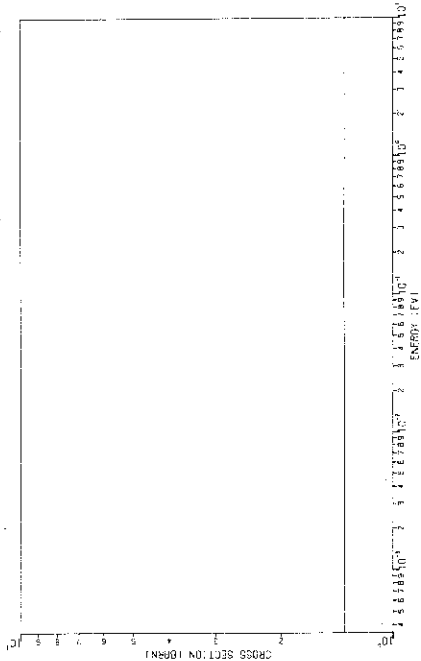
27 Al  
13  
1193

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1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 2

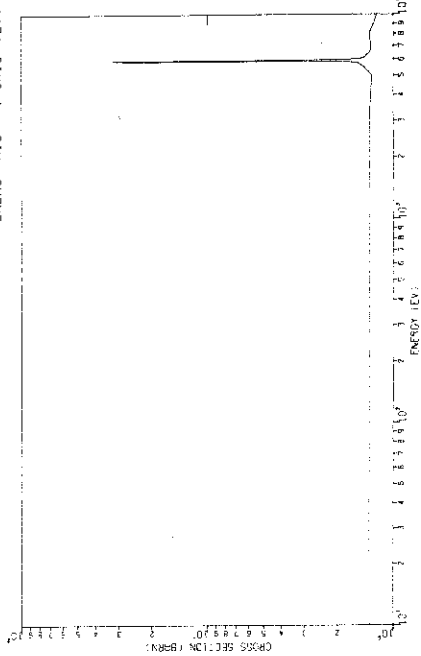
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 2

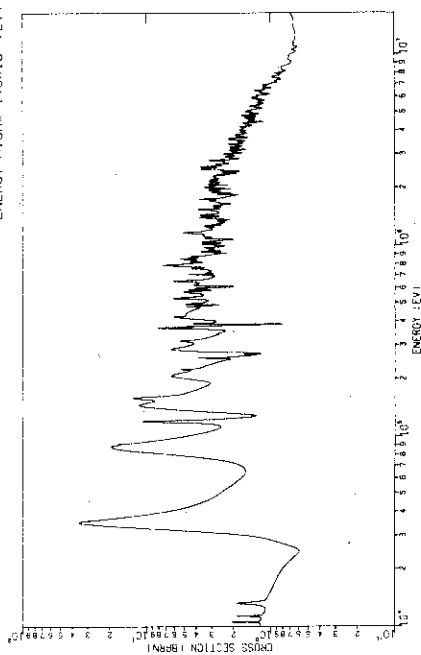
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>3</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 2

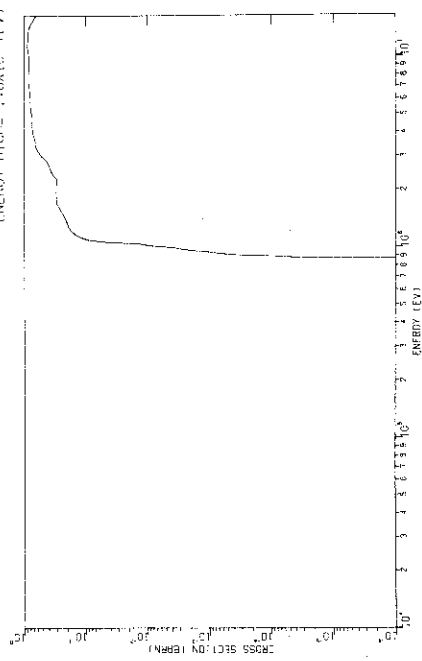
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 4

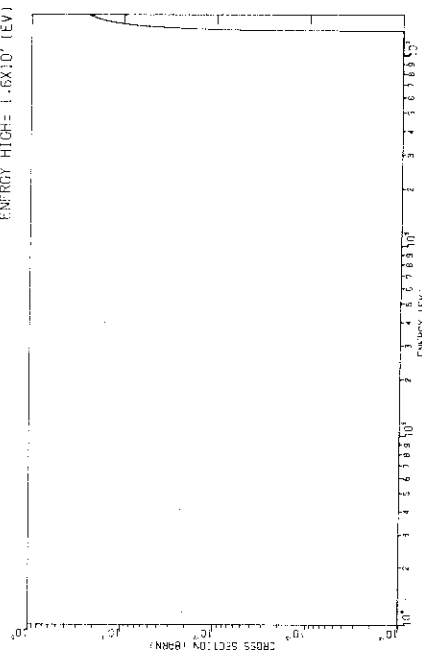
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 16

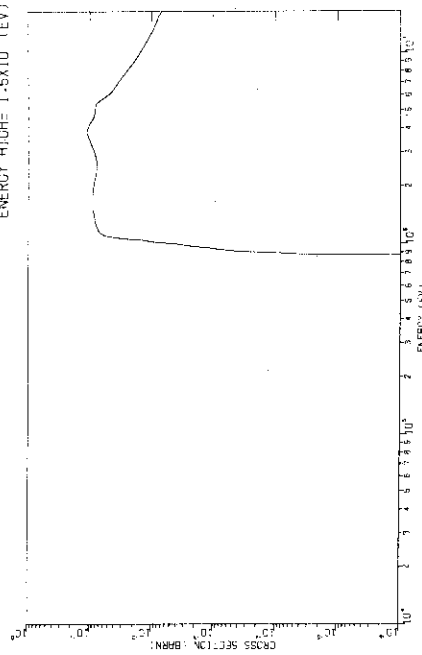
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 51

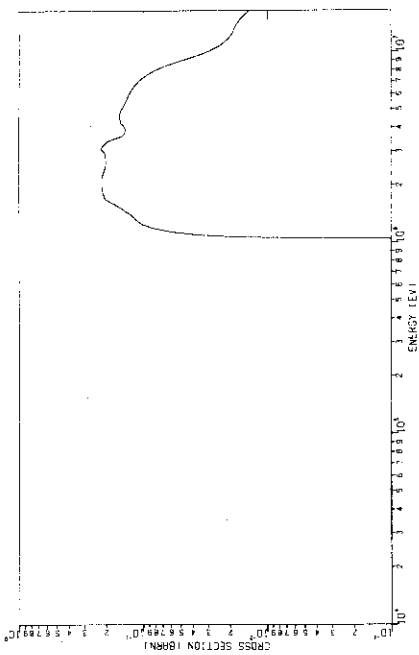
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B IV

REACTION TYPE = 52

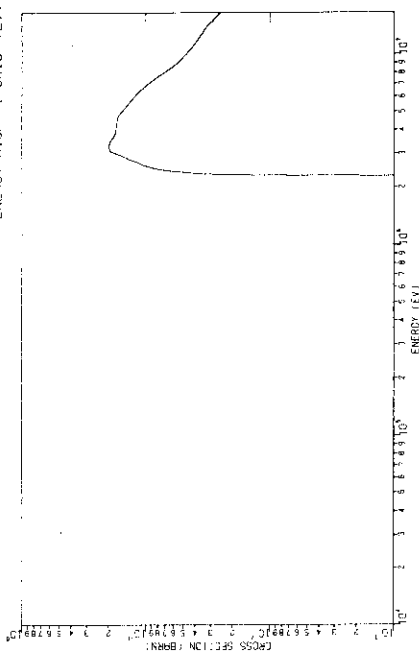
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 53

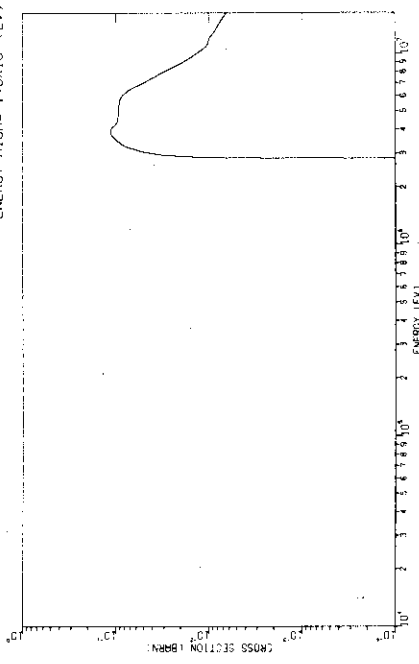
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 54

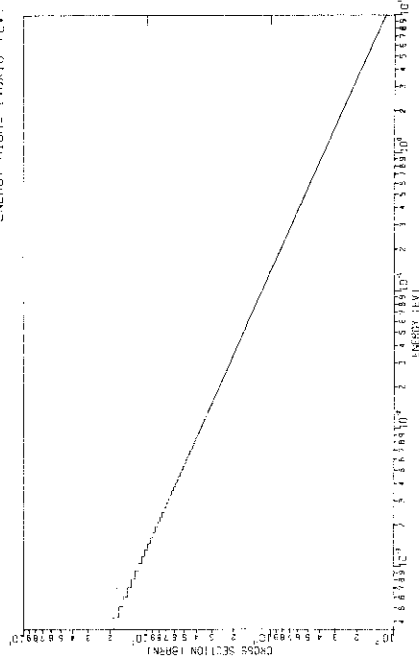
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 102

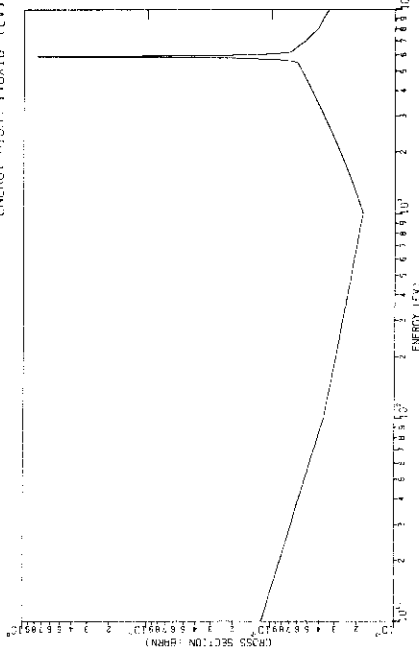
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 102

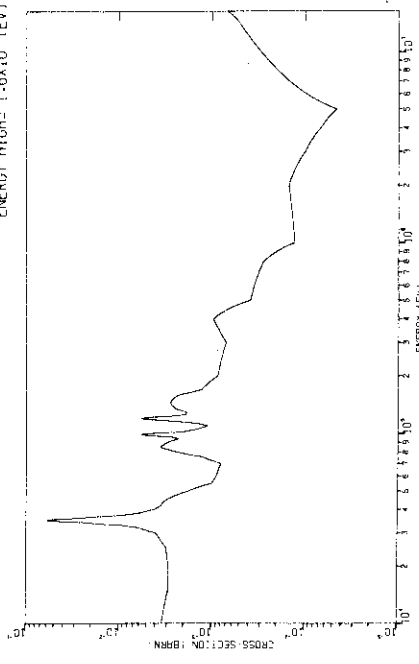
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-IV

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

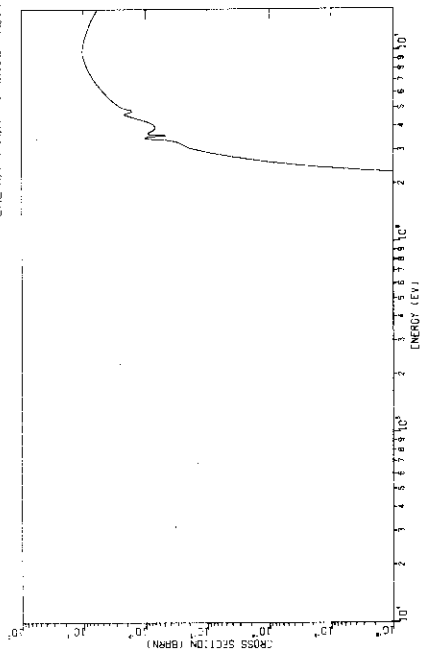




1193 AL-27 FROM ENDF/B-1V

REACTION TYPE = 103

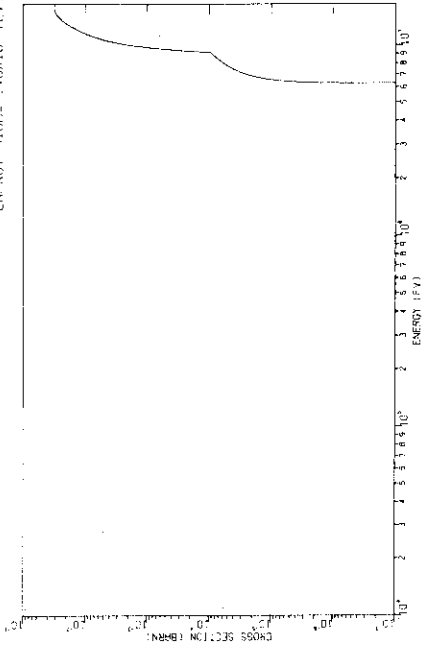
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-1V

REACTION TYPE = 104

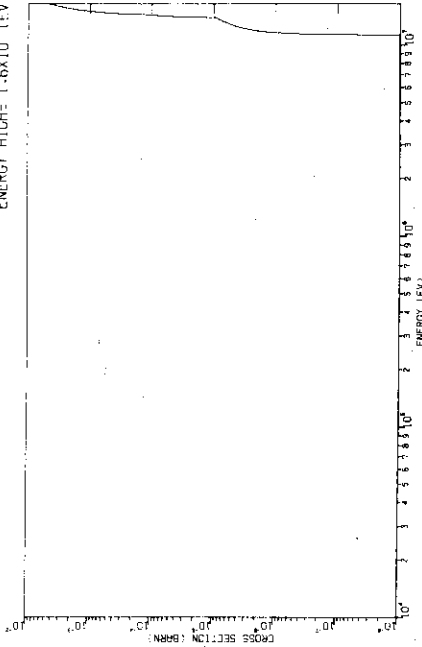
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-1V

REACTION TYPE = 105

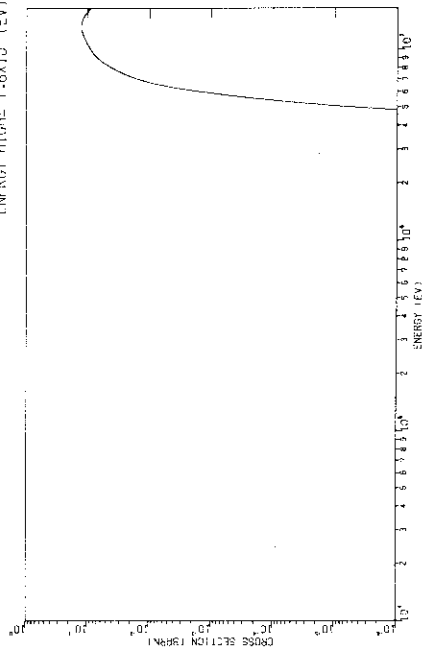
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1193 AL-27 FROM ENDF/B-1V

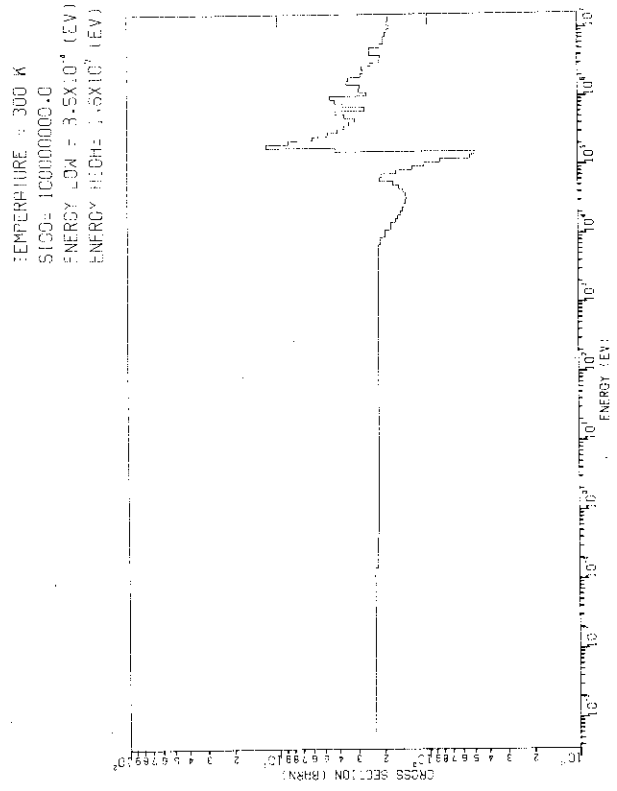
REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



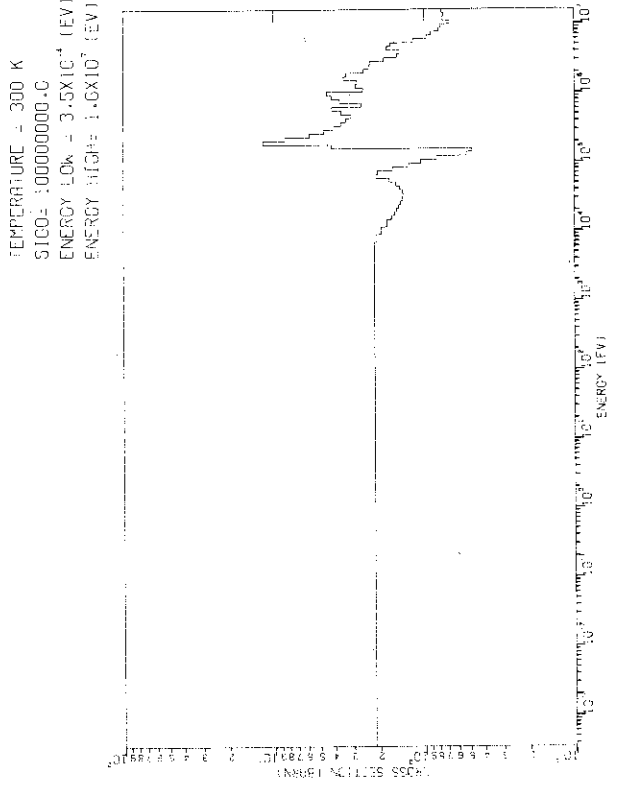
1194 SI FROM ENDF/B-IV ( 300K )

ELAS



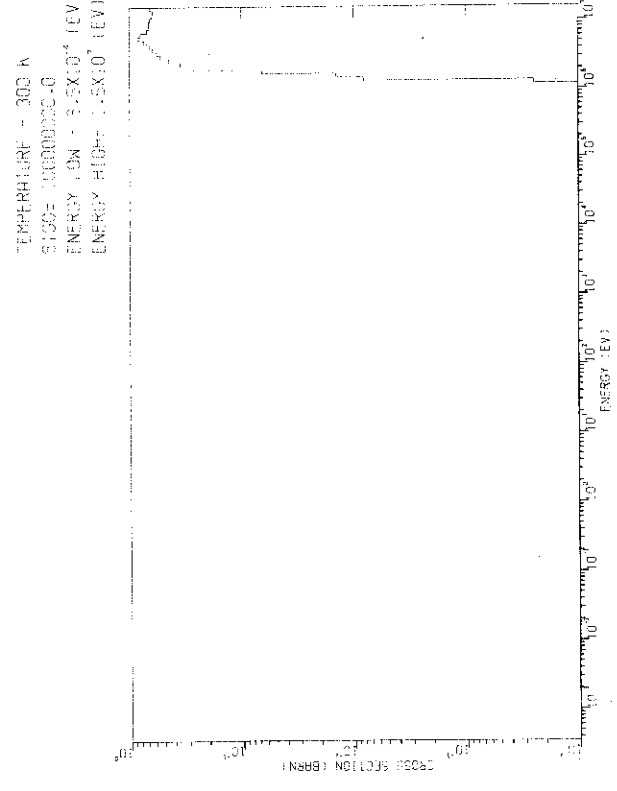
1194 SI FROM ENDF/B-IV ( 300K )

ELAS



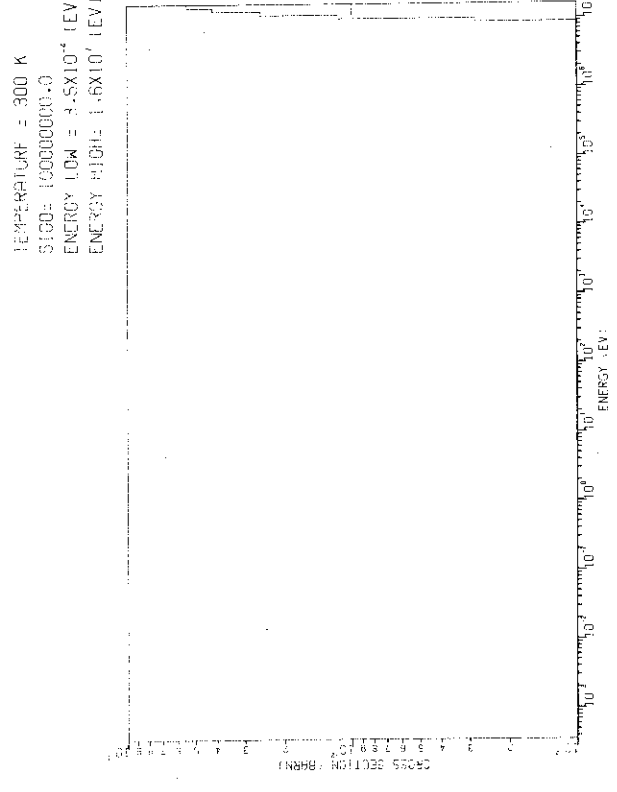
1194 SI FROM ENDF/B-IV ( 300K )

ELAS



1194 SI FROM ENDF/B-IV ( 300K )

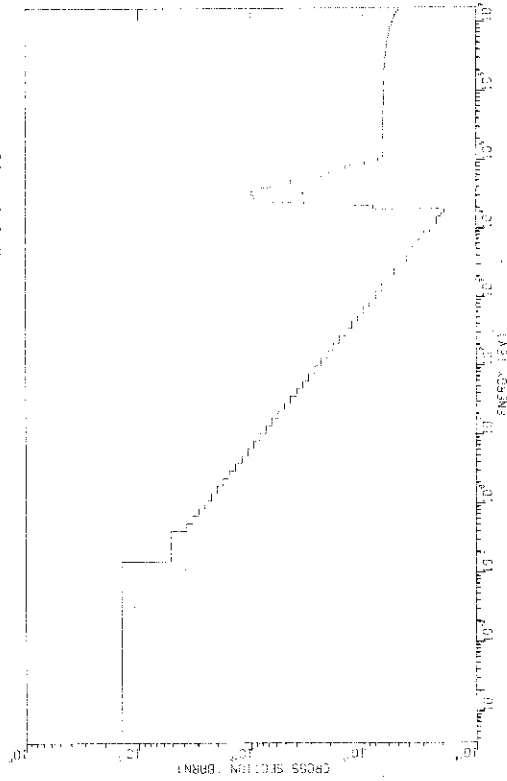
(N,2N)



1194 SI FROM ENDF/B-IV ( 300K )

( N.P )

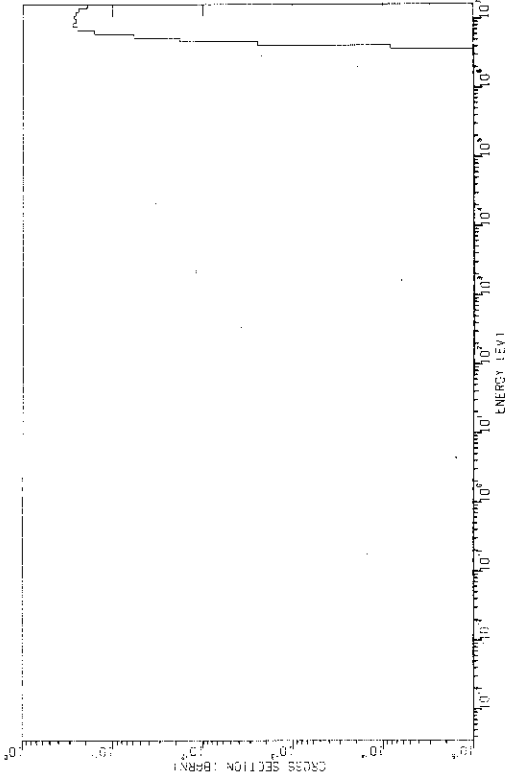
TEMPERATURE = 300 K  
SI(0) = 1.00000000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

( N.P )

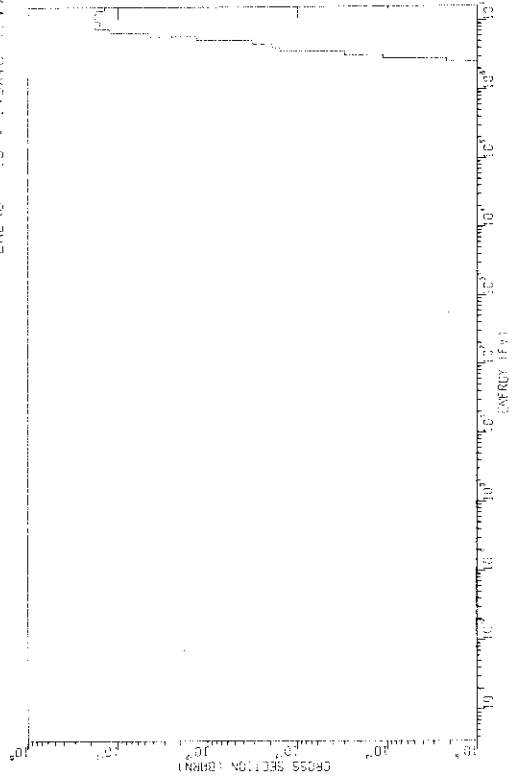
TEMPERATURE = 300 K  
SI(0) = 1.00000000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

( N.P )

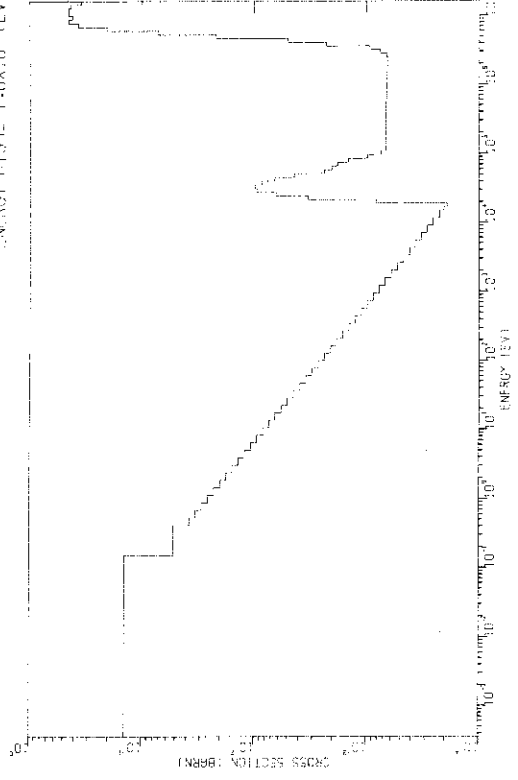
TEMPERATURE = 300 K  
SI(0) = 1.00000000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

CAPTURE

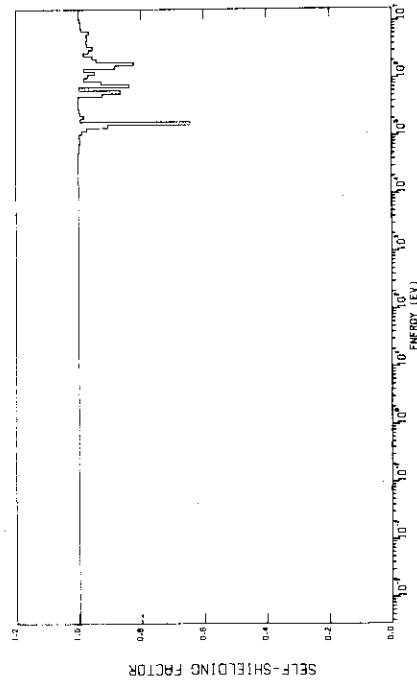
TEMPERATURE = 300 K  
SI(0) = 1.00000000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

TOTAL

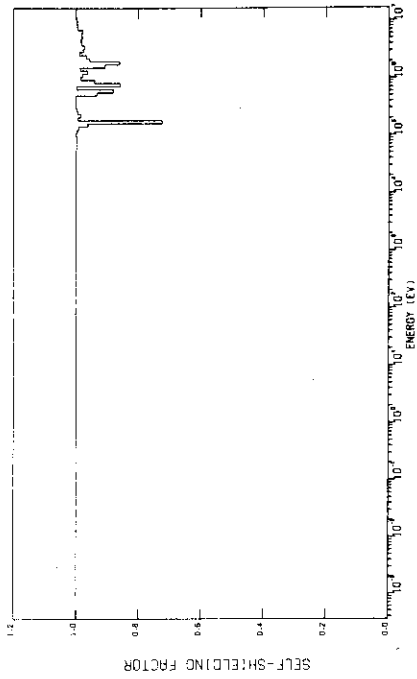
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

TOTAL

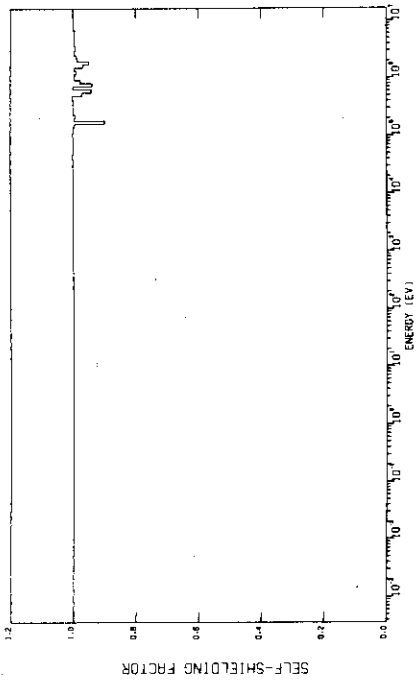
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

TOTAL

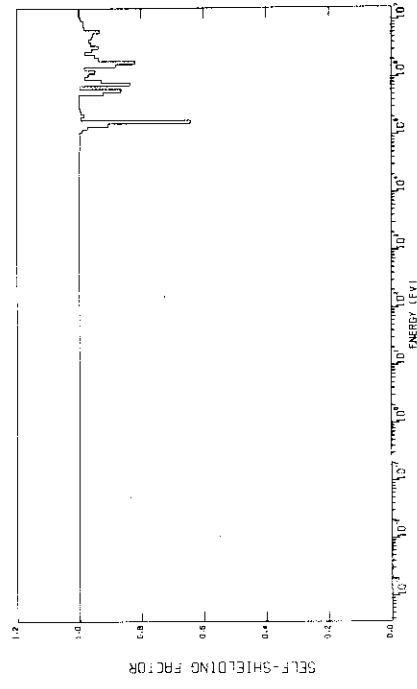
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

ELAS

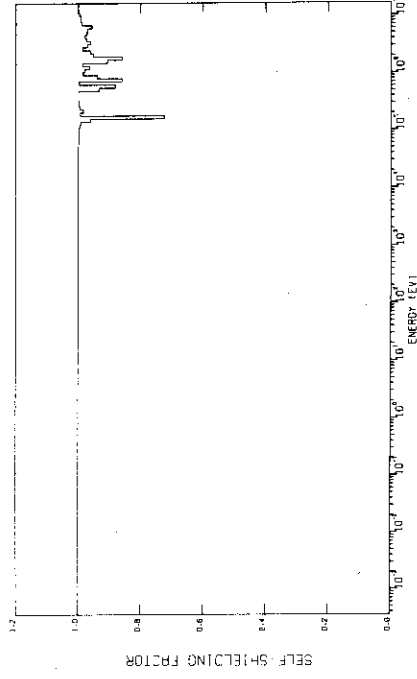
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

ELAS

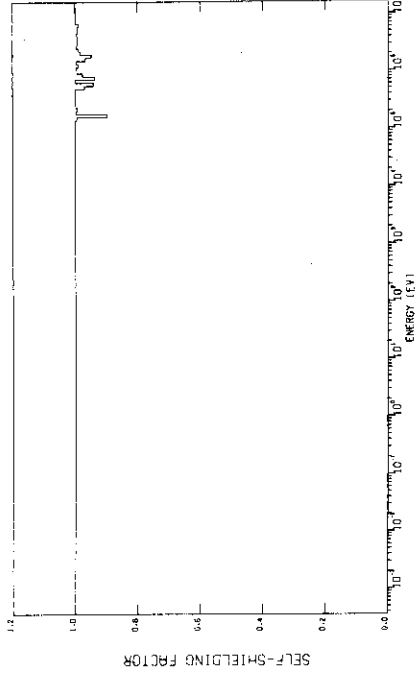
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

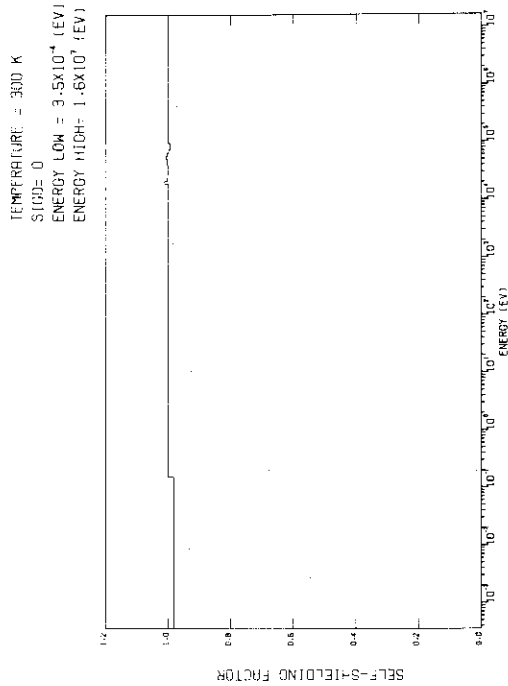
ELAS

TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



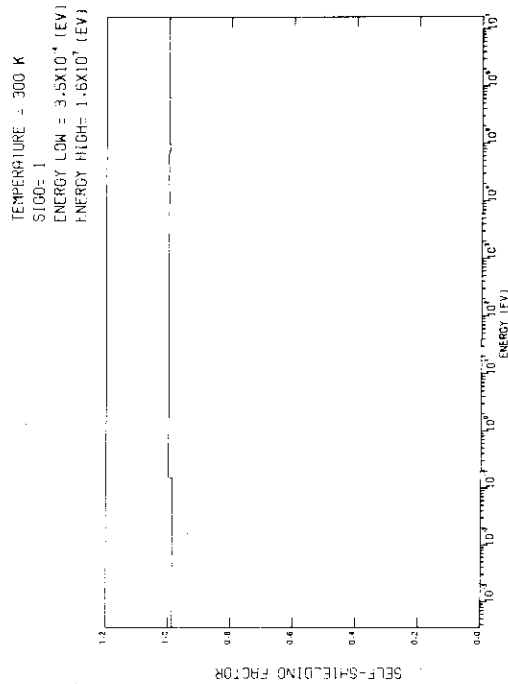
1194 SI FROM ENDF/B-IV ( 300K )

CAPTURE



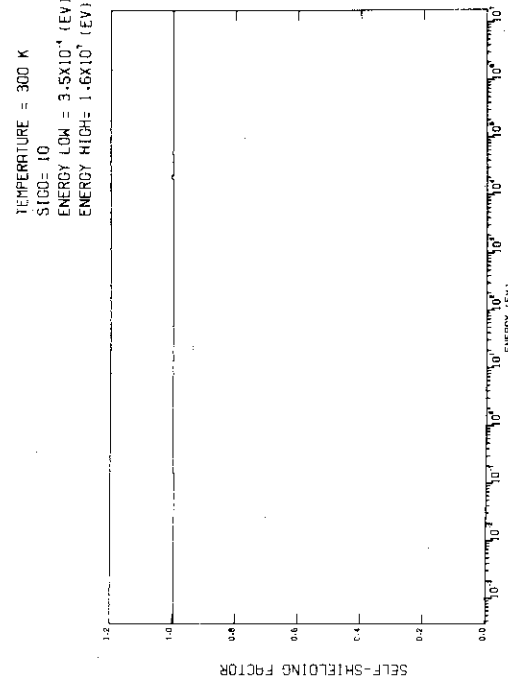
1194 SI FROM ENDF/B-IV ( 300K )

CAPTURE



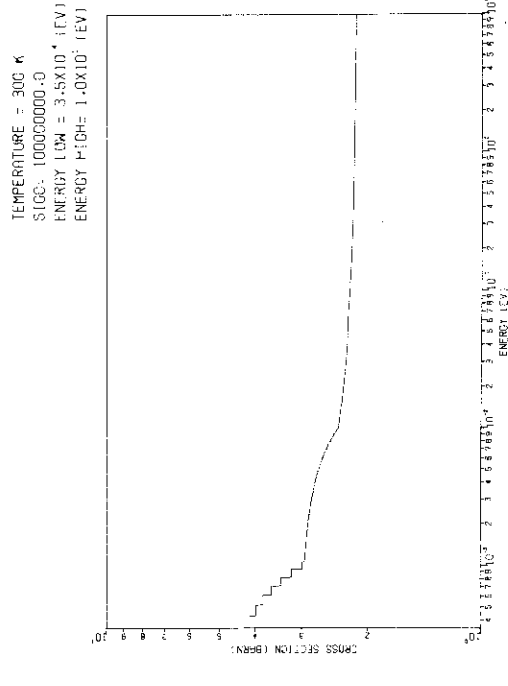
1194 SI FROM ENDF/B-IV ( 300K )

CAPTURE



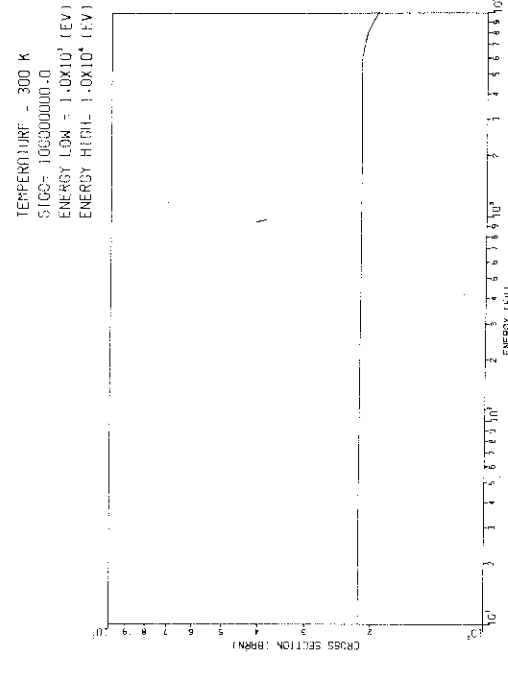
1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1



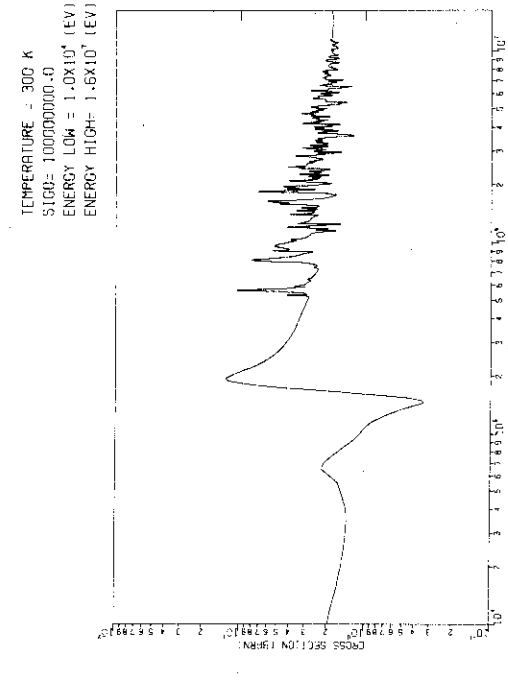
1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1



1194 SI FROM ENDF/B-IV ( 300K )

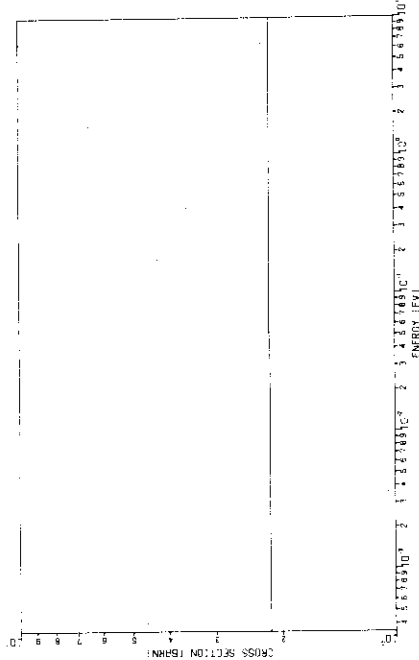
REACTION TYPE = 1



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

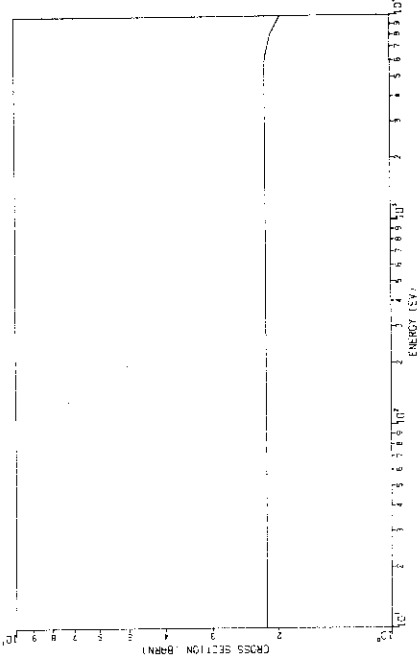
TEMPERATURE = 300 K  
SI(0) = 1.00000000E+00  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

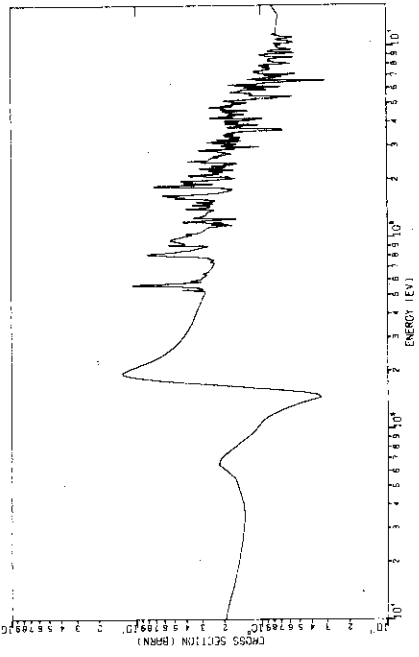
TEMPERATURE = 300 K  
SI(0) = 1.00000000E+00  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

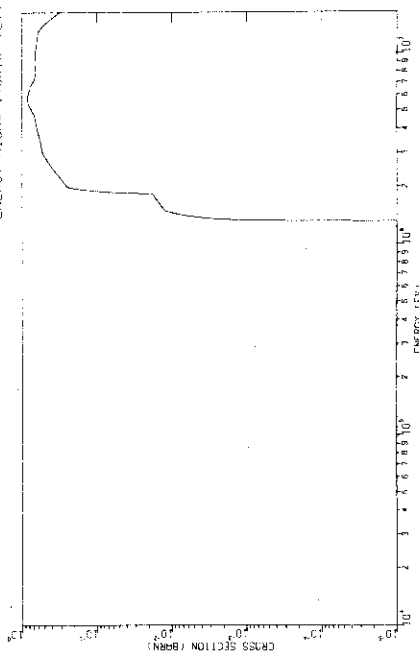
TEMPERATURE = 300 K  
SI(0) = 1.00000000E+00  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 4

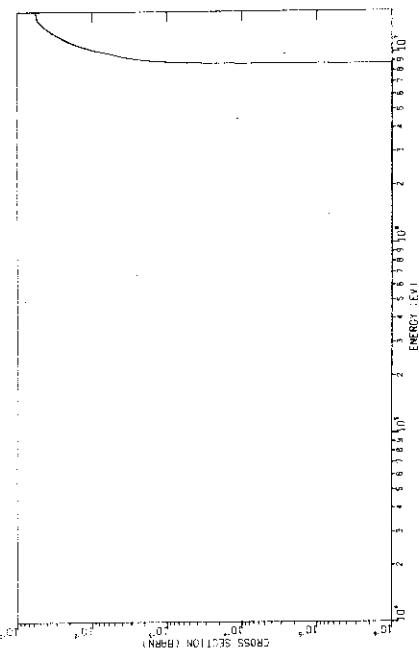
TEMPERATURE = 300 K  
SI(0) = 1.00000000E+00  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 16

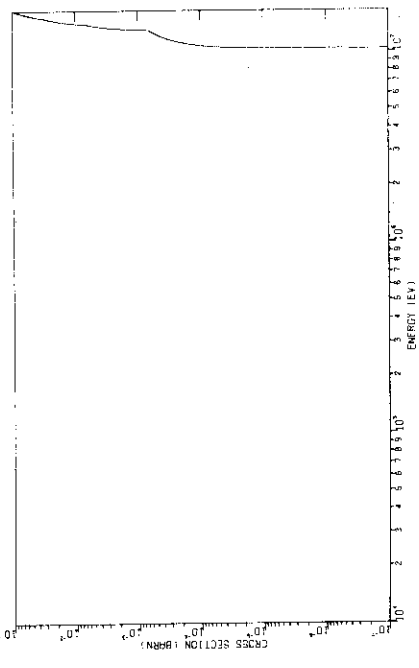
TEMPERATURE = 300 K  
SI(0) = 1.00000000E+00  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 22

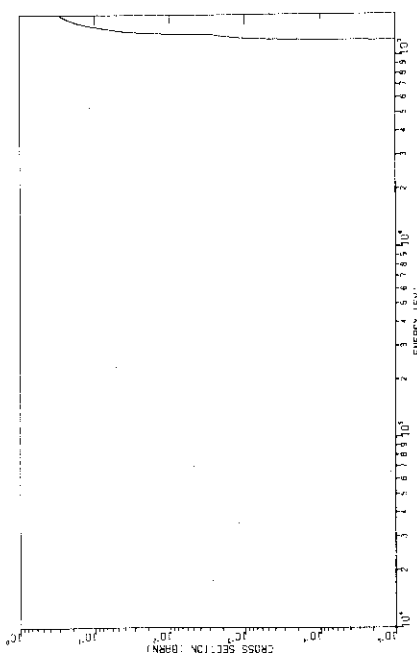
TEMPERATURE = 300 K  
SI(0) = 1.00000000E+00  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2B

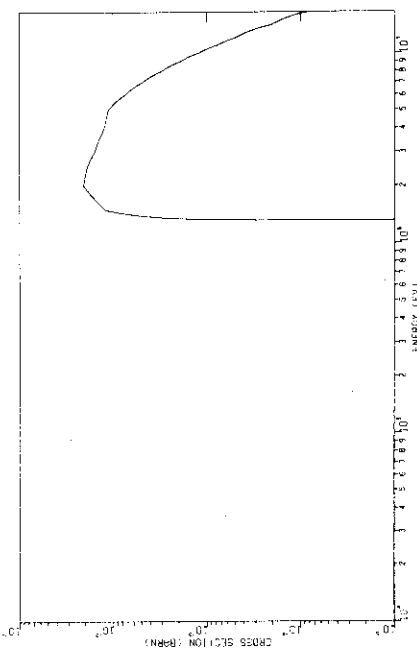
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 5J

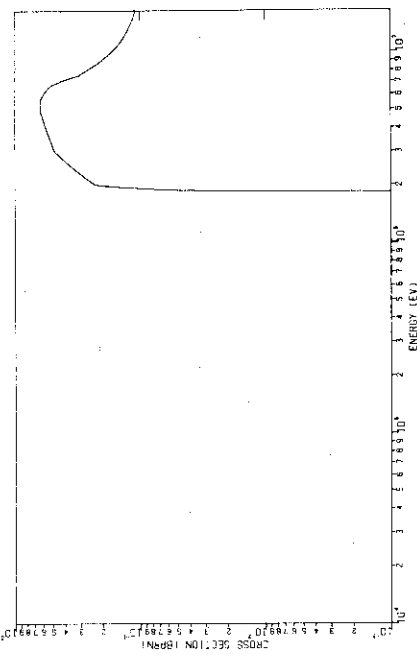
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 5Z

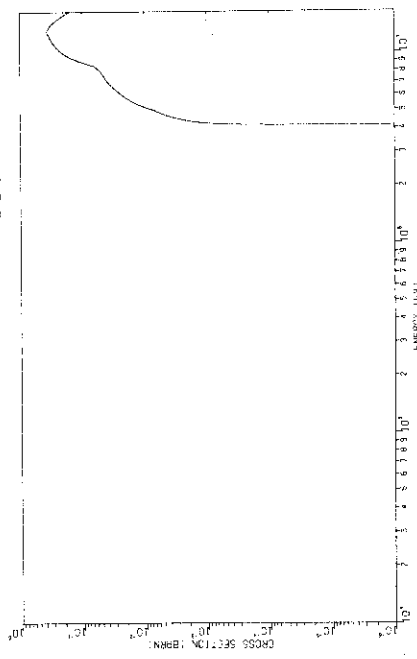
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 9I

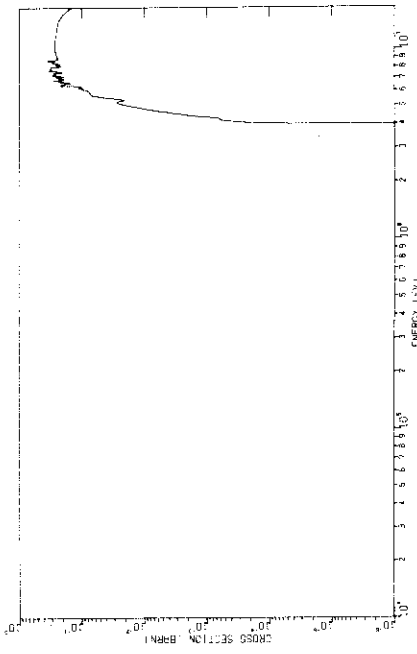
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 10J

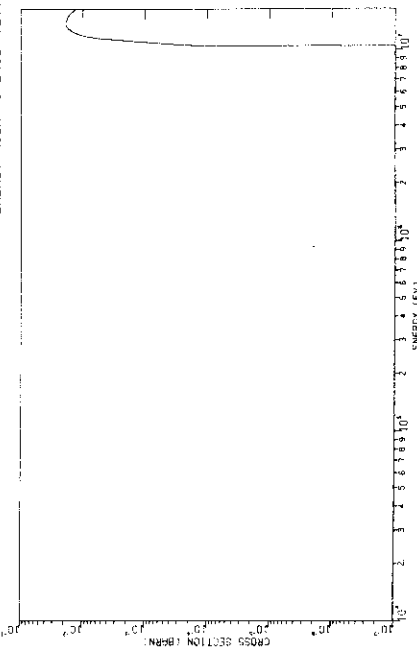
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1194 SI FROM ENDF/B-IV ( 300K )

REACTION TYPE = 10A

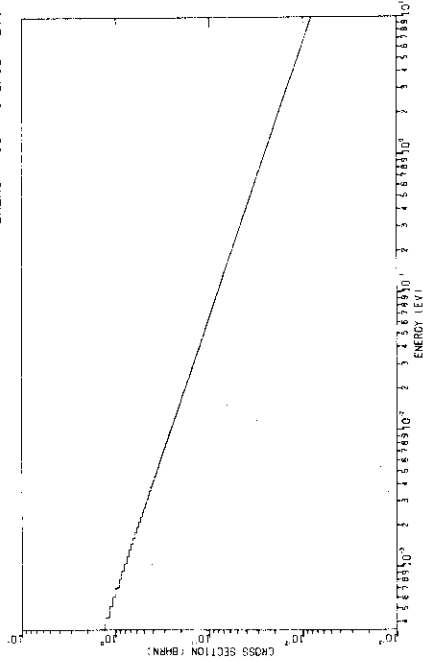
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1194 SJ FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

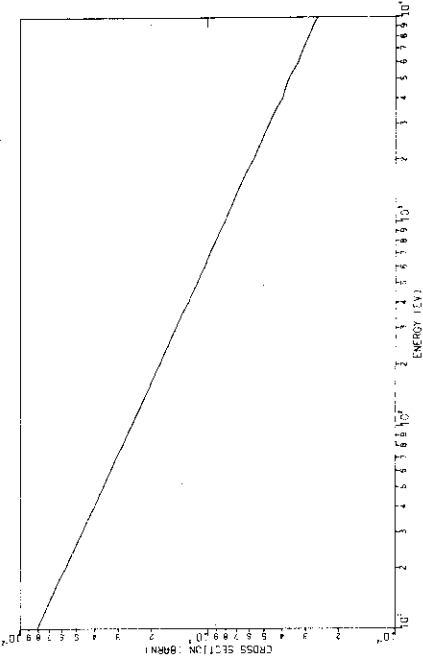
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1194 SJ FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

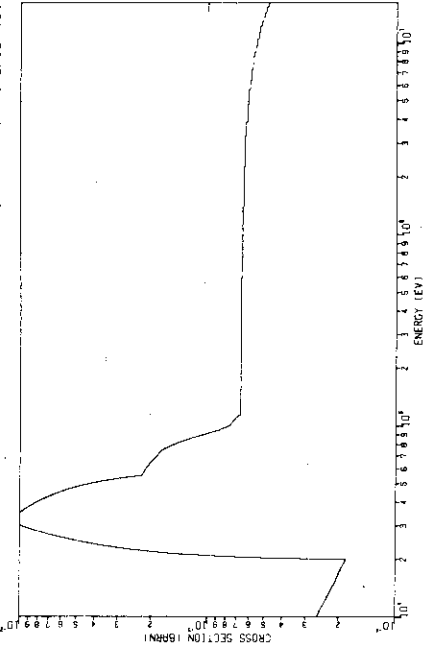
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)



1194 SJ FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

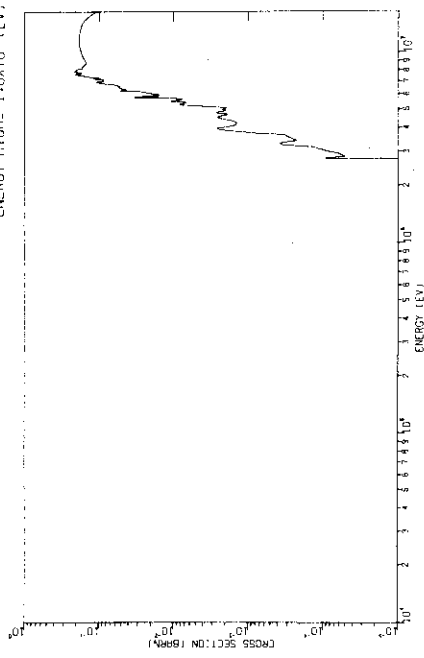
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1194 SJ FROM ENDF/B-IV ( 300K )

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)





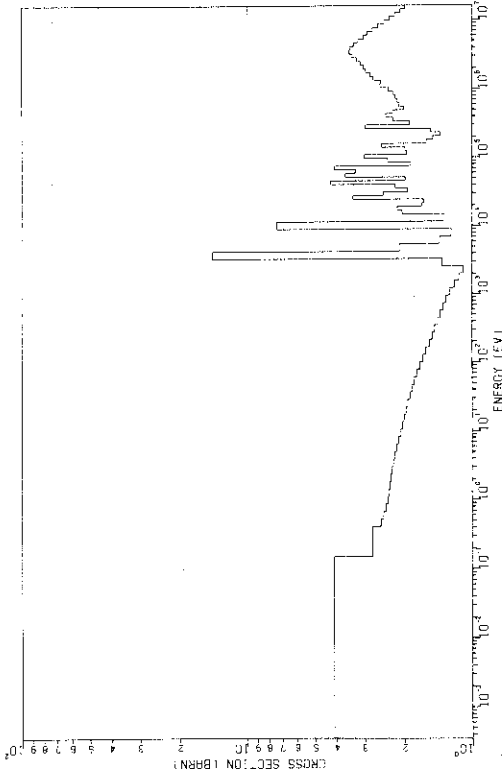
1150 K FROM ENDF/B-IV ( 300K )

TOTAL

1150 K FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

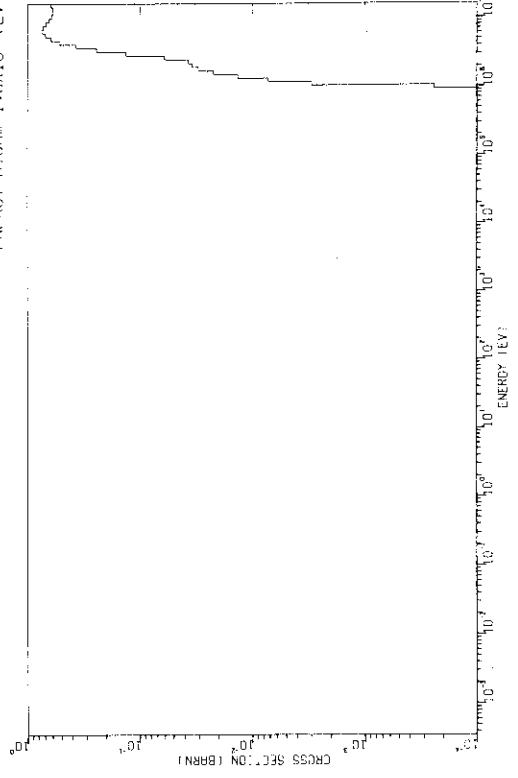


1150 K FROM ENDF/B-IV ( 300K )

INELAS

(N,2N)

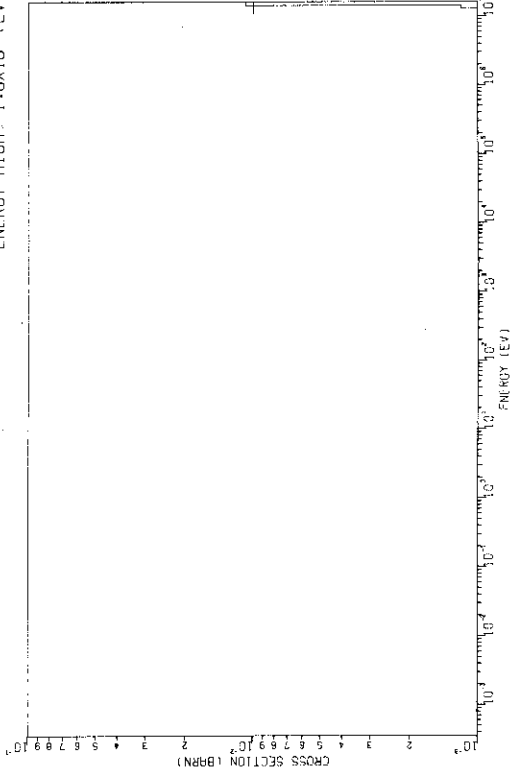
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

(N,2N)

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

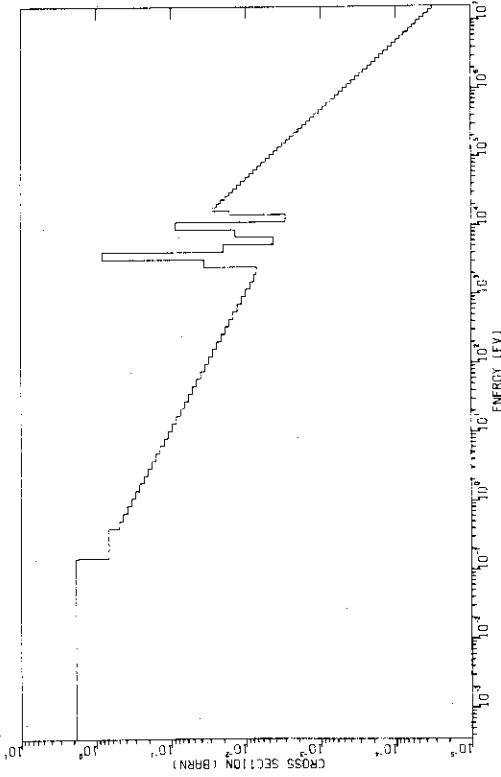
( N,G )

TEMPERATURE = 300 K

SIG0= 100000000

ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)

ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1150 K FROM ENDF/B-IV ( 300K )

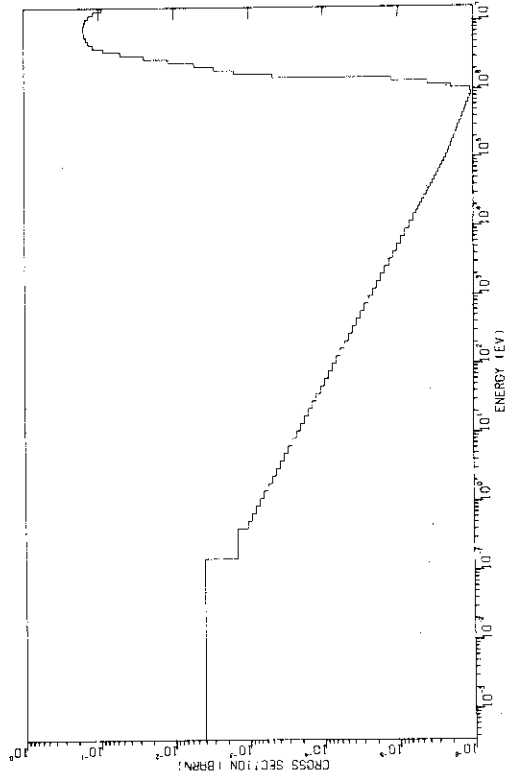
( N,A )

TEMPERATURE = 300 K

SIG0= 100000000

ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)

ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1150 K FROM ENDF/B-IV ( 300K )

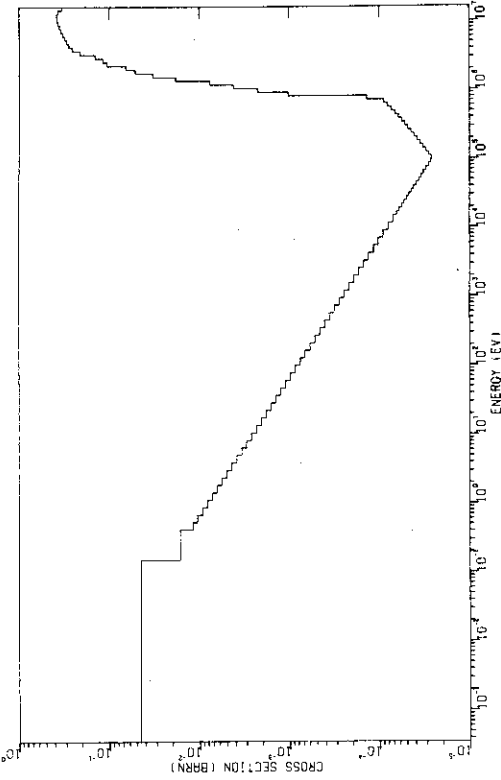
( N,P )

TEMPERATURE = 300 K

SIG0= 100000000

ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)

ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1150 K FROM ENDF/B-IV ( 300K )

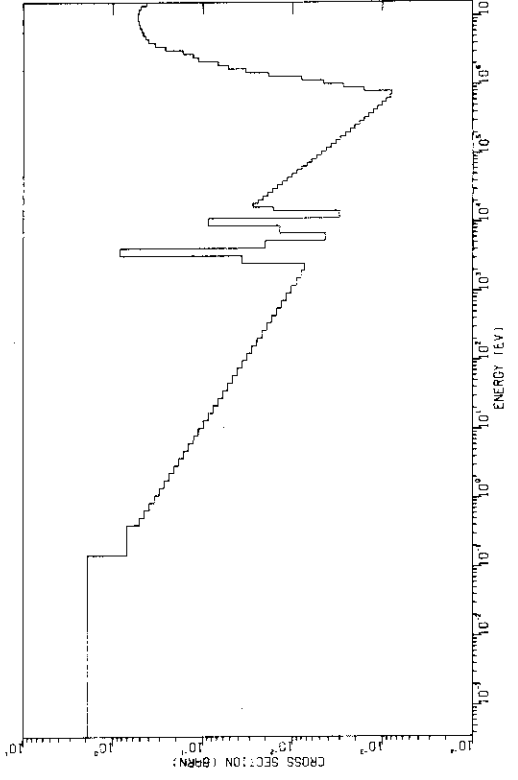
CAPTURE

TEMPERATURE = 300 K

SIG0= 100000000

ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)

ENERGY HIGH=  $1.6 \times 10^7$  (EV)

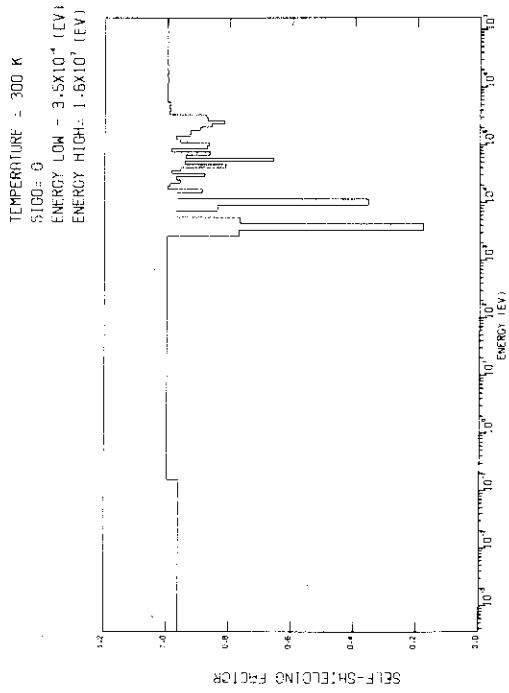


19 K  
1150

JAERI-M 84-053

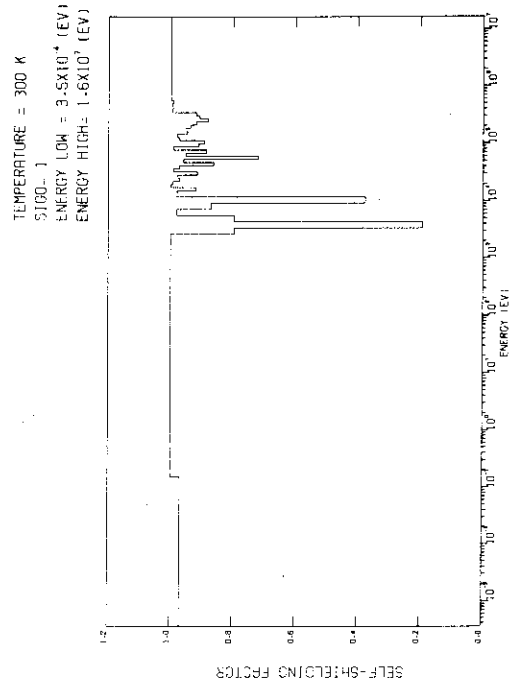
1150 K FROM ENDF/B-IV ( 300K )

TOTAL



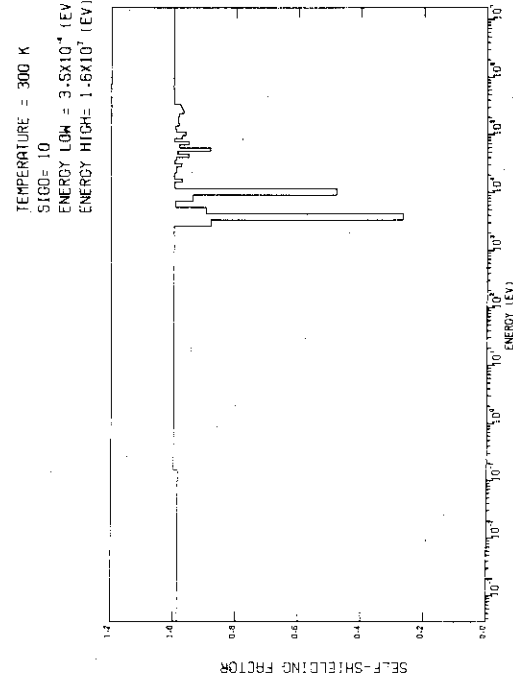
1150 K FROM ENDF/B-IV ( 300K )

TOTAL



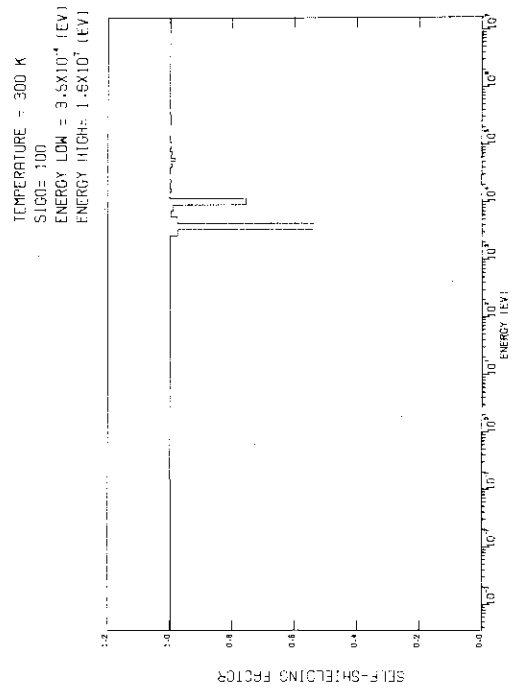
1150 K FROM ENDF/B-IV ( 300K )

TOTAL



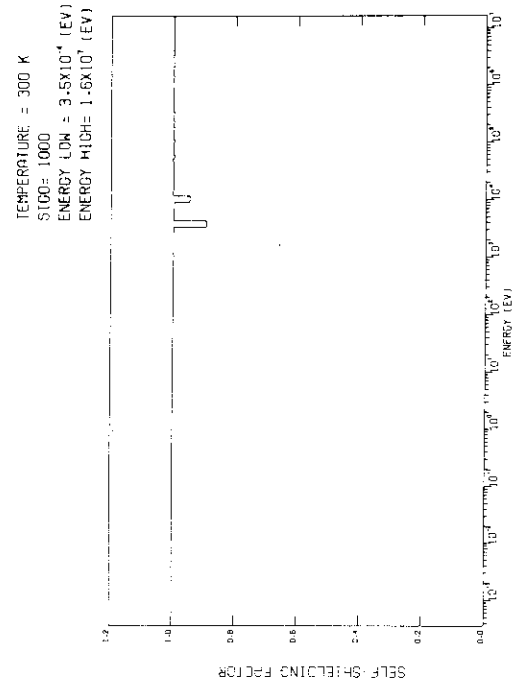
1150 K FROM ENDF/B-IV ( 300K )

TOTAL



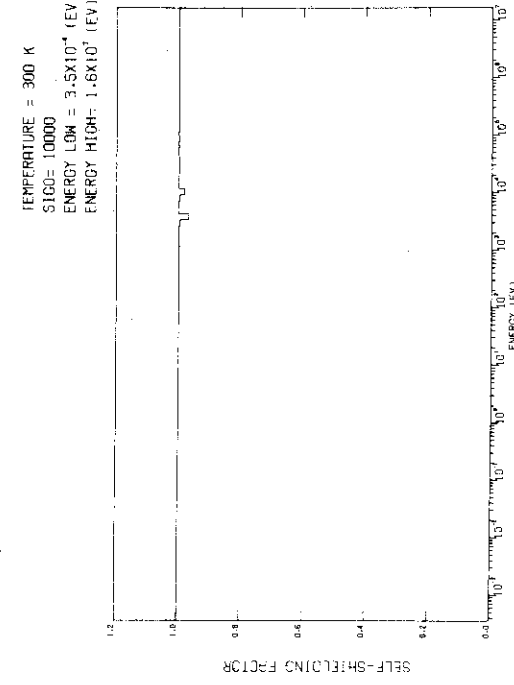
1150 K FROM ENDF/B-IV ( 300K )

TOTAL



1150 K FROM ENDF/B-IV ( 300K )

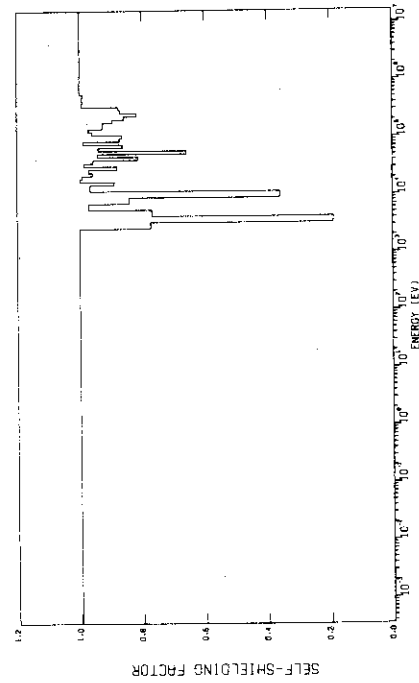
TOTAL



1150 K FROM ENDF/B-IV ( 300K )

ELAS

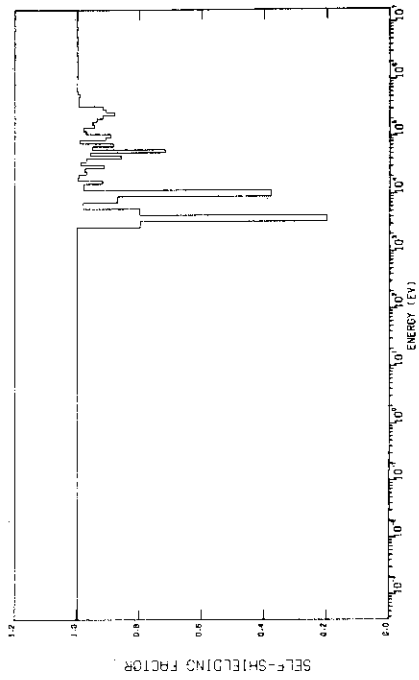
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>3</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

ELAS

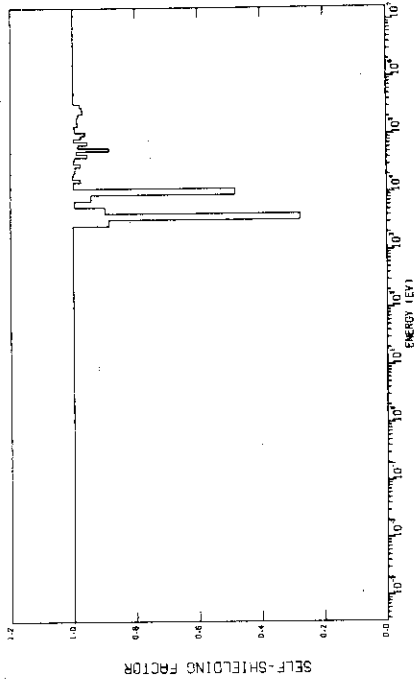
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>3</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

ELAS

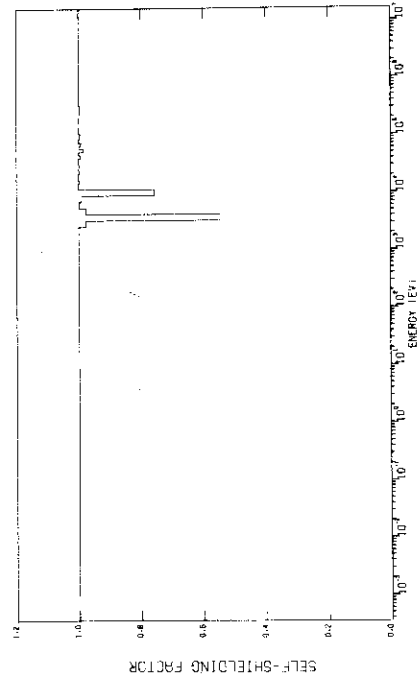
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>3</sup> (EV)



1150 K FROM ENDF/B ( V ( 300K )

ELAS

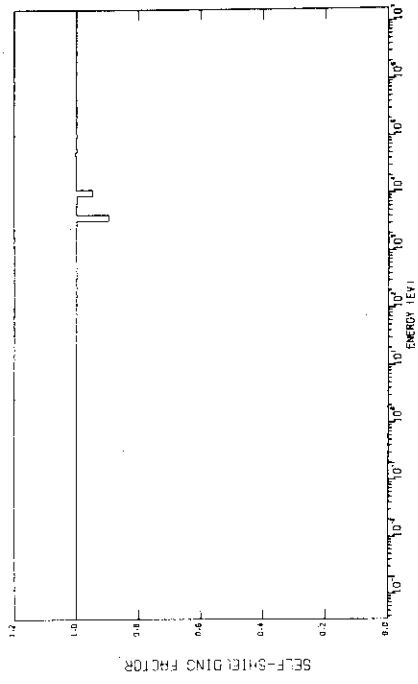
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>3</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

ELAS

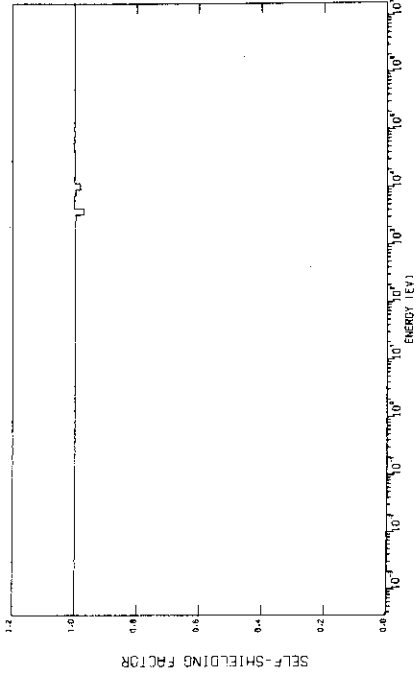
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>3</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

ELAS

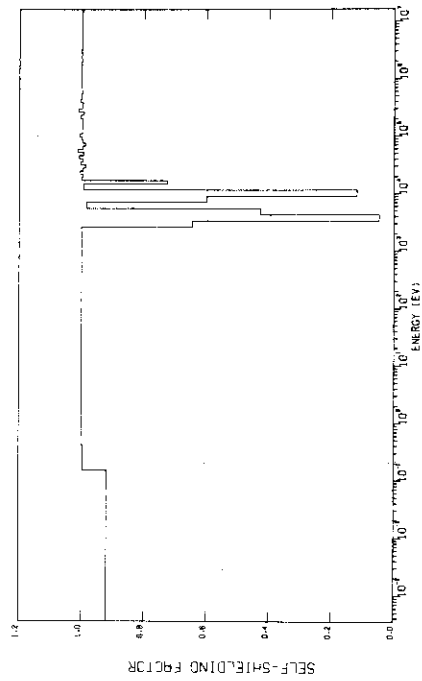
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>3</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

CAPTURE

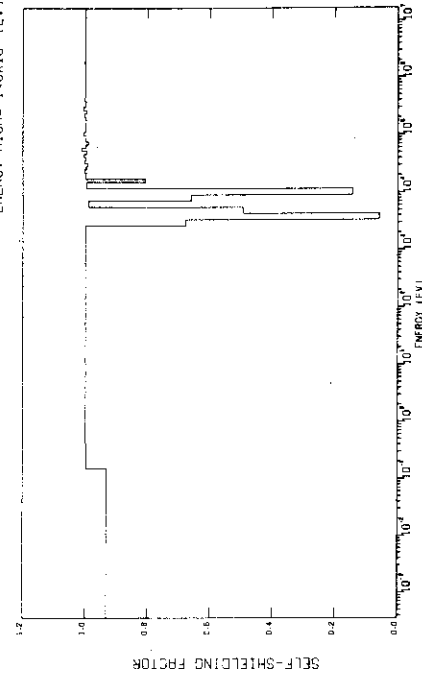
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

CAPTURE

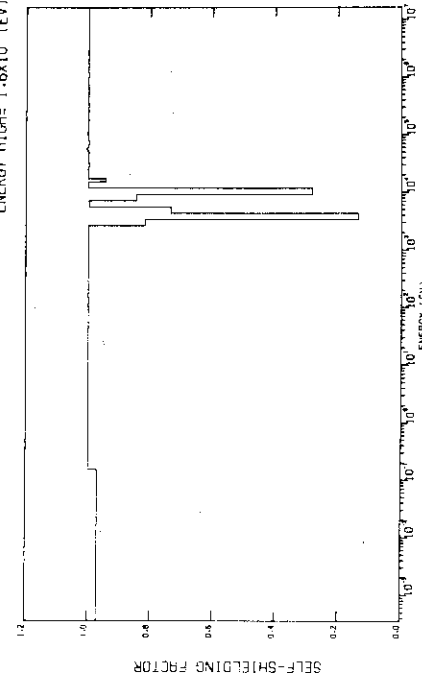
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

CAPTURE

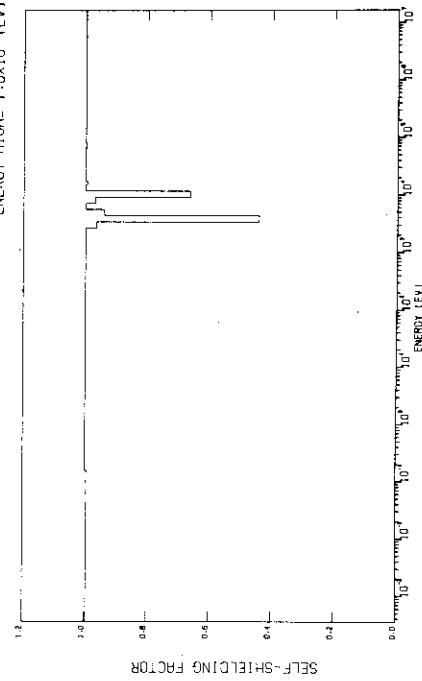
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

CAPTURE

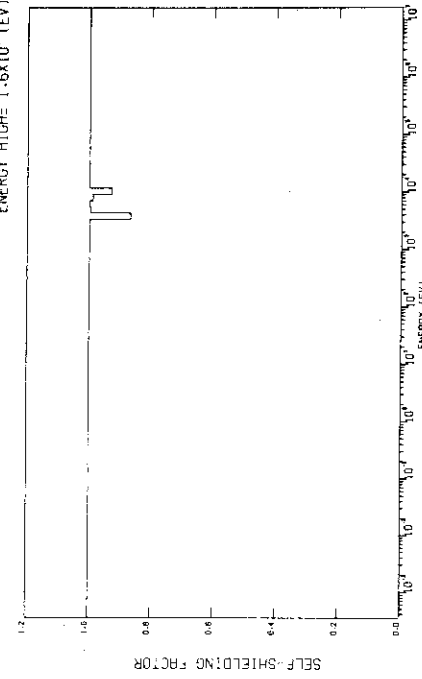
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

CAPTURE

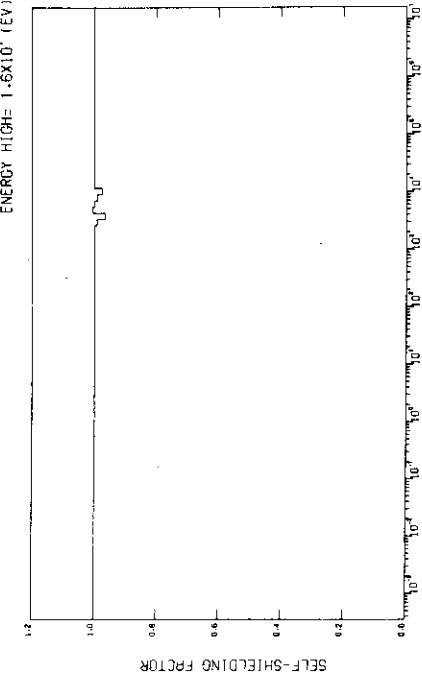
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV ( 300K )

CAPTURE

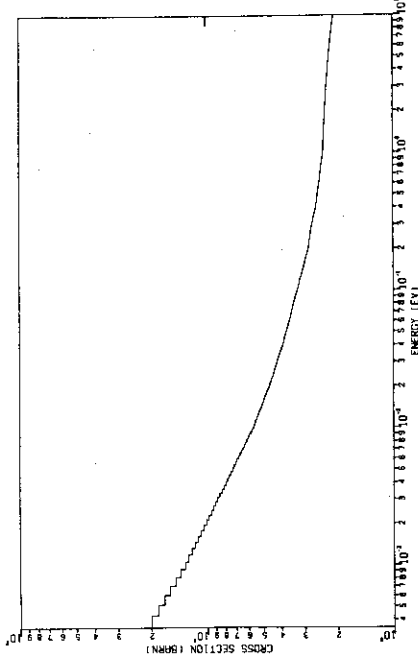
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 1

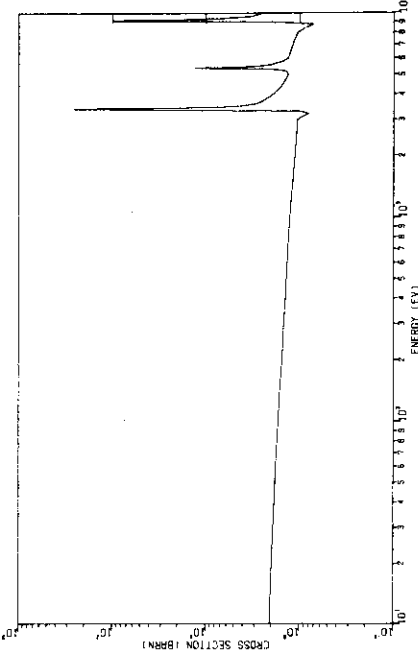
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 1

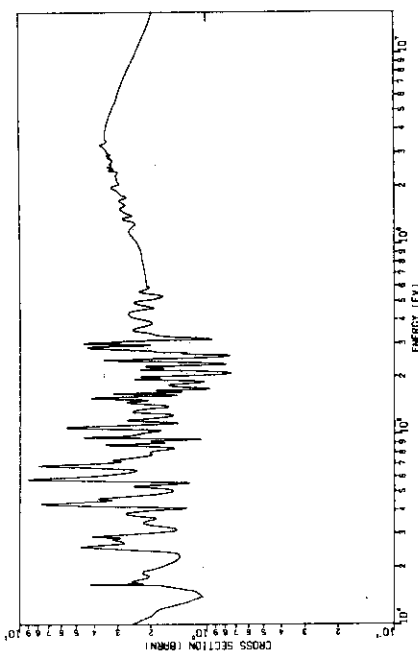
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 1

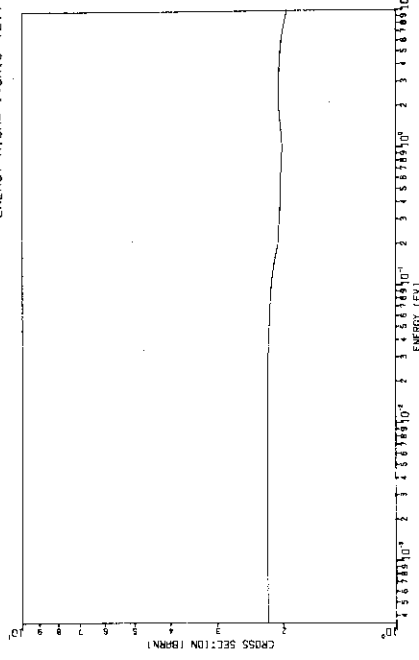
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 2

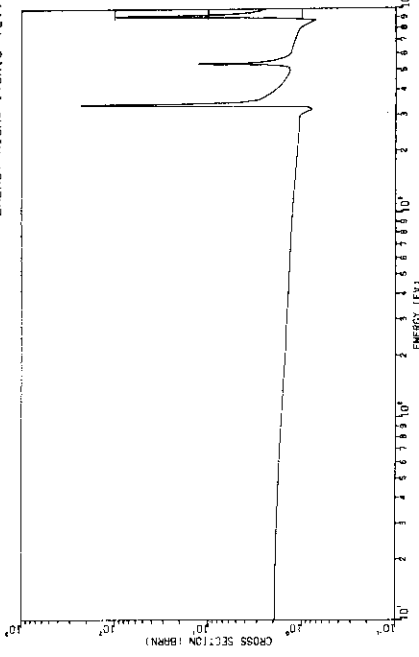
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 2

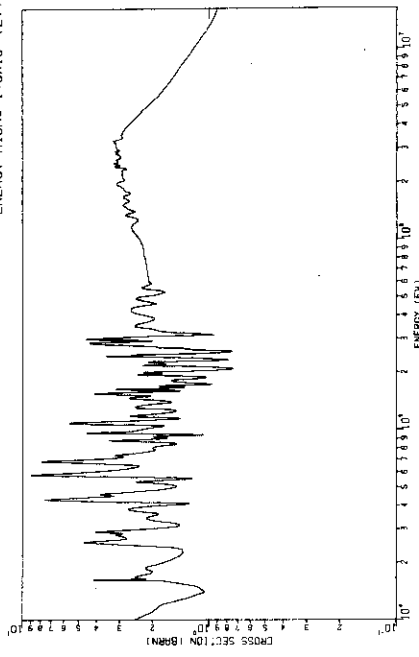
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 2

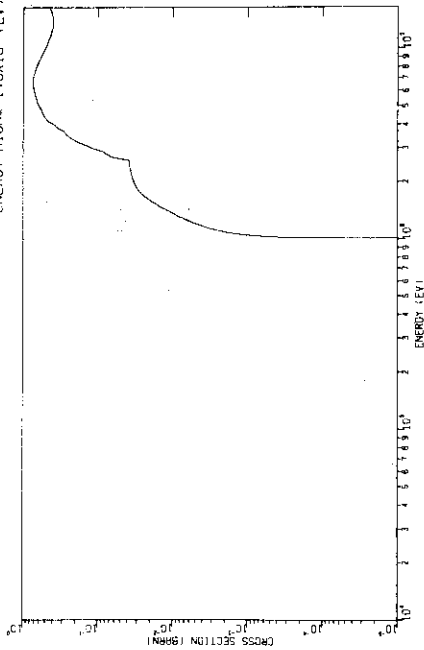
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 4

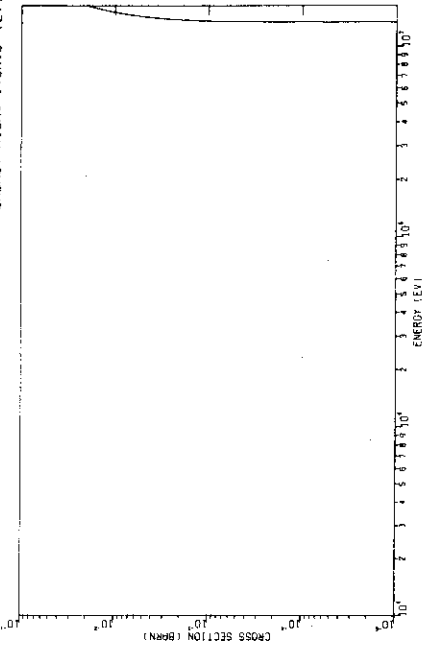
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 16

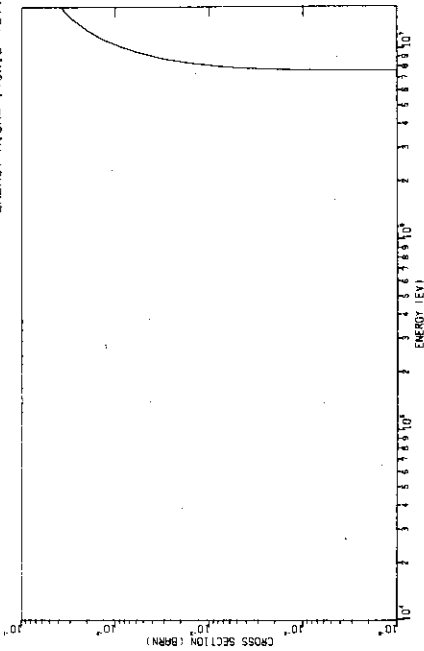
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 22

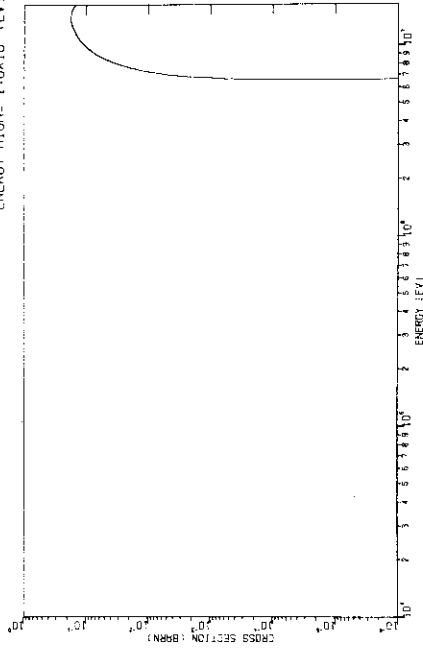
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 28

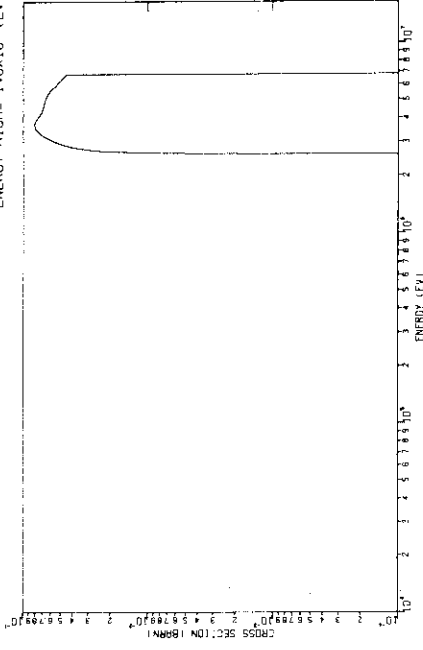
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 51

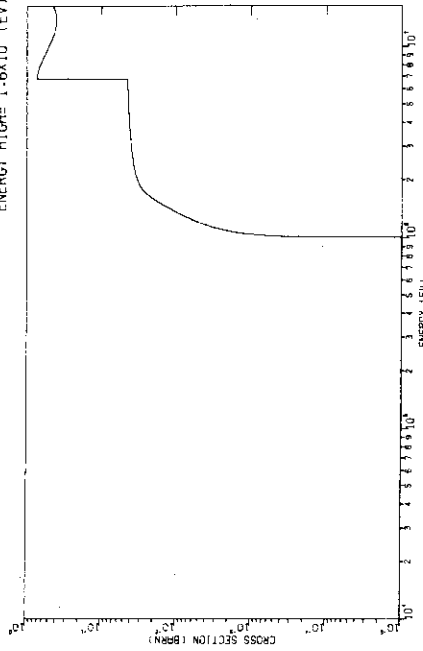
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 91

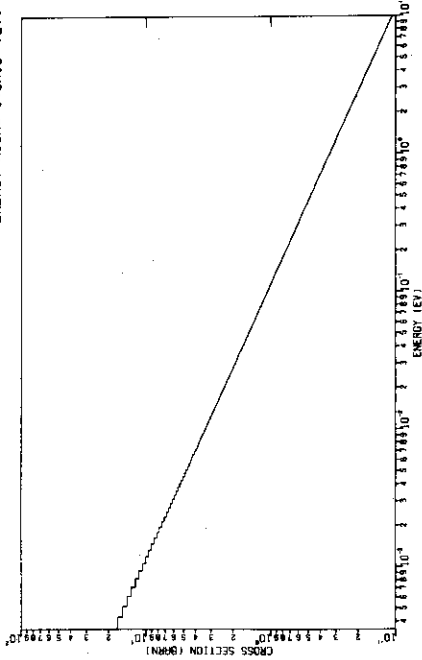
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 102

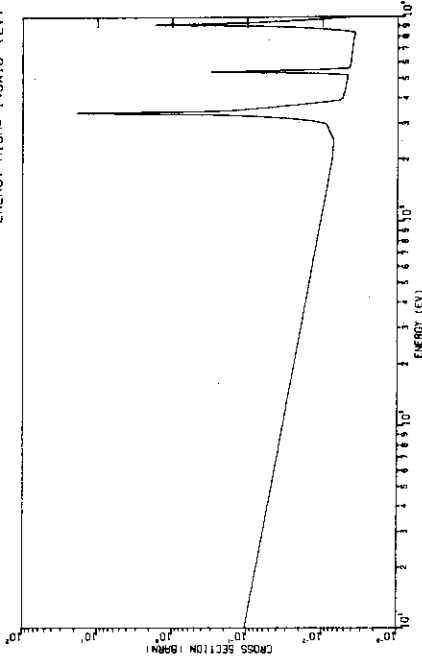
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 102

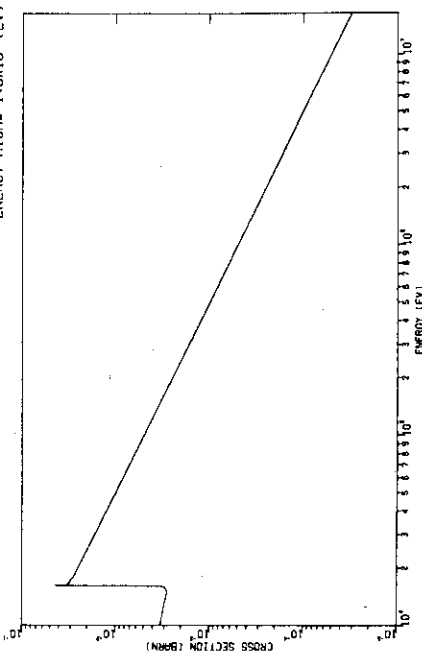
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 102

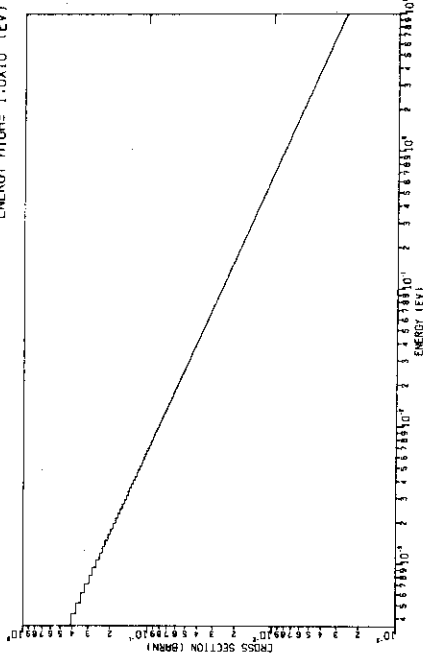
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 103

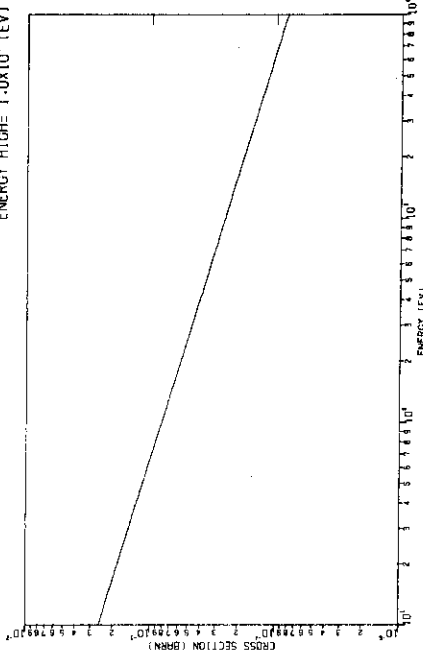
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 103

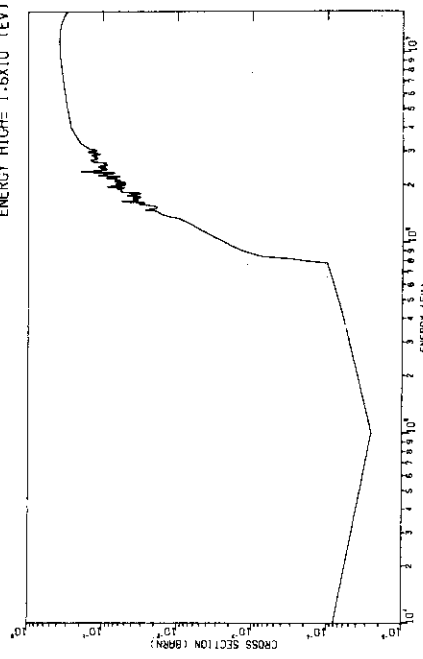
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 103

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

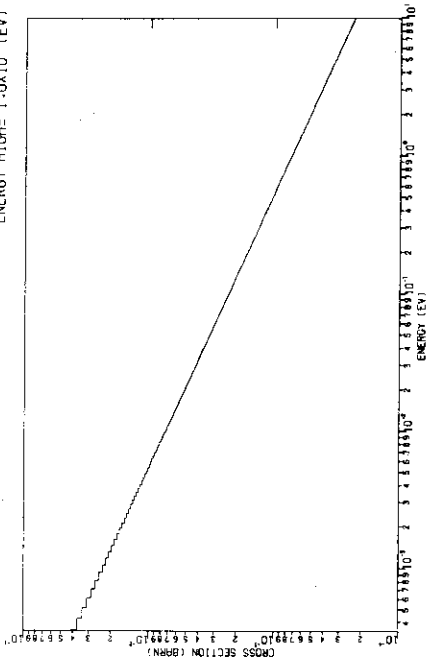




1150 K FROM ENDF/B-IV

REACTION TYPE = 107

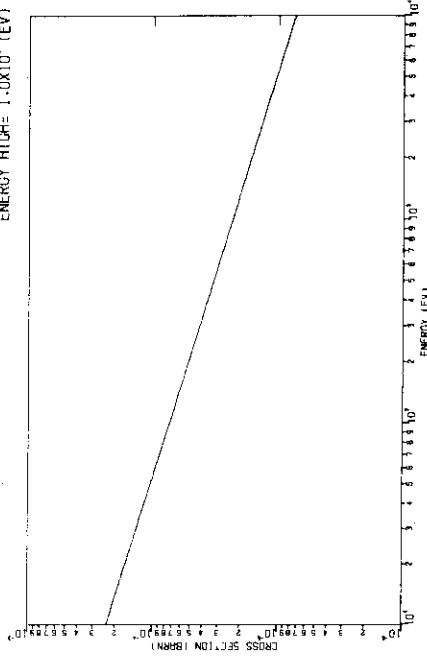
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 107

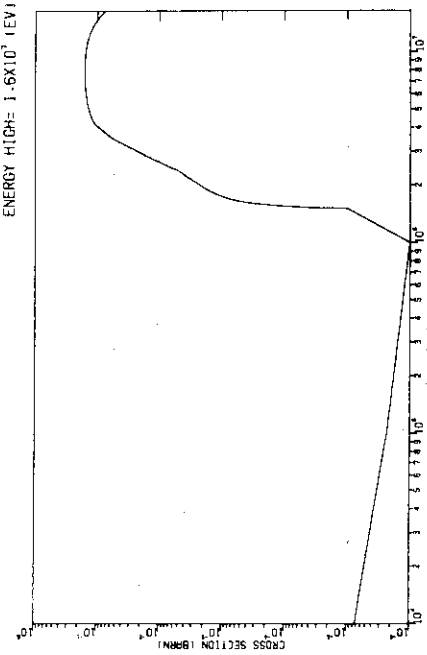
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1150 K FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>4</sup> (EV)



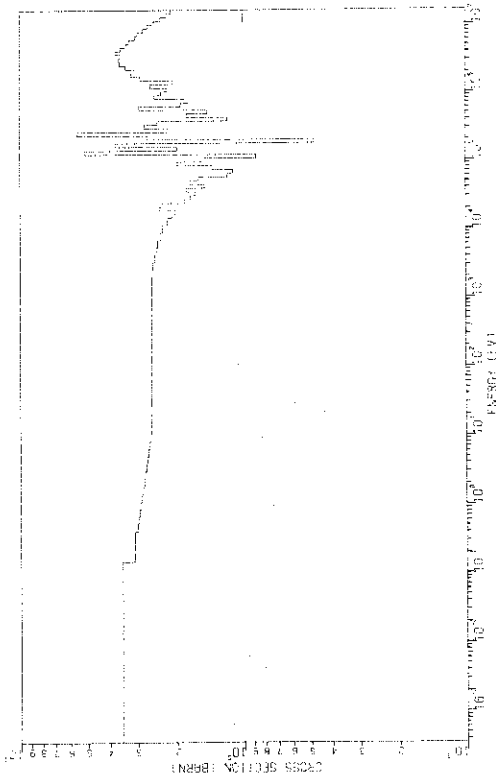
1195 CP FROM ENDF/B-IV (300K)

TOTAL

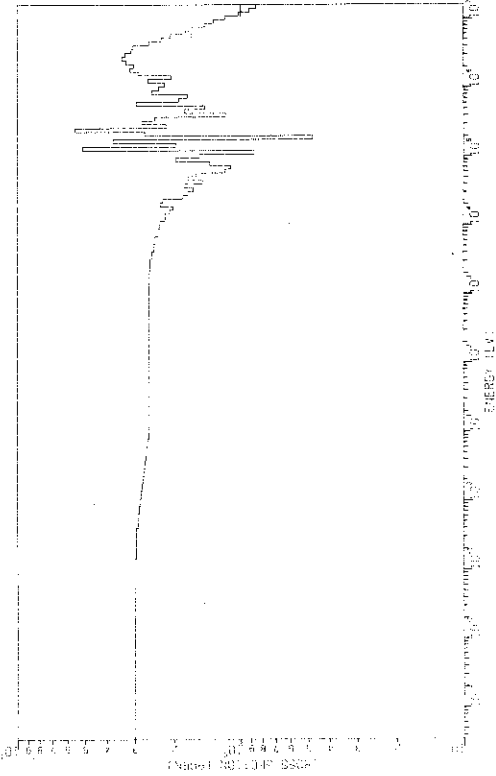
1195 CP FROM ENDF/B-IV (300K)

ELDS

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



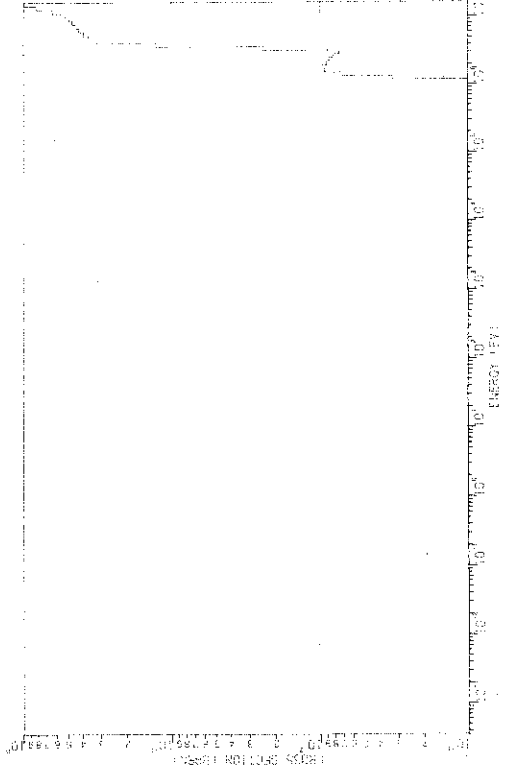
1195 CP FROM ENDF/B-IV (300K)

ELDS

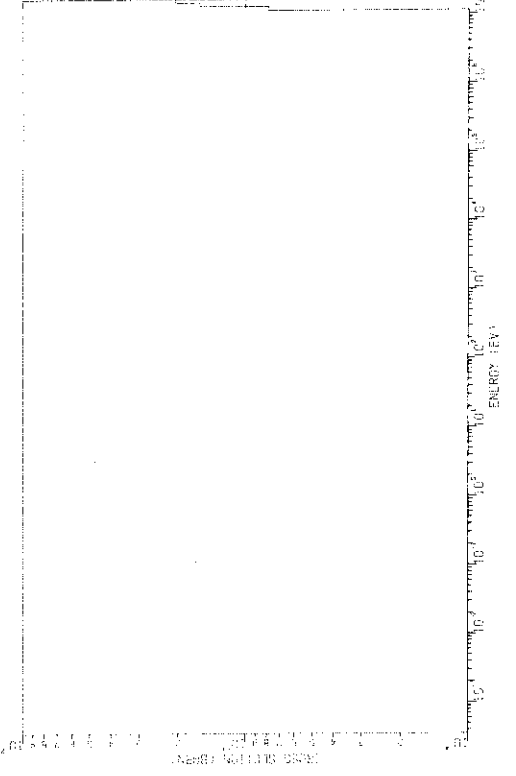
1195 CP FROM ENDF/B-IV (300K)

(N,ZN)

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



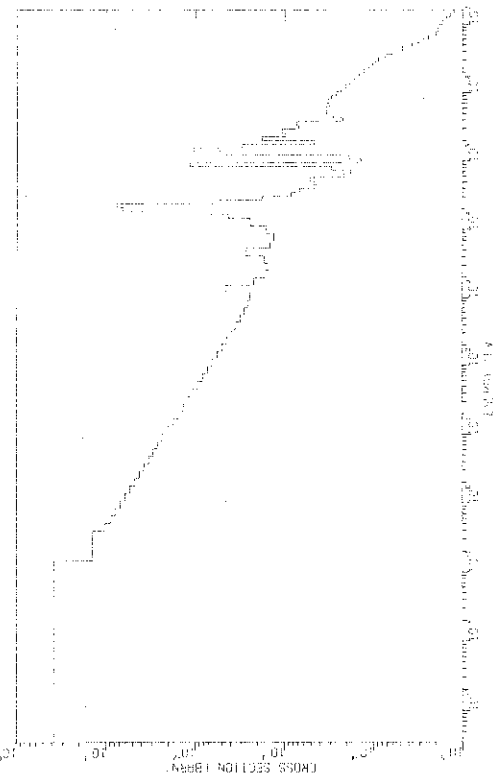
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



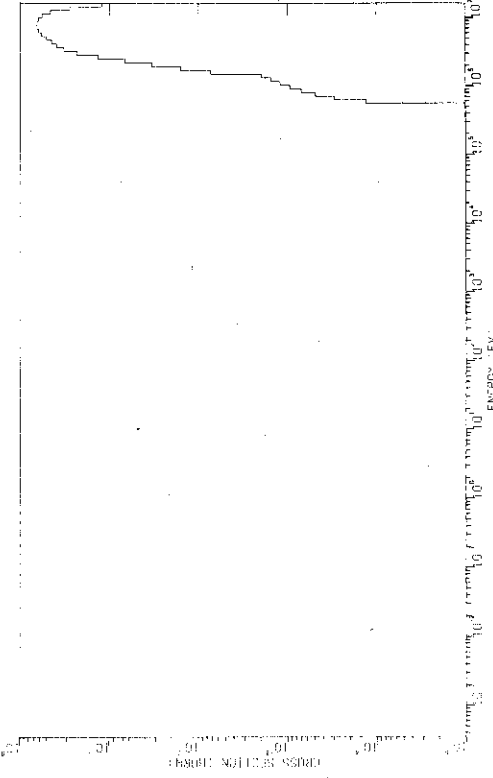
(1195 CP FROM ENDF/B-V (300K))

(N.P.)

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



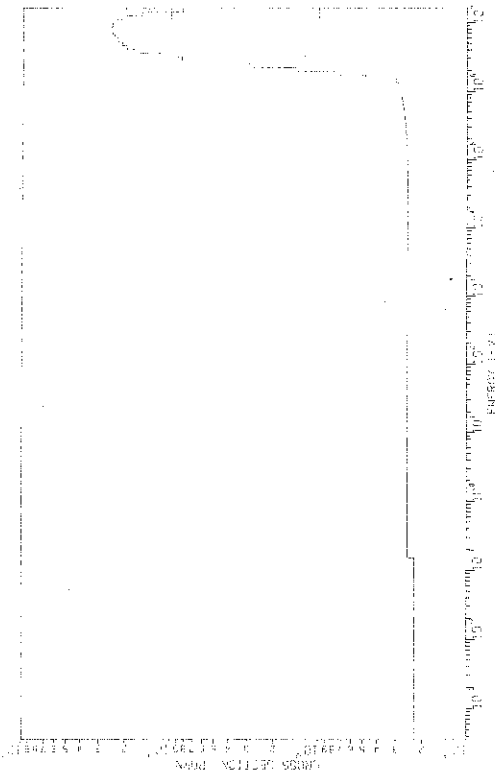
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



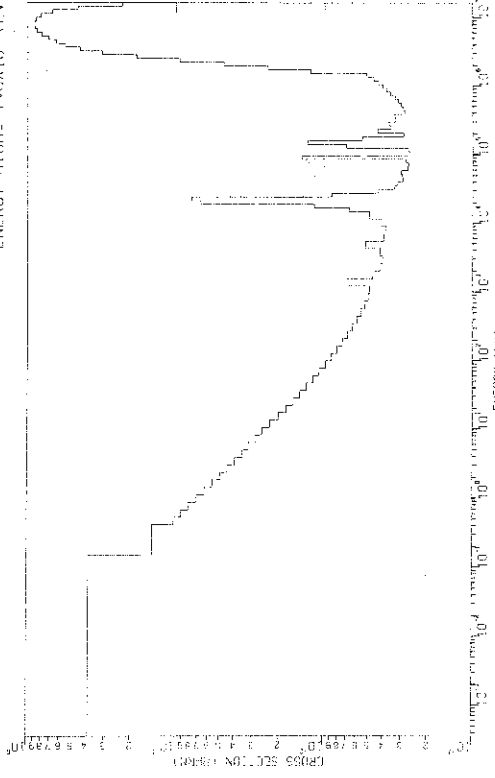
(1195 CP FROM ENDF/B-V (300K))

(N.P.)

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



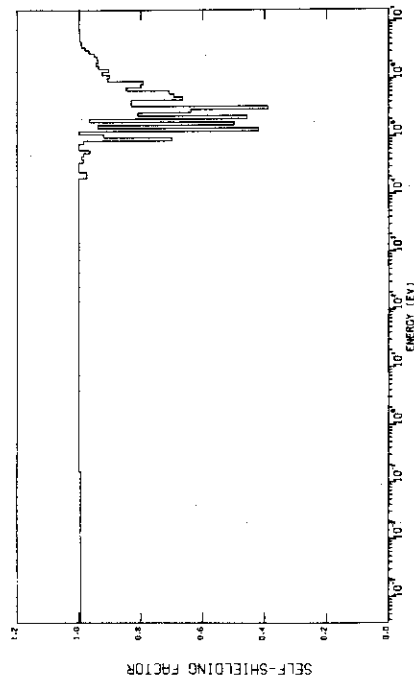
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV ( 300K )

TOTAL

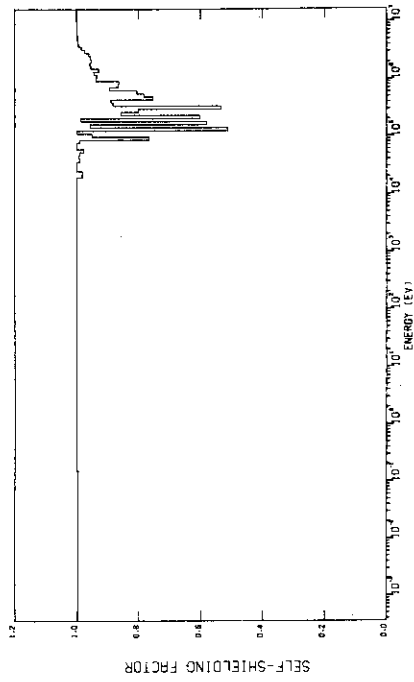
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV ( 300K )

TOTAL

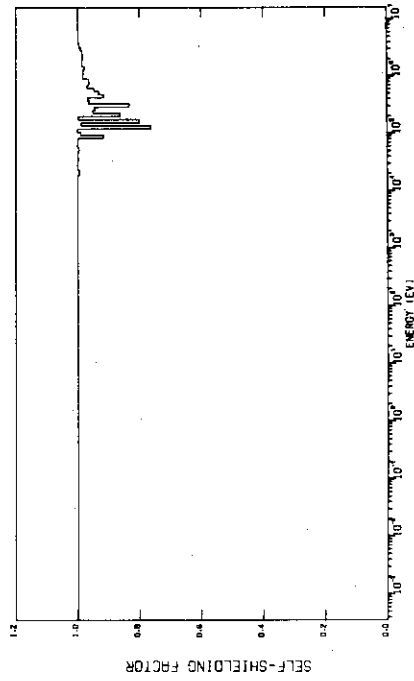
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV ( 300K )

TOTAL

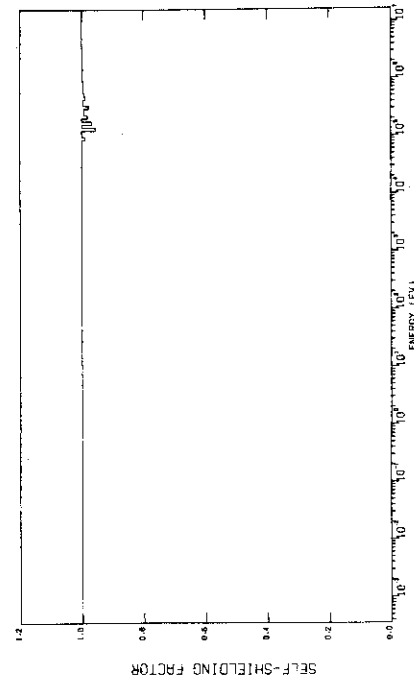
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV ( 300K )

TOTAL

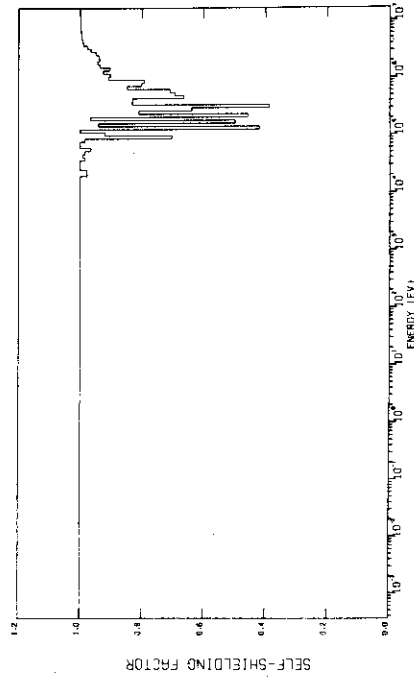
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV ( 300K )

ELAS

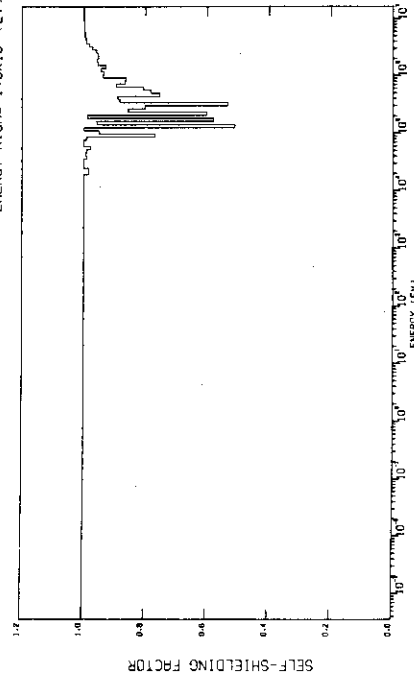
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



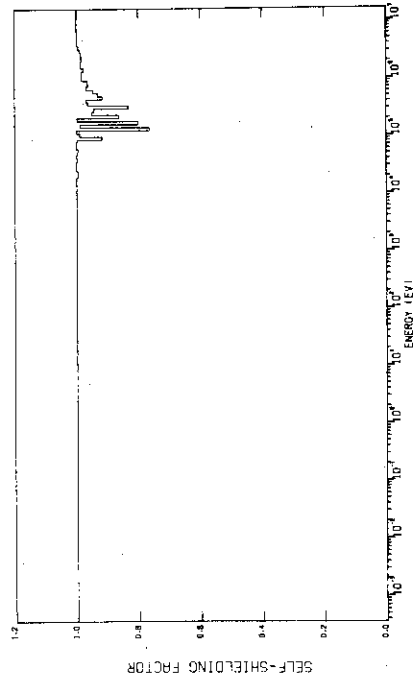
<sup>20</sup>Ca  
1195

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1195 Ca FROM ENDF/B-VI (300K)

ELAS

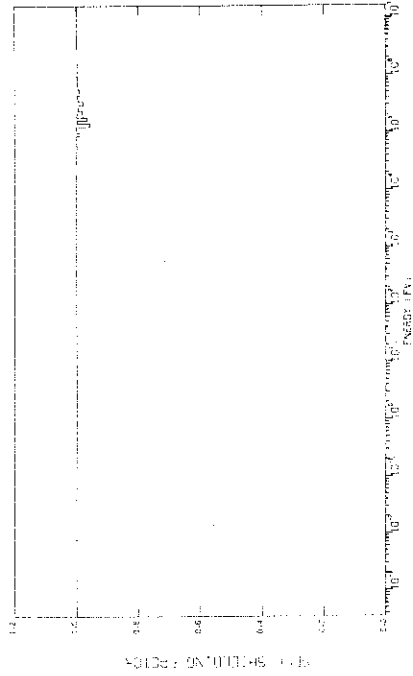
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-VI (300K)

CAPTURE

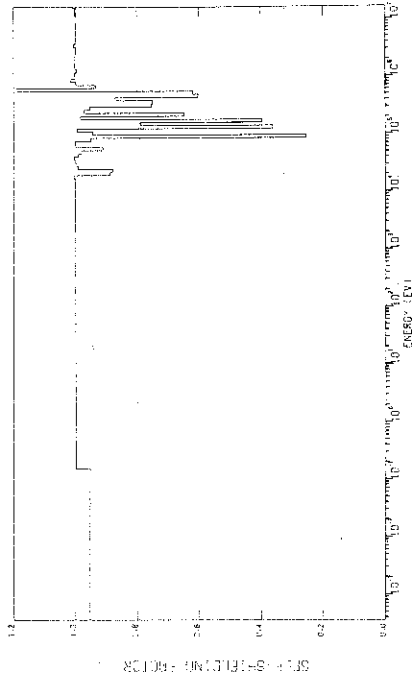
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-VI (300K)

CAPTURE

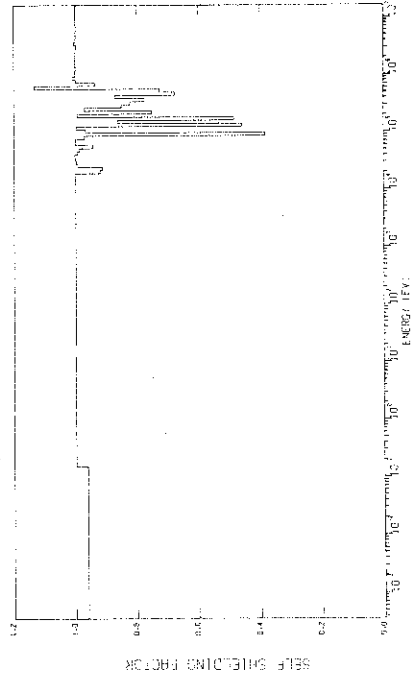
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-VI (300K)

CAPTURE

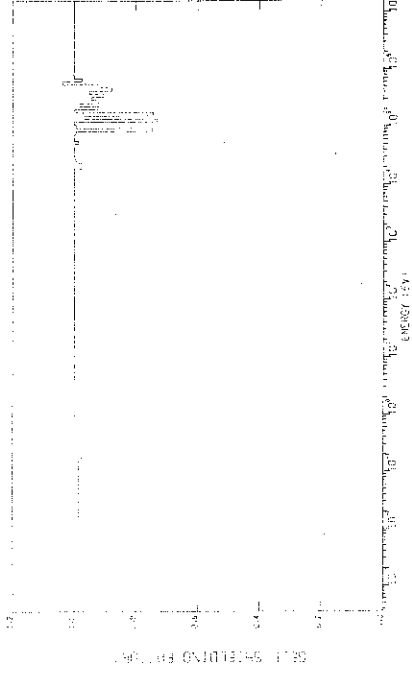
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-VI (300K)

CAPTURE

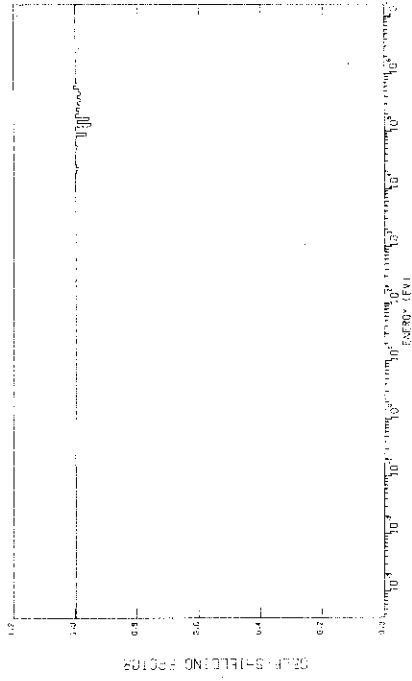
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-VI (300K)

CAPTURE

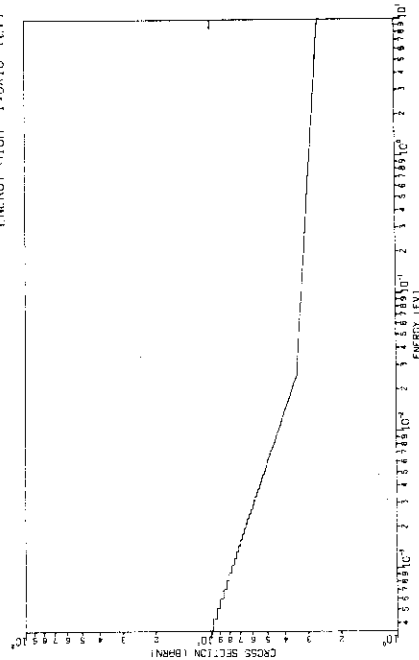
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM END7/B-IV

REACTION TYPE = 1

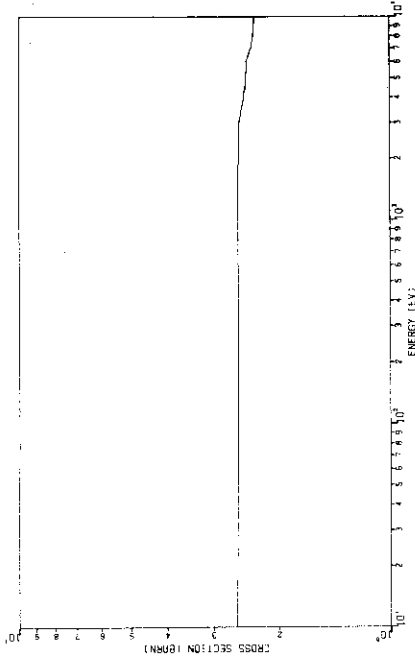
TEMPERATURE = 300 K  
SIGD = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>5</sup> (EV)



1195 Ca FROM END7/B-IV

REACTION TYPE = 1

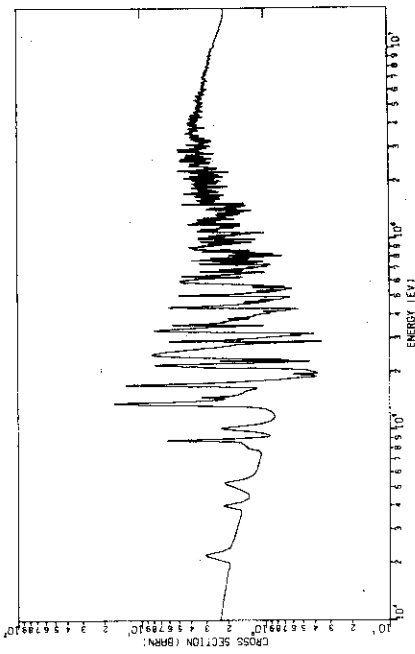
TEMPERATURE = 300 K  
SIGD = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>5</sup> (EV)



1195 Ca FROM END7/B-IV

REACTION TYPE = 1

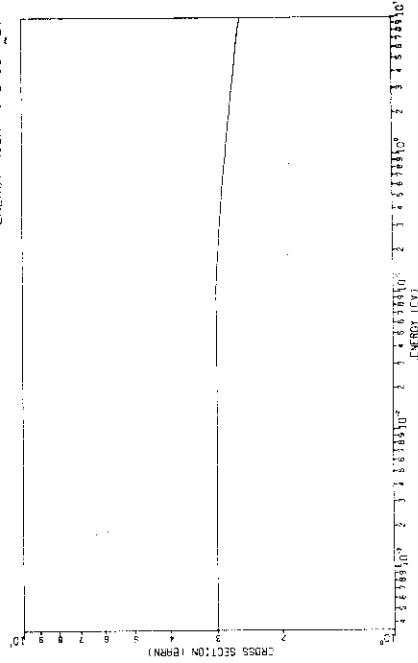
TEMPERATURE = 300 K  
SIGD = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>5</sup> (EV)



1195 Ca FROM END7/B-IV

REACTION TYPE = 2

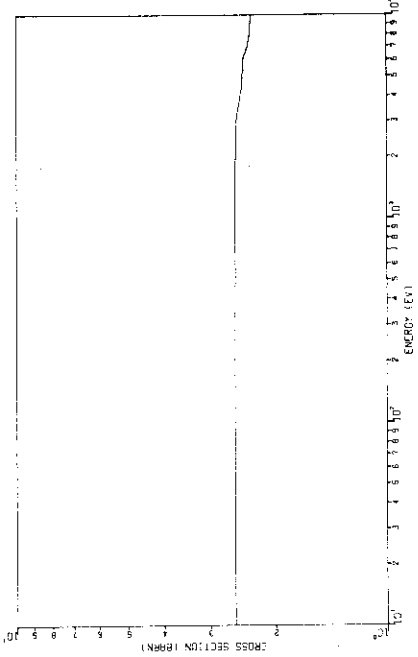
TEMPERATURE = 300 K  
SIGD = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>5</sup> (EV)



1195 Ca FROM END7/B-IV

REACTION TYPE = 2

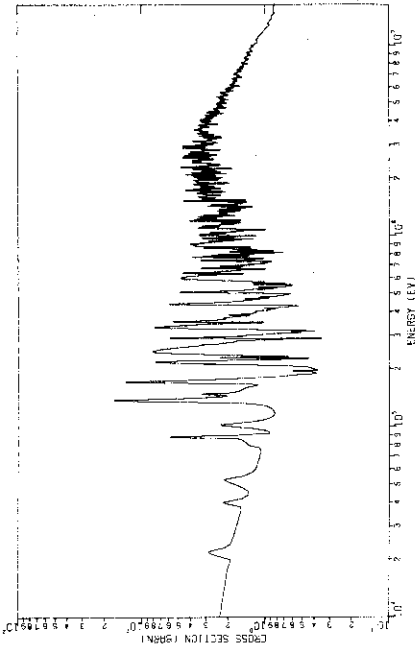
TEMPERATURE = 300 K  
SIGD = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>5</sup> (EV)



1195 Ca FROM END7/B-IV

REACTION TYPE = 2

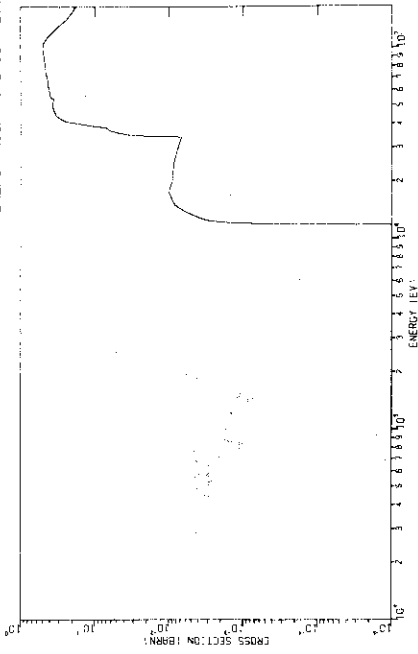
TEMPERATURE = 300 K  
SIGD = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>5</sup> (EV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 4

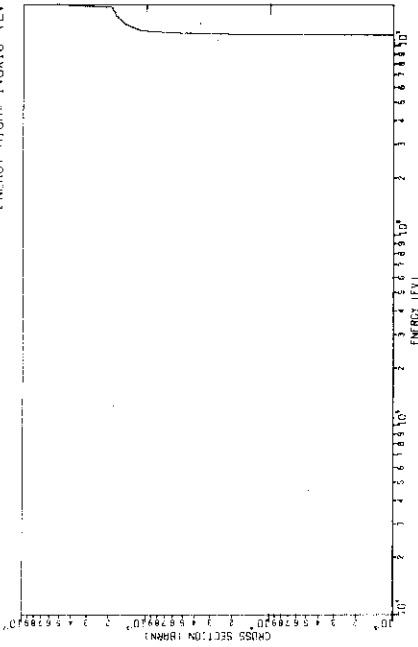
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 16

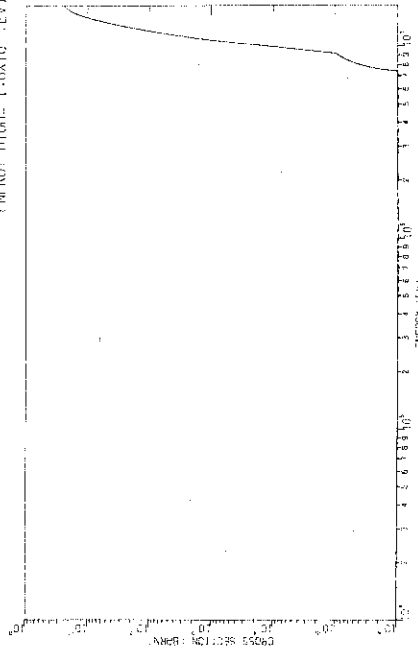
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 22

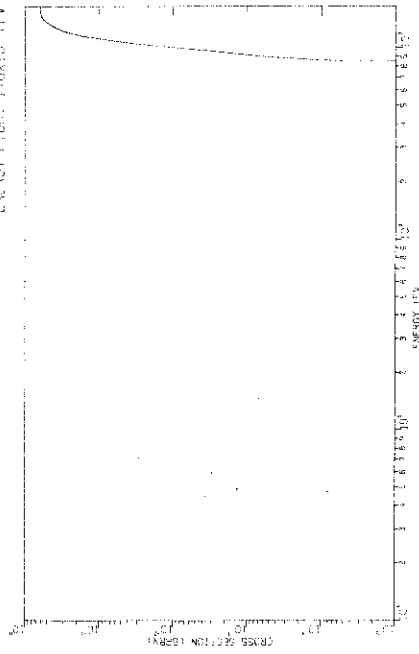
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 25

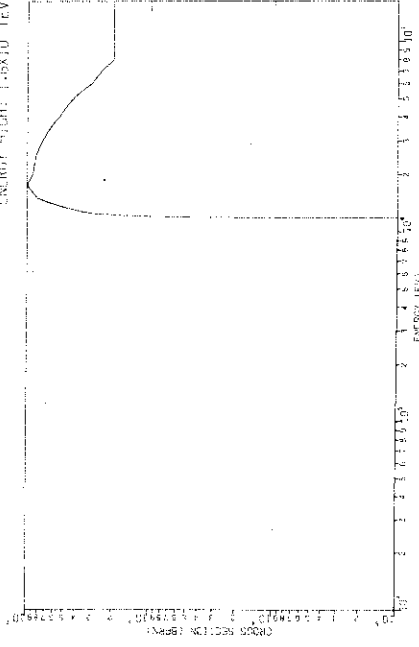
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 33

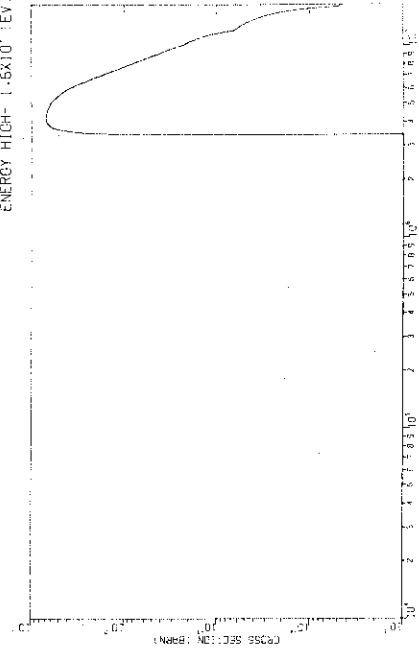
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 52

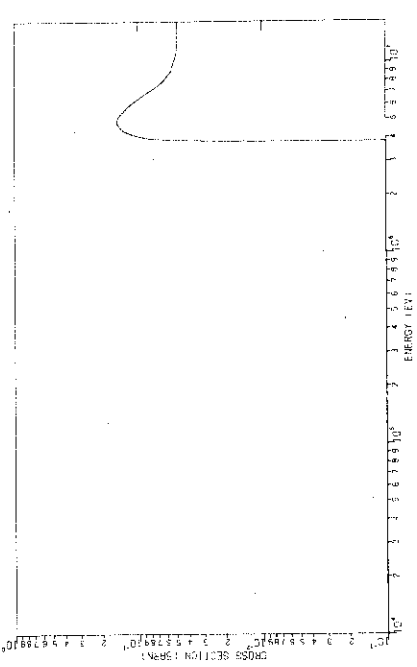
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 53

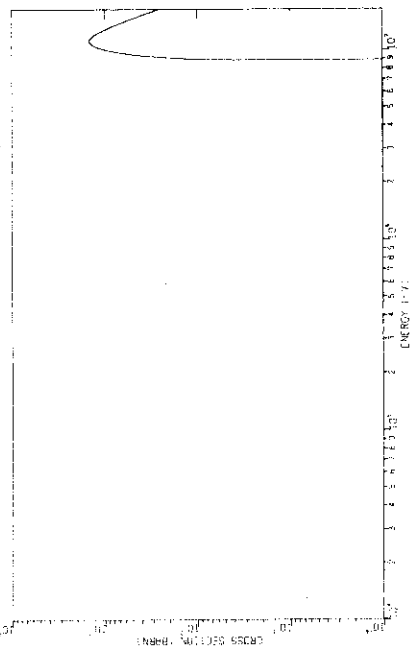
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 51

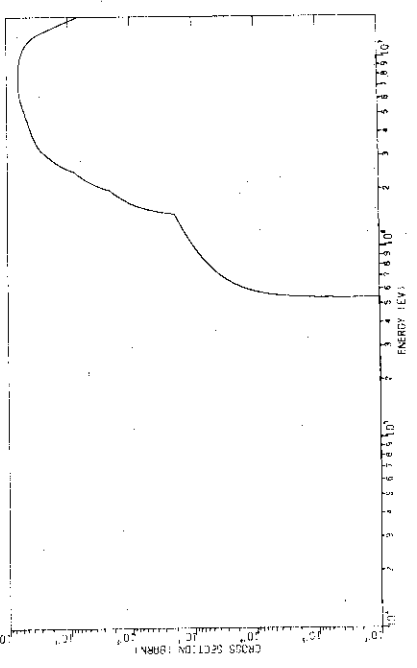
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 103

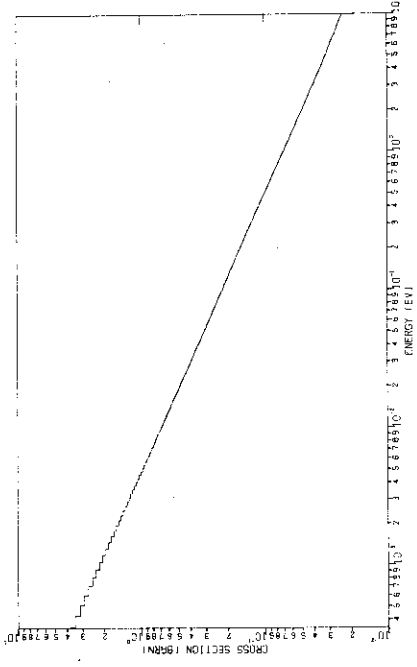
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 102

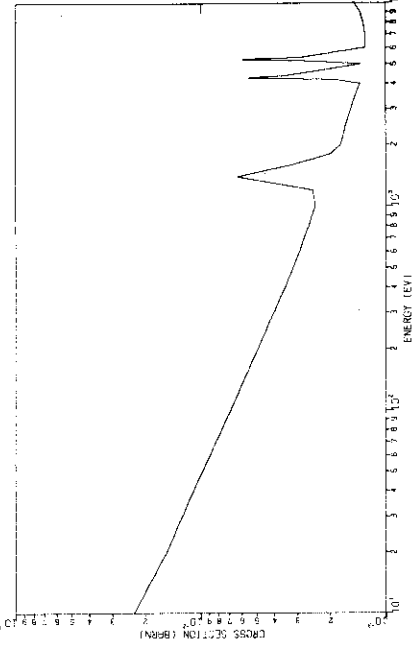
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 102

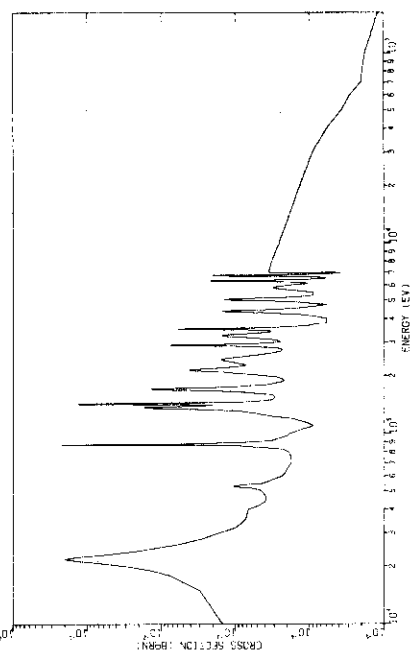
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

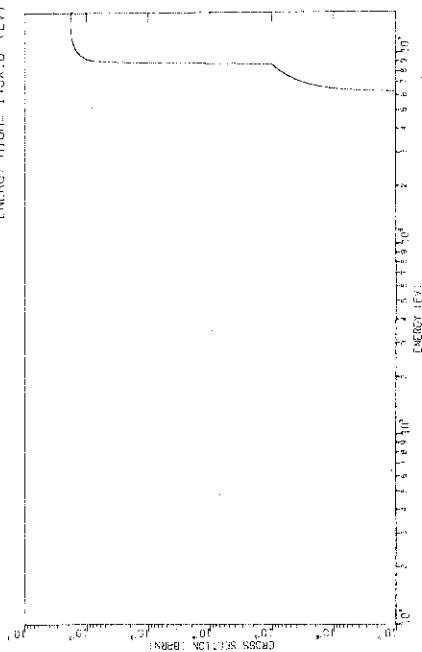




1195 Ca FROM ENDF/B-IV

REACTION TYPE = 104

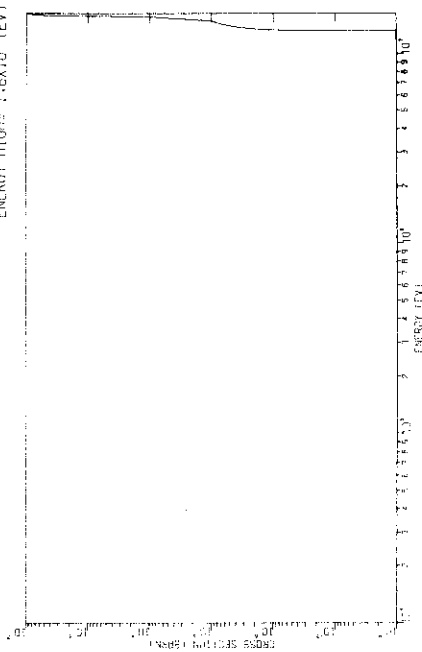
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 105

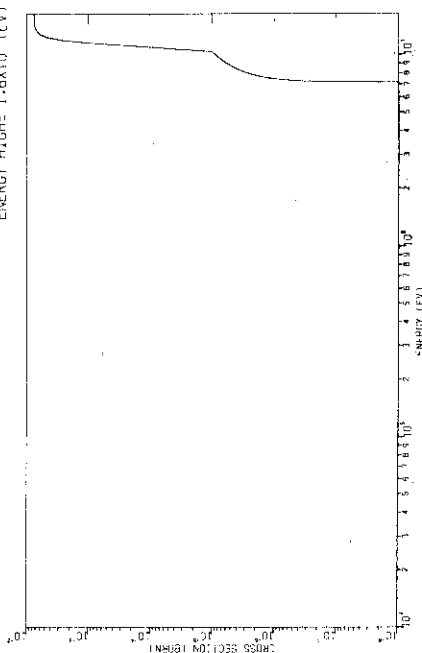
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 106

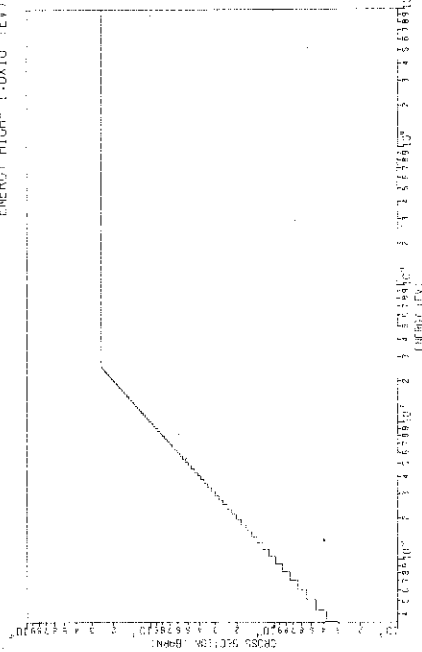
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 107

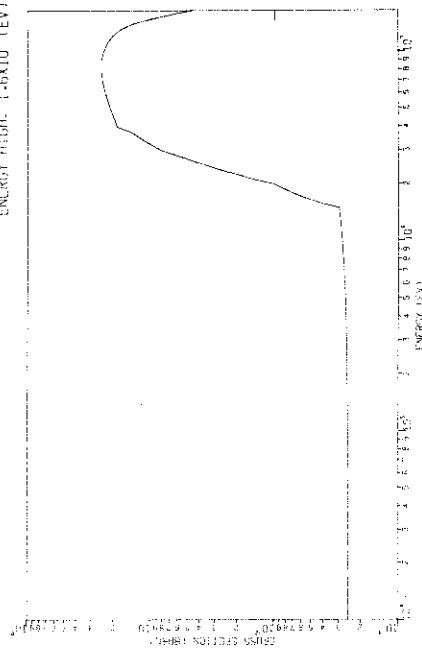
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 107

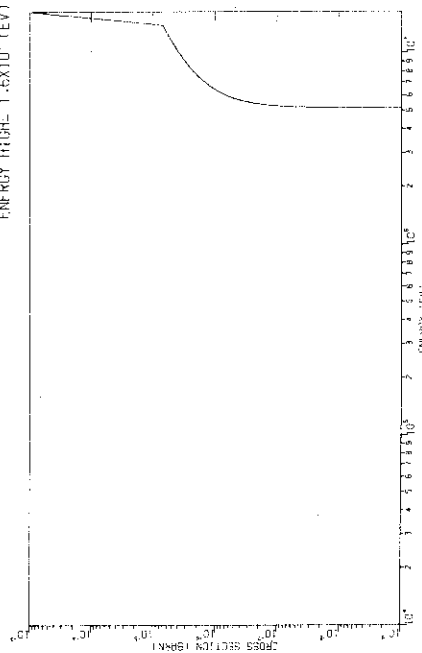
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



1195 Ca FROM ENDF/B-IV

REACTION TYPE = 108

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (eV)



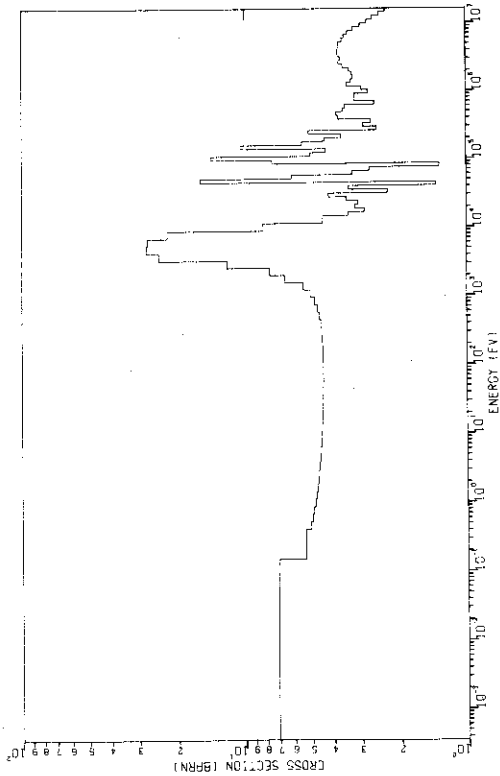
1191 CR FROM ENDF/B-IV ( 300K )

TOTAL

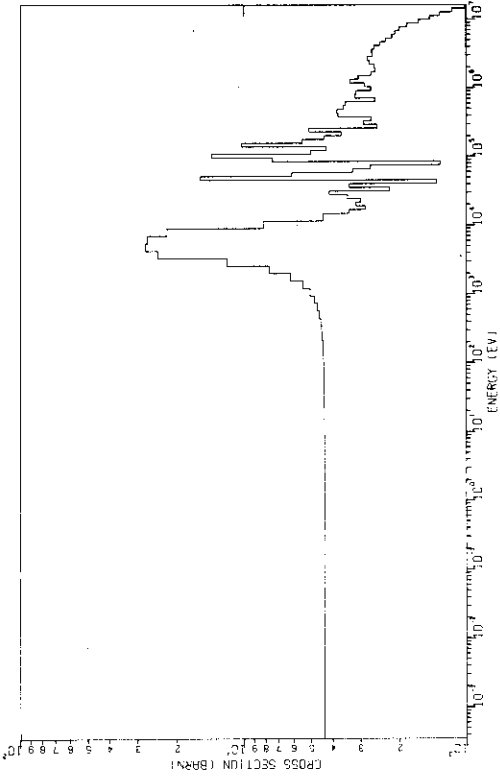
1191 CR FROM ENDF/B-IV ( 300K )

ELRS

TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



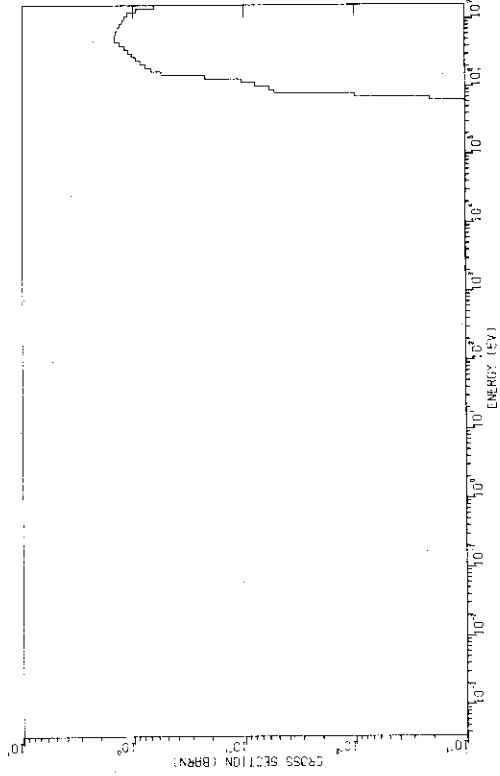
1191 CR FROM ENDF/B-IV ( 300K )

INELRS

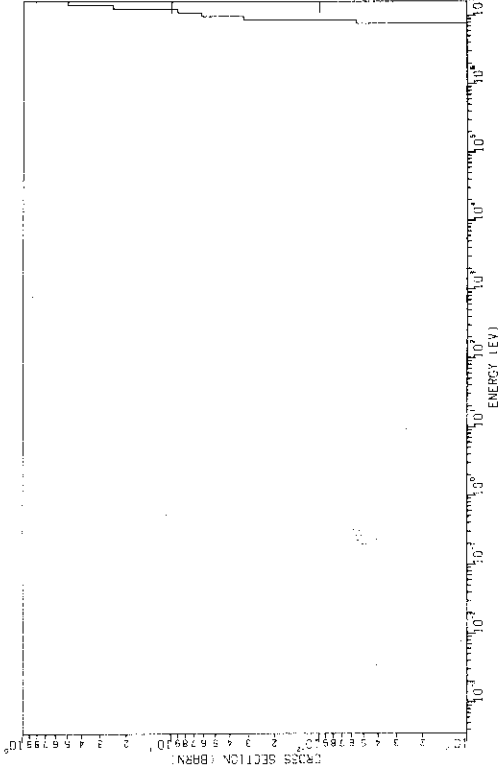
1191 CR FROM ENDF/B-IV ( 300K )

(N.2N)

TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

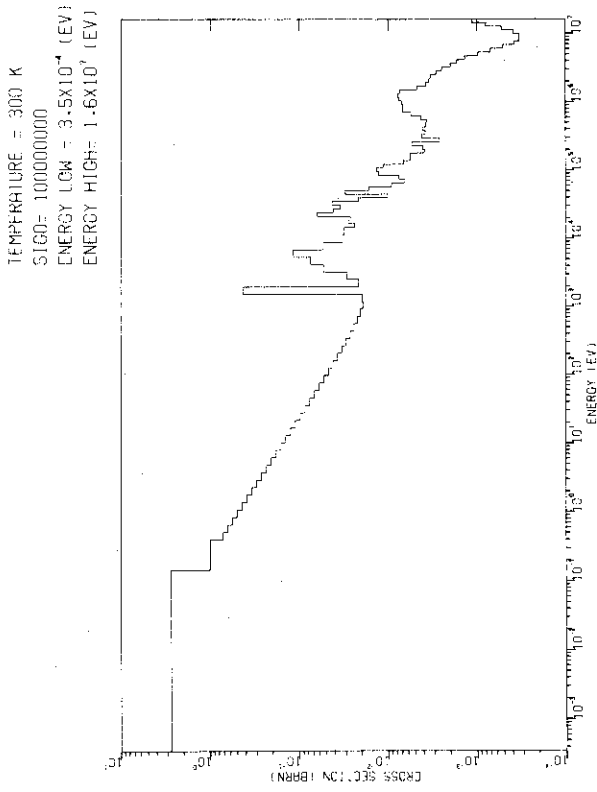


TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



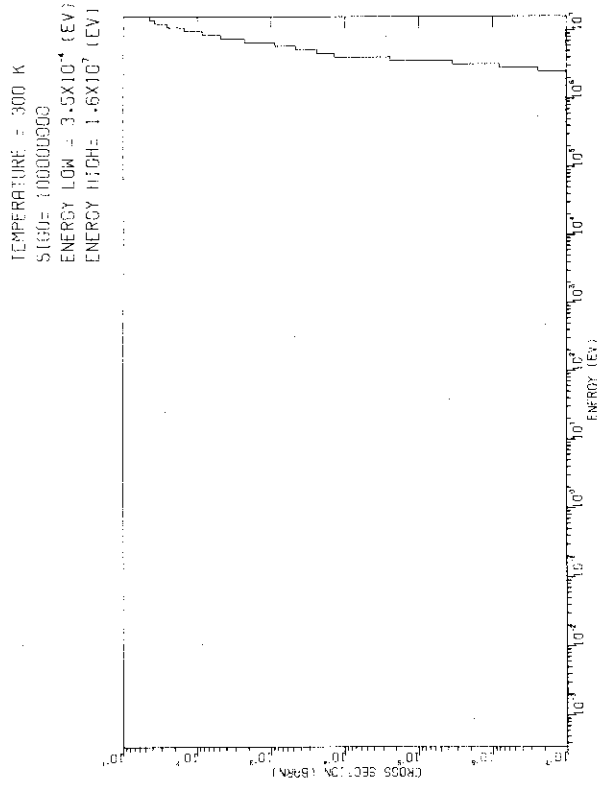
1191 CR FROM ENDF/B-IV ( 300K )

( N.G )



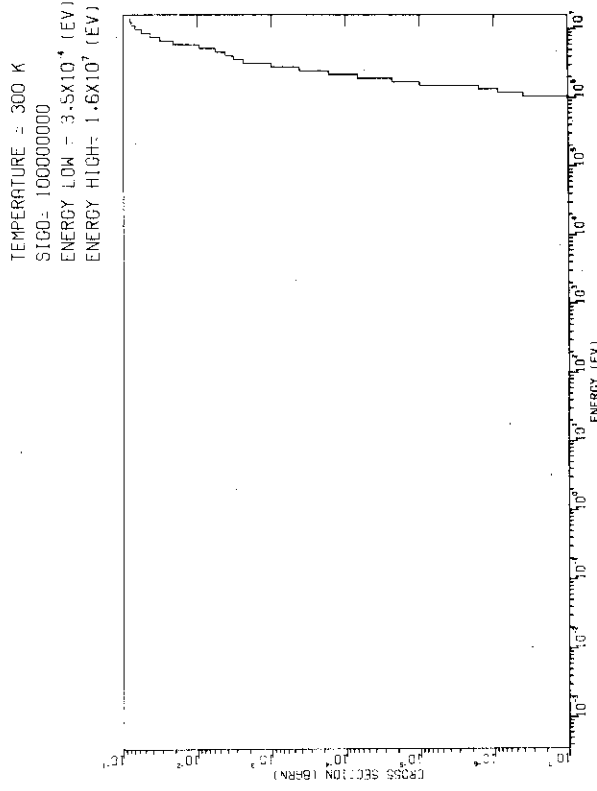
1191 CR FROM ENDF/B-IV ( 300K )

( N.R )



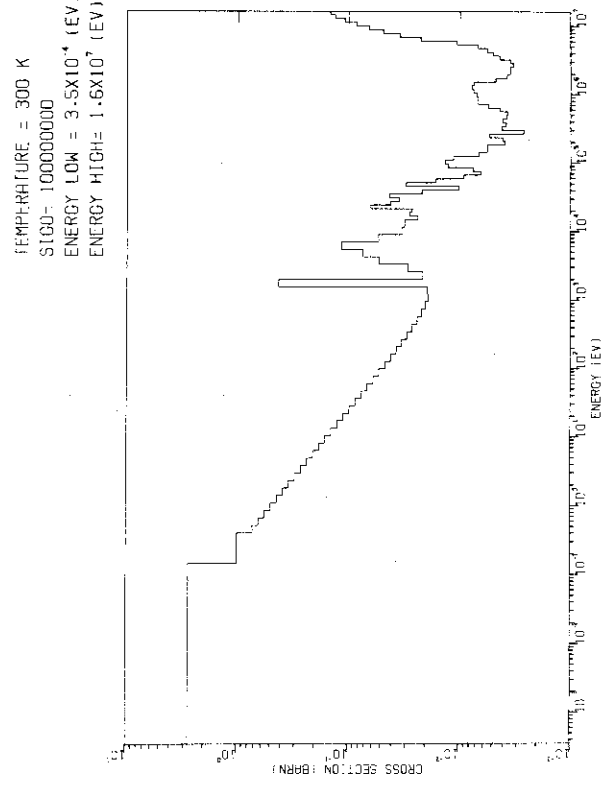
1191 CR FROM ENDF/B-IV ( 300K )

( N.P )



1191 CR FROM ENDF/B-IV ( 300K )

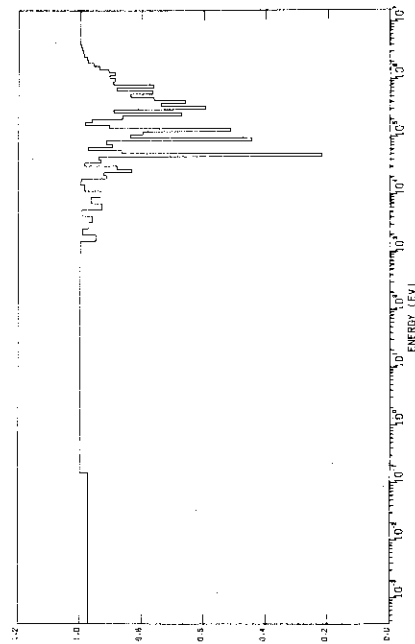
CAPTURE



1191 CR FROM ENDF/B-IV ( 300K )

TOTAL

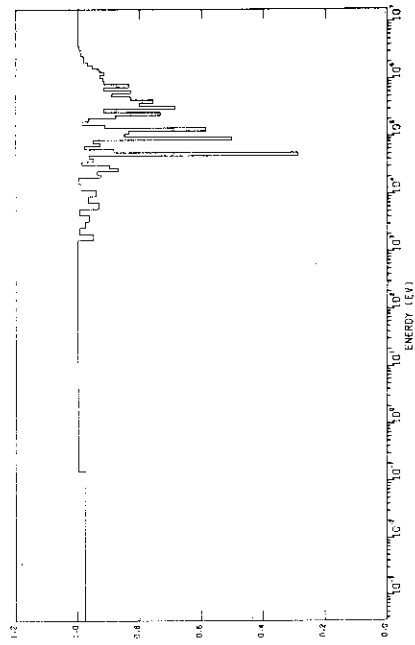
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV ( 300K )

TOTAL

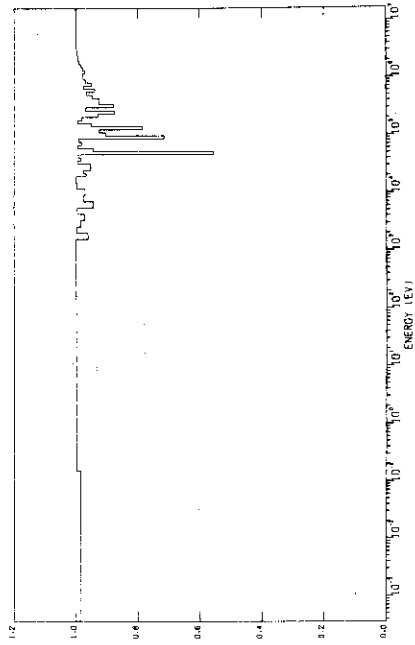
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV ( 300K )

TOTAL

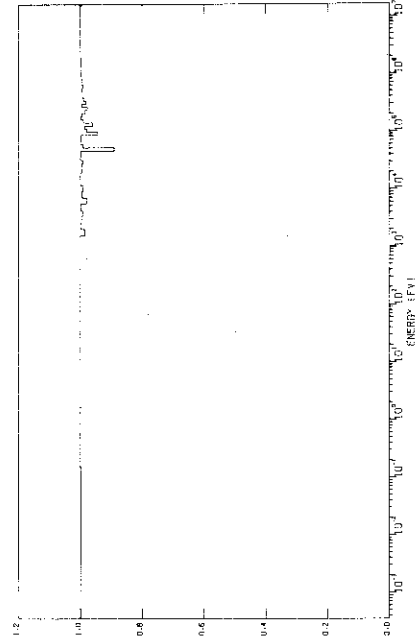
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV ( 300K )

TOTAL

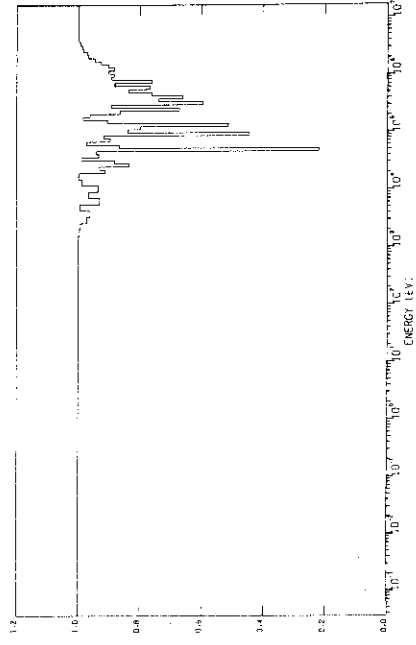
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV ( 300K )

ELAS

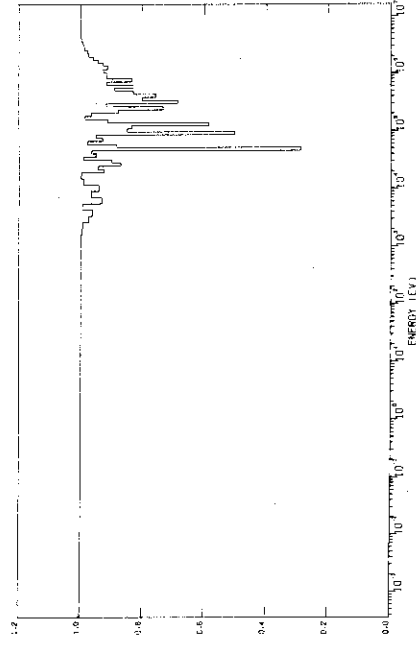
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV ( 300K )

CLASS

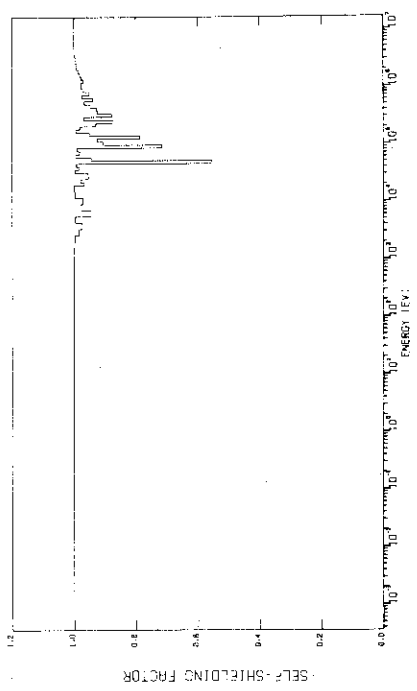
1191 CR FROM ENDF/B-IV ( 300K )

CLASS

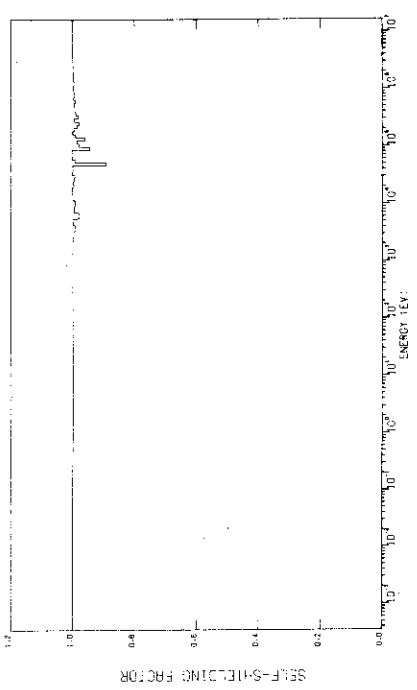
1191 CR FROM ENDF/B-IV ( 300K )

CAPTURE

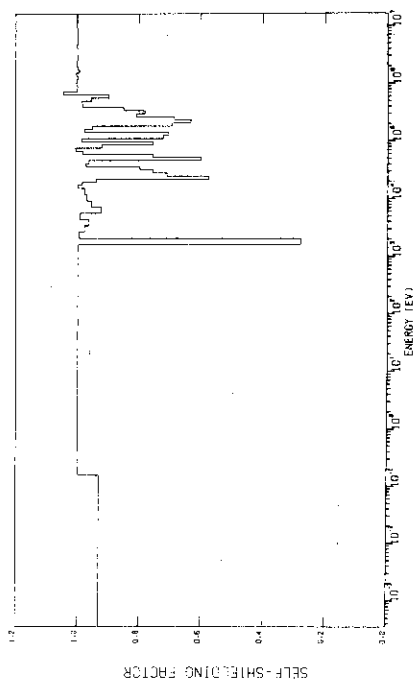
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



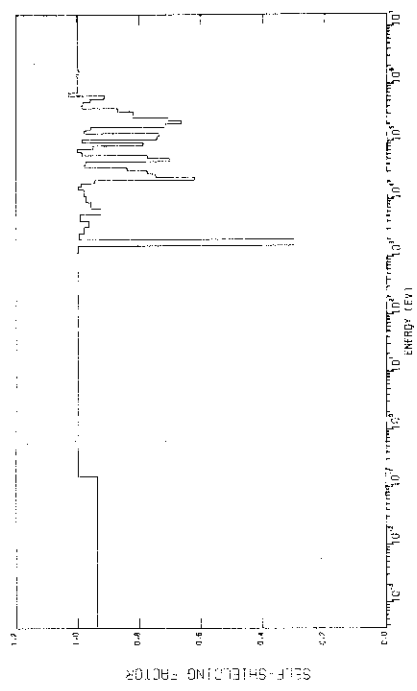
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV ( 300K )

CAPTURE

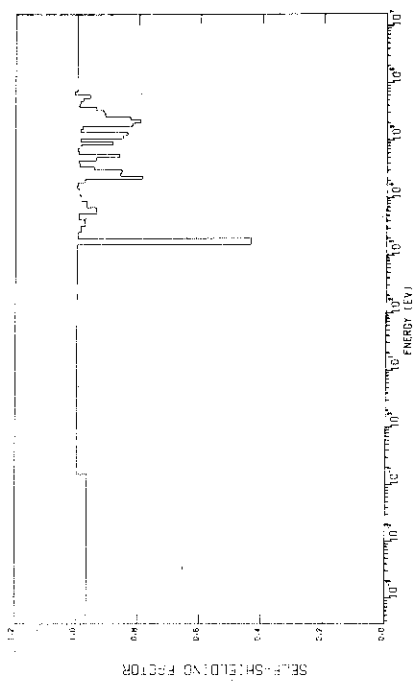
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV ( 300K )

CAPTURE

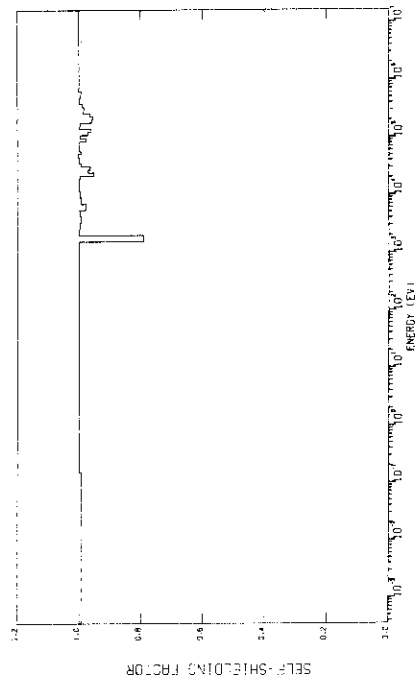
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV ( 300K )

CAPTURE

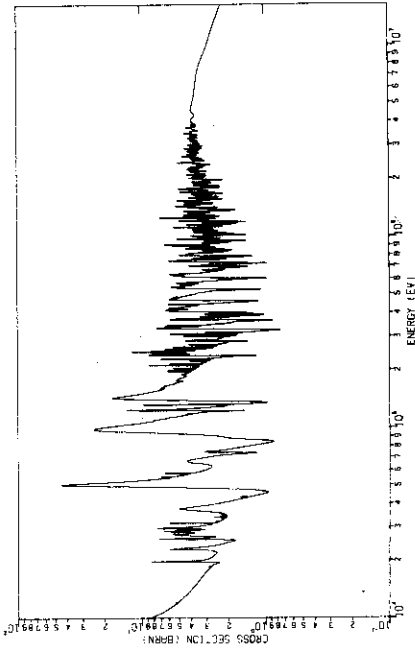
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



REACTION TYPE = 1

1191 CR FROM ENDF/B-IV

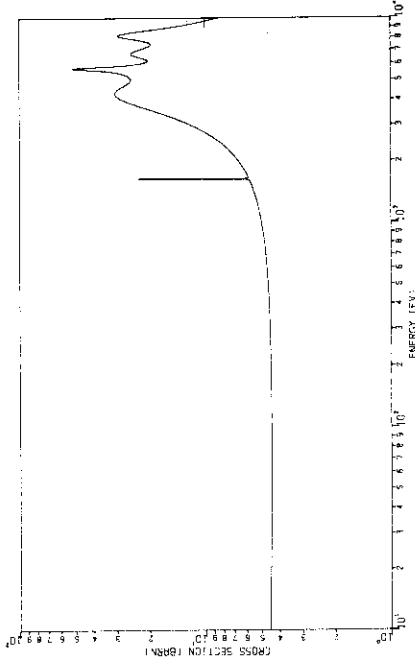
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



REACTION TYPE = 1

1191 CR FROM ENDF/B-IV

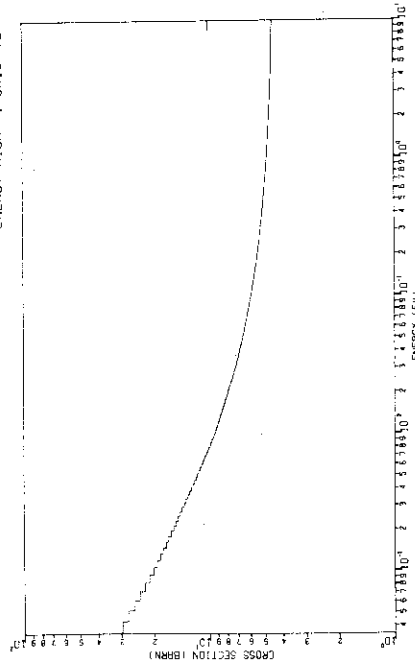
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



REACTION TYPE = 1

1191 CR FROM ENDF/B-IV

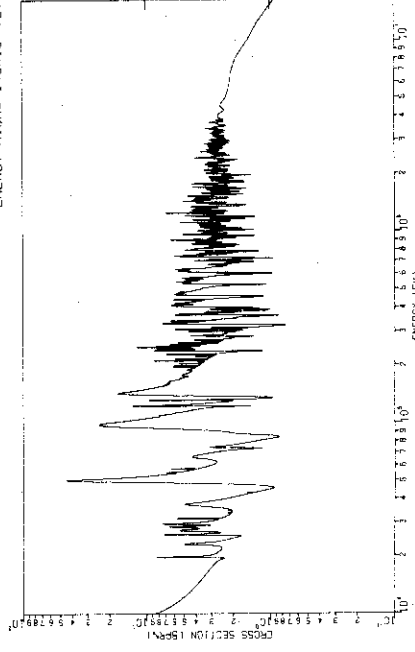
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



REACTION TYPE = 2

1191 CR FROM ENDF/B-IV

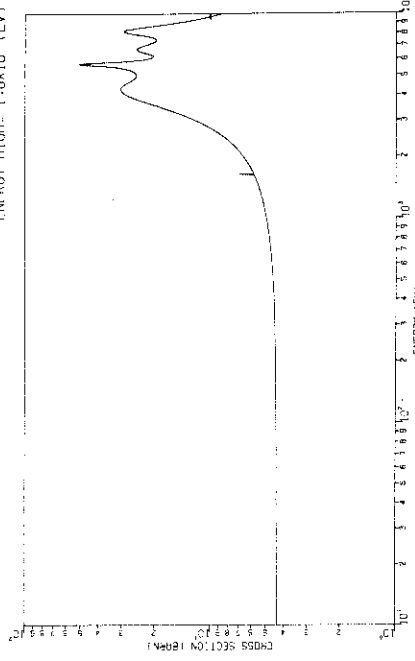
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



REACTION TYPE = 2

1191 CR FROM ENDF/B-IV

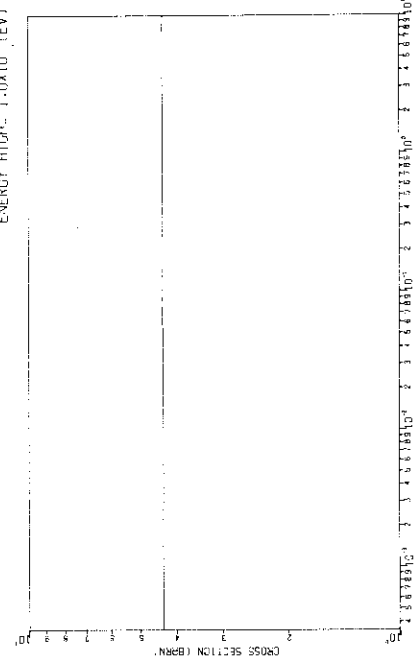
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



REACTION TYPE = 2

1191 CR FROM ENDF/B-IV

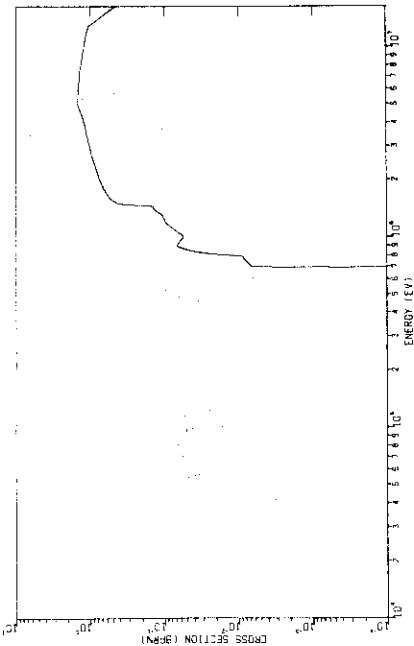
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 4

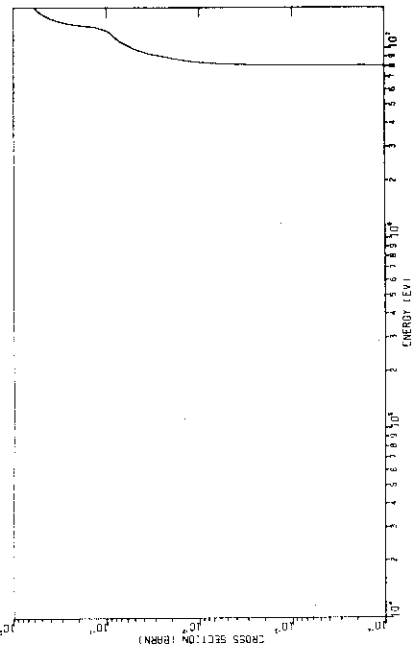
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 16

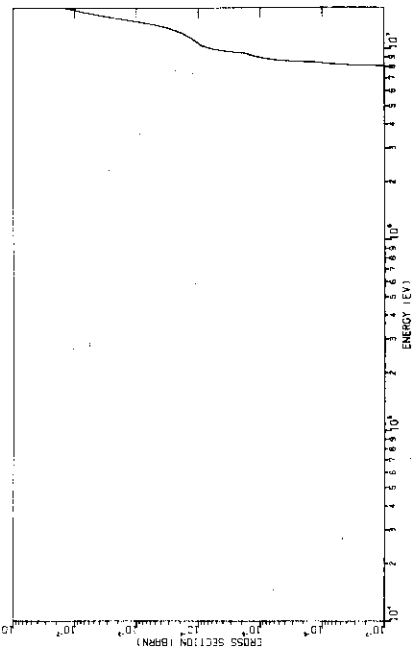
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 22

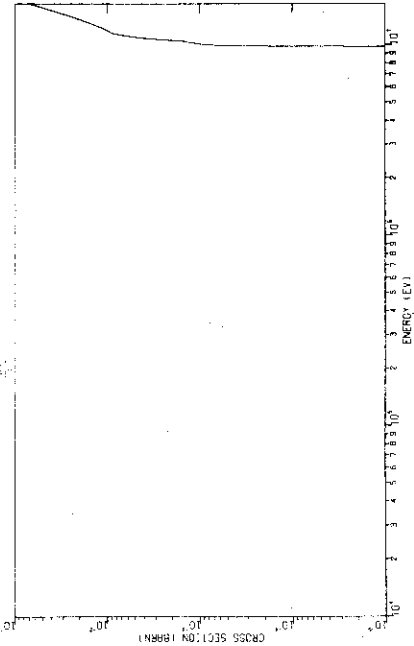
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 28

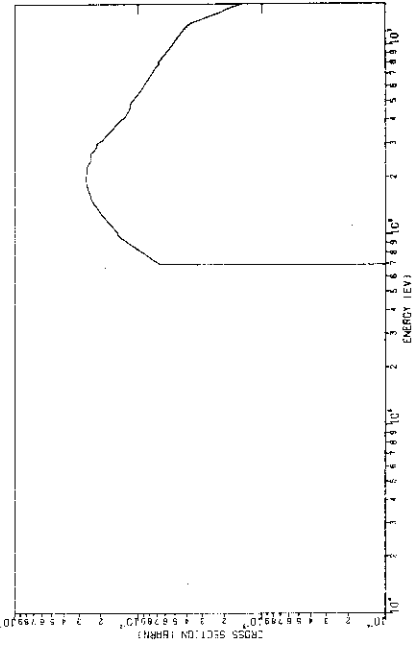
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 51

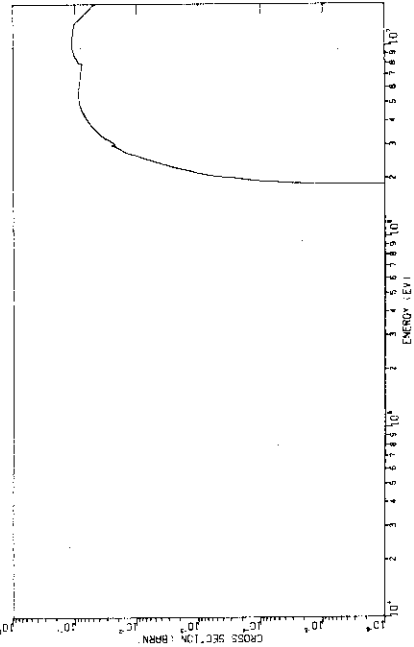
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 91

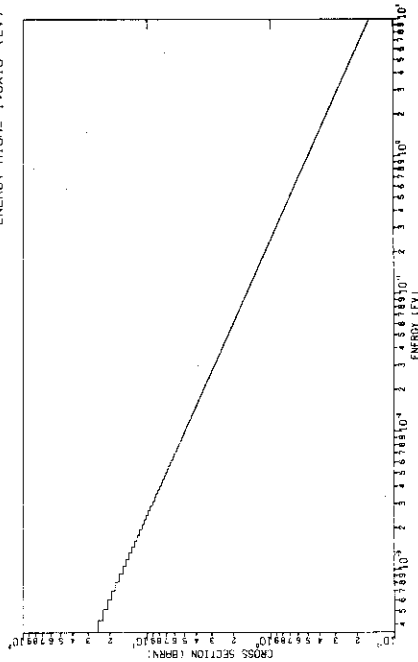
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 102

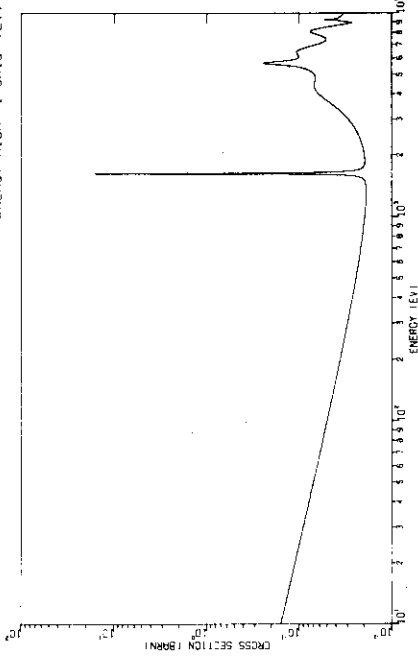
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 102

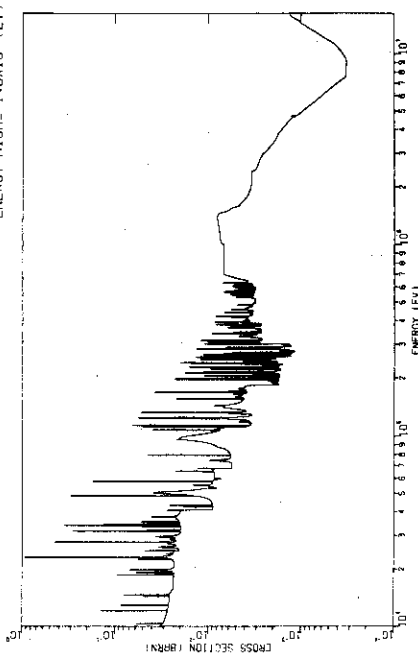
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 102

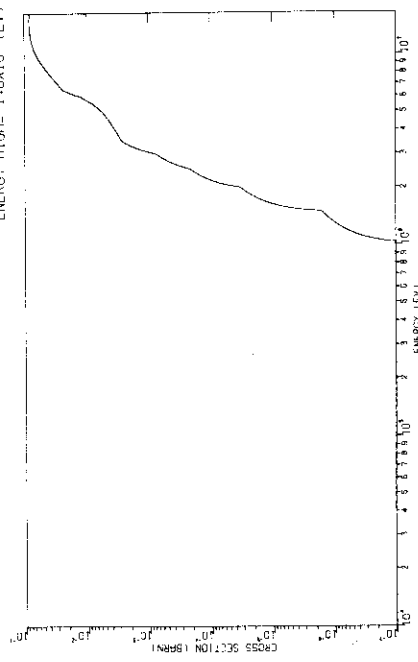
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 103

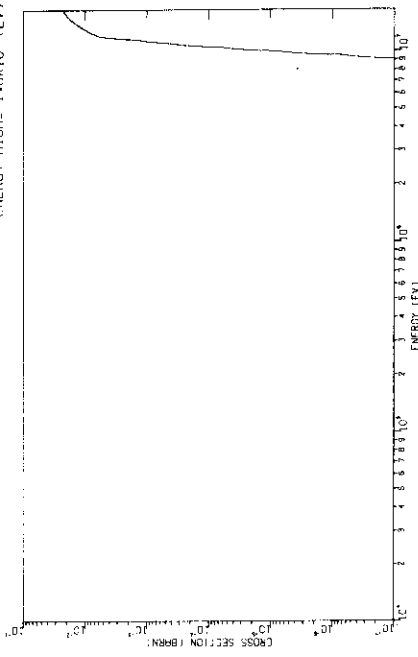
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 104

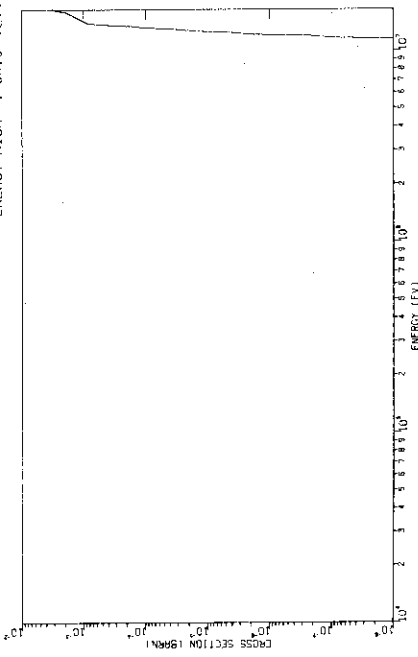
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 105

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



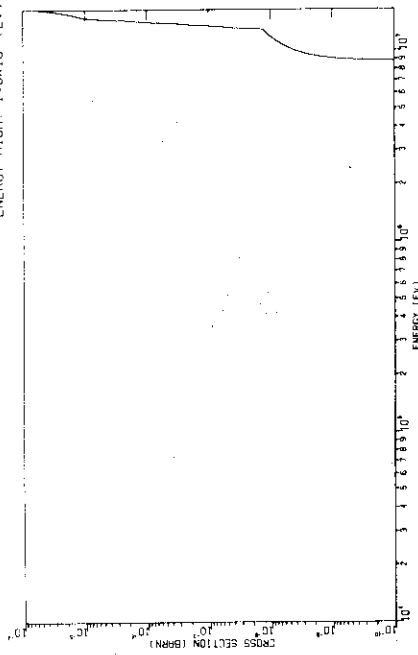


**24 Cr**  
**1191**

1191 CR FROM ENDF/B-IV

REACTION TYPE = 106

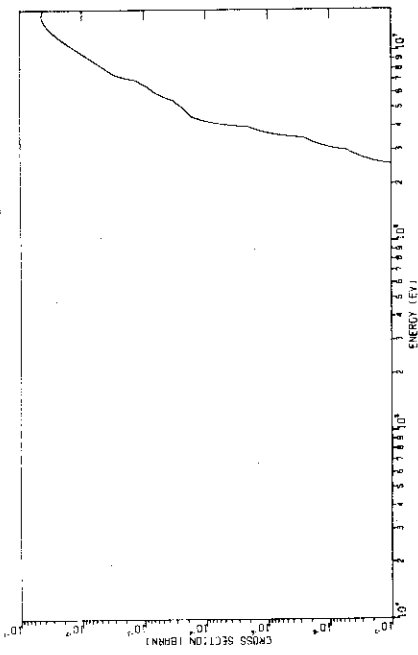
TEMPERATURE = 300 K  
SI00= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1191 CR FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SI00= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



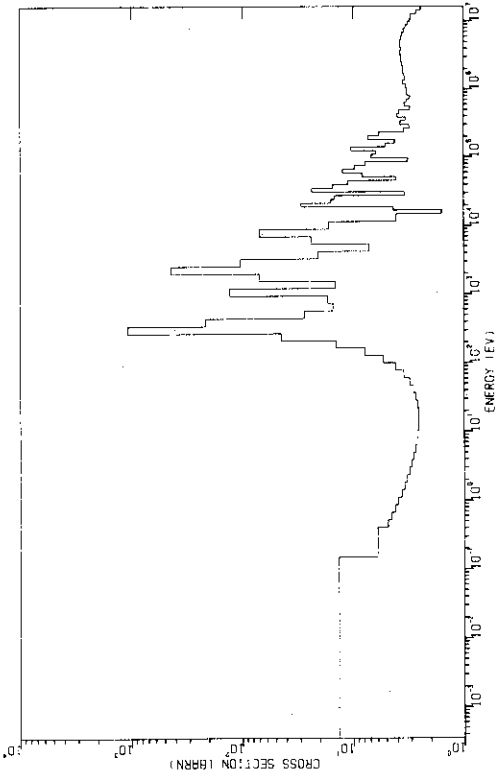
1197 MN-55 FROM ENDF/B-IV ( 300K )

TOTAL

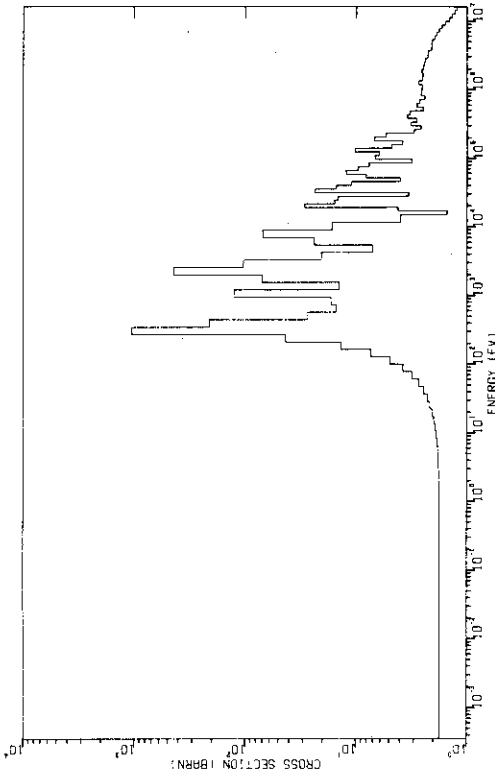
1197 MN-55 FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



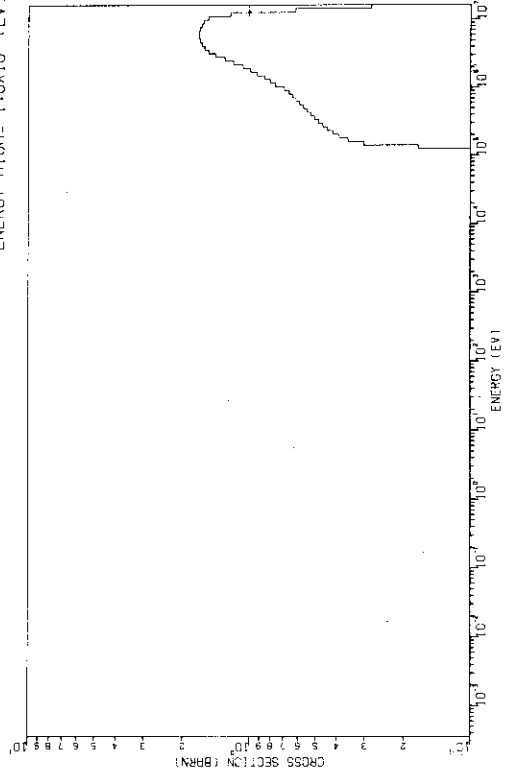
1197 MN-55 FROM ENDF/B-IV ( 300K )

INELAS

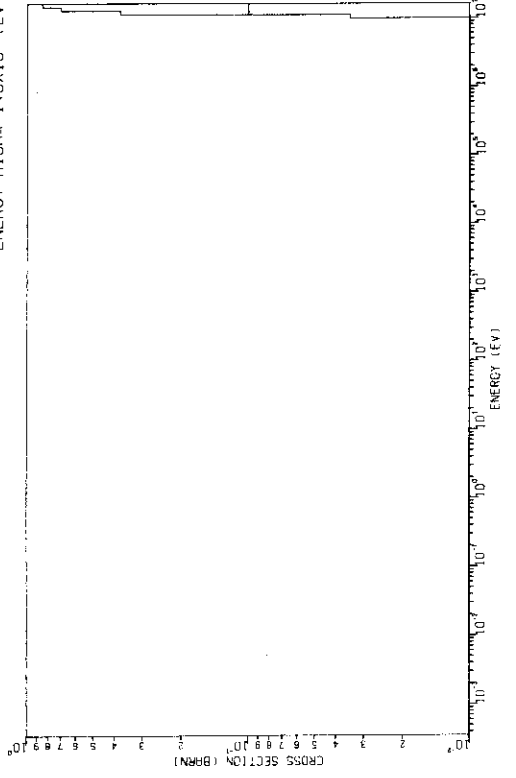
1197 MN-55 FROM ENDF/B-IV ( 300K )

(N,2N)

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



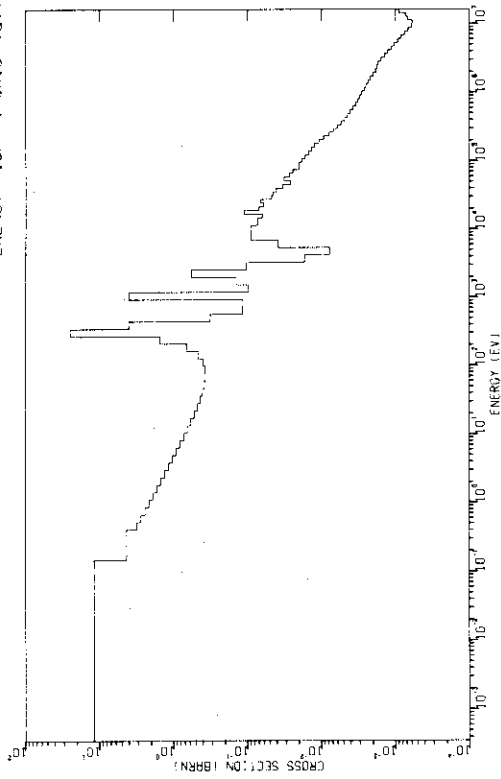
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

( N.C )

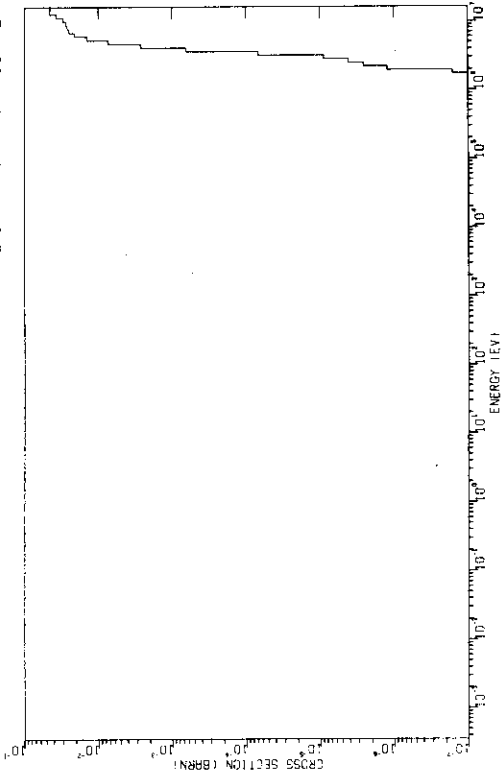
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

( N.P )

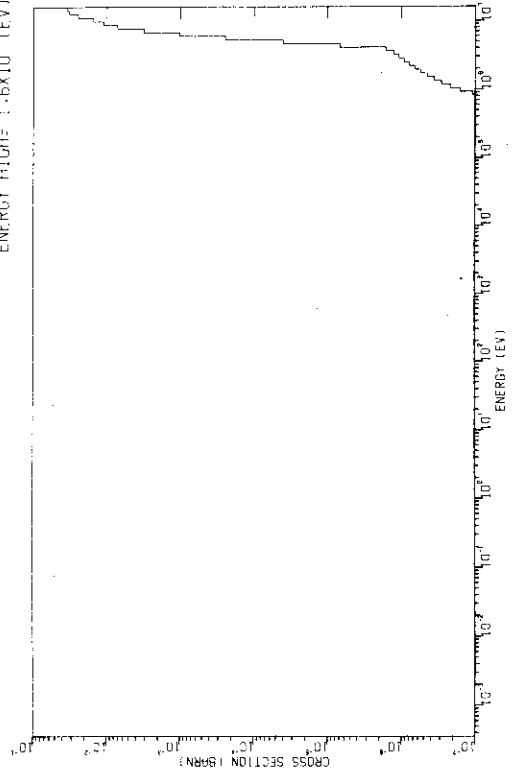
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

( N.R )

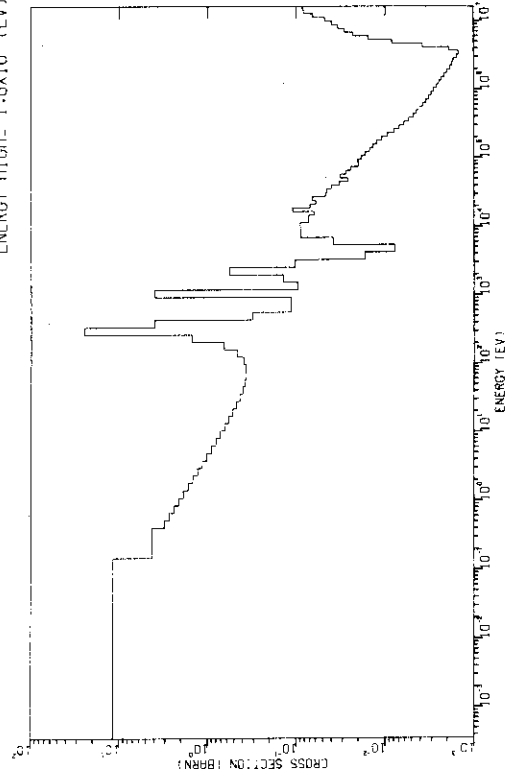
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

CAPTURE

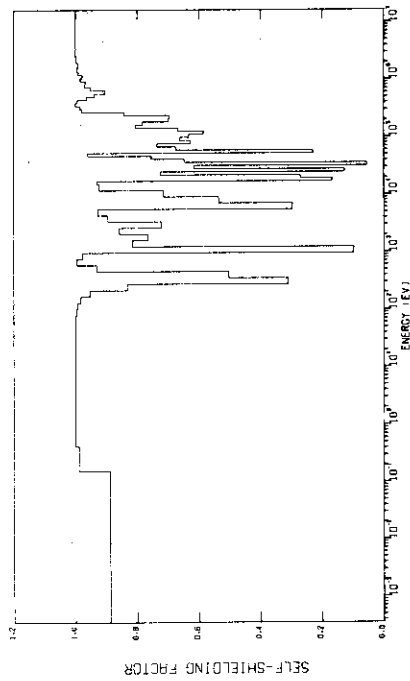
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

TOTAL

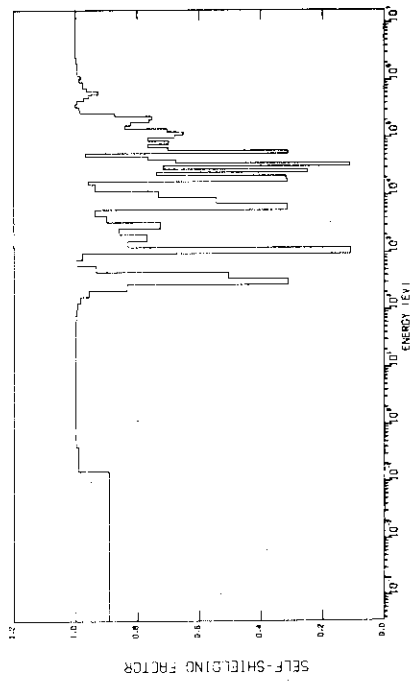
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

TOTAL

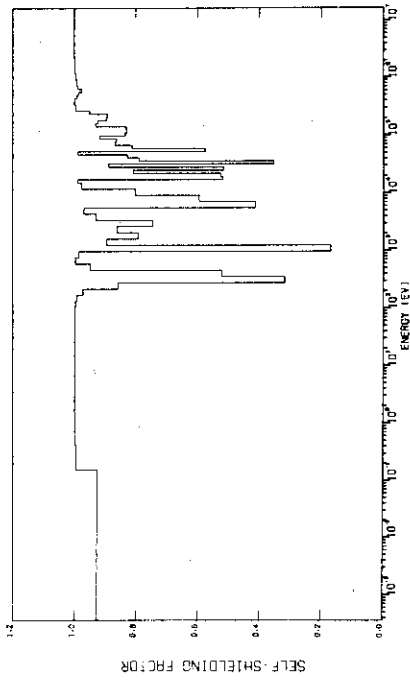
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

TOTAL

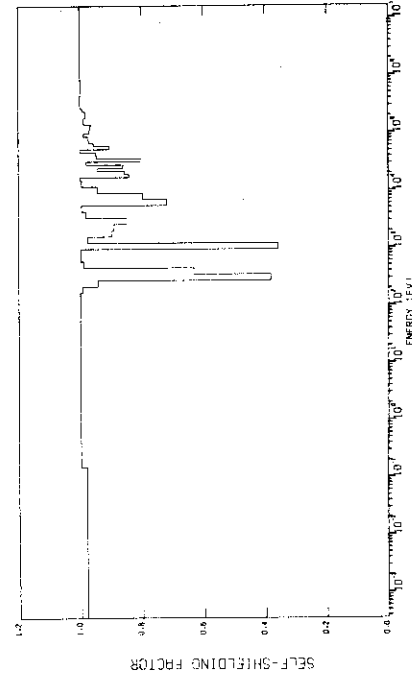
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

TOTAL

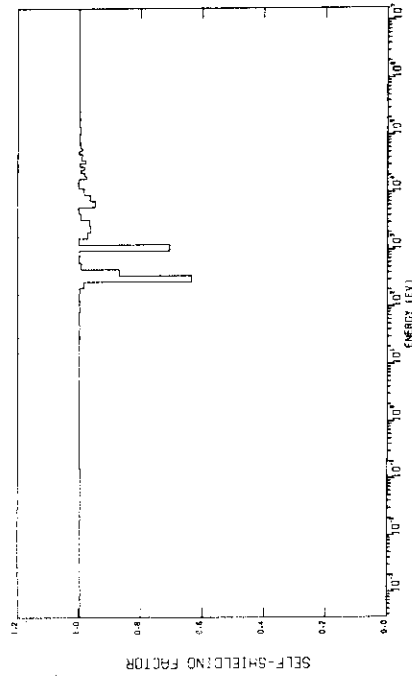
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

TOTAL

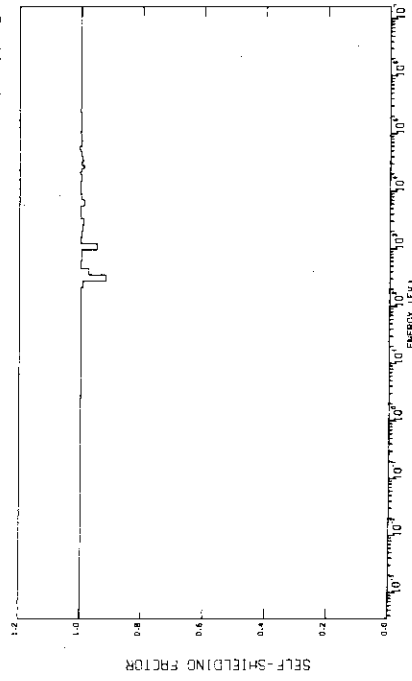
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

TOTAL

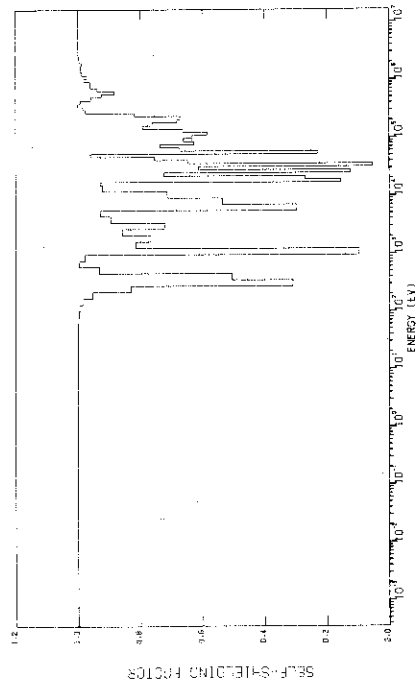
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-V ( 300K )

ELAS

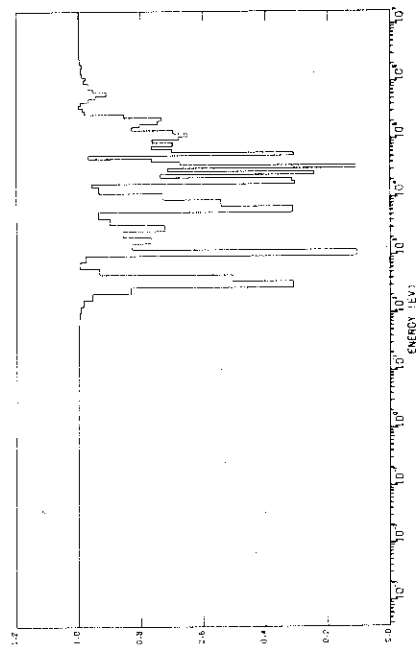
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

ELAS

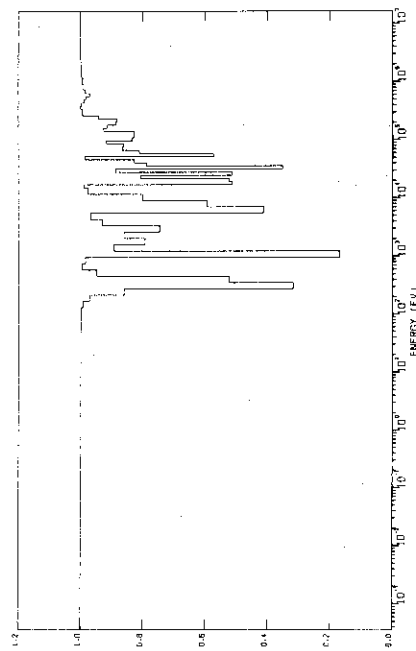
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

ELAS

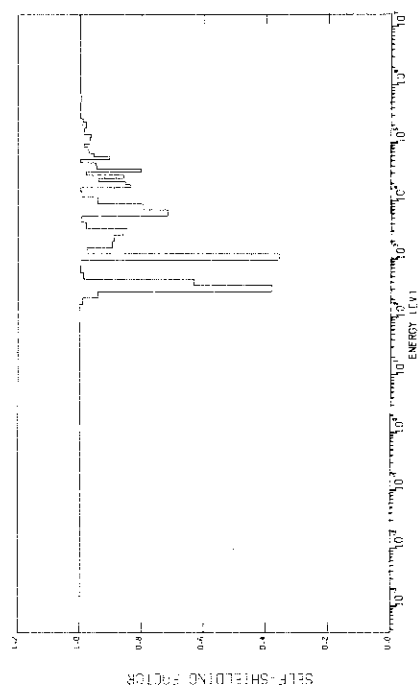
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1197 MN-55 FROM ENDF/B-V ( 300K )

ELAS

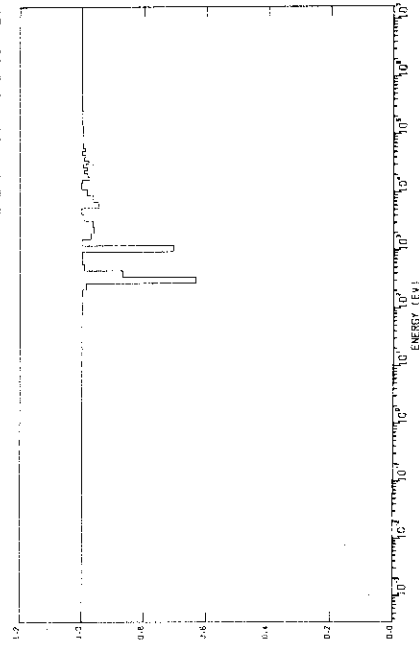
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

ELAS

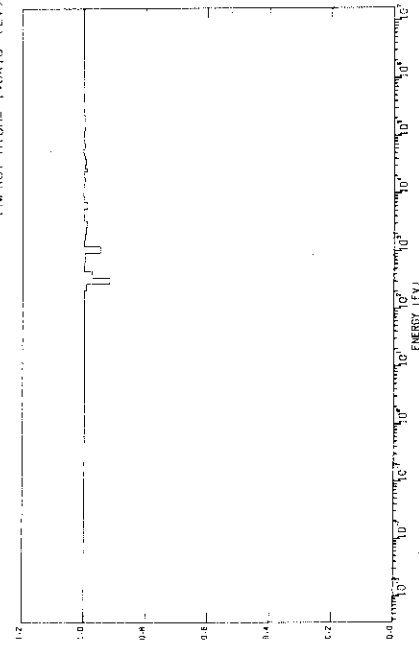
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

ELAS

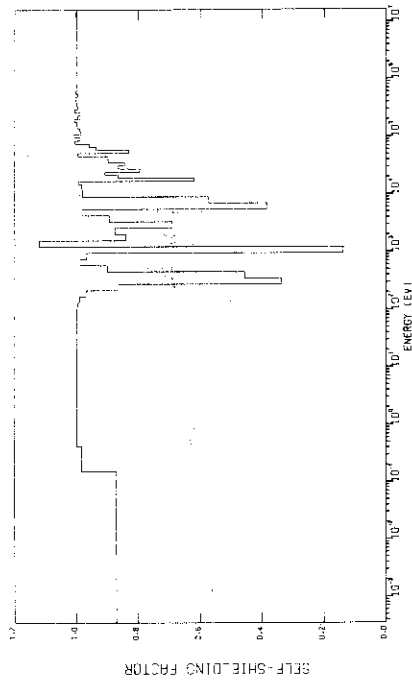
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

CAPTURE

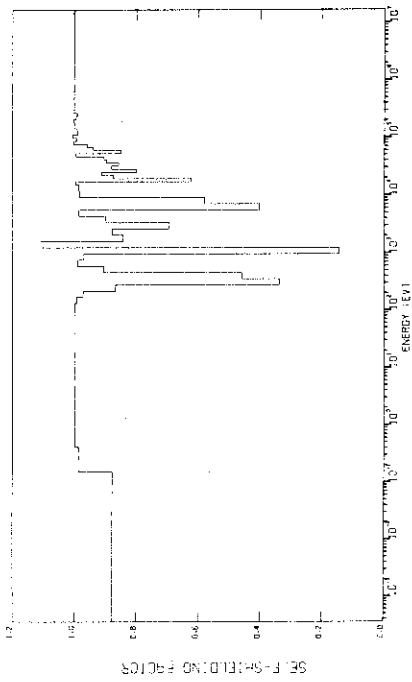
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

CAPTURE

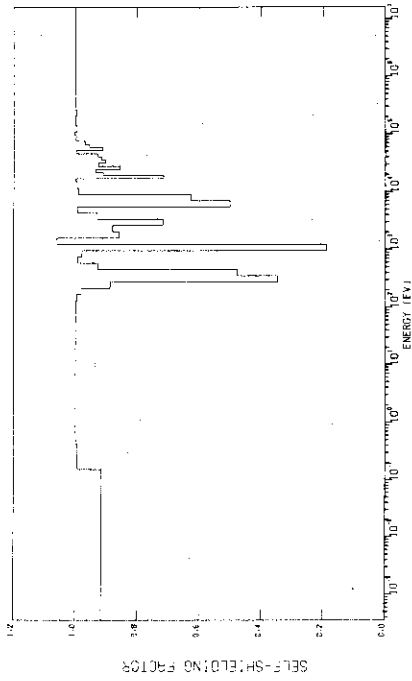
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

CAPTURE

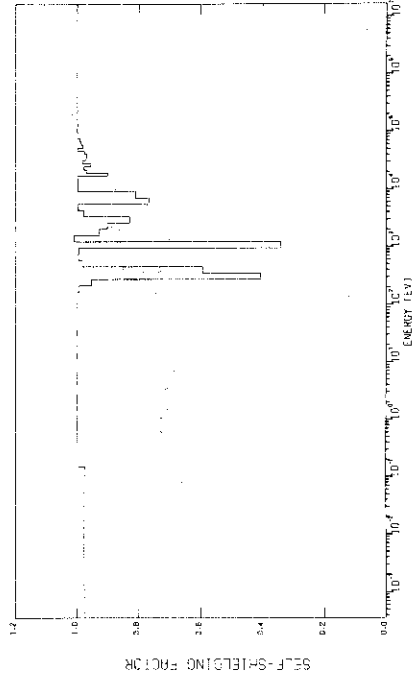
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

CAPTURE

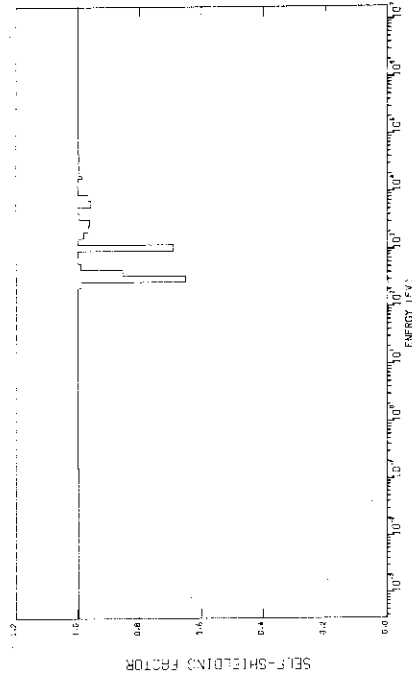
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

CAPTURE

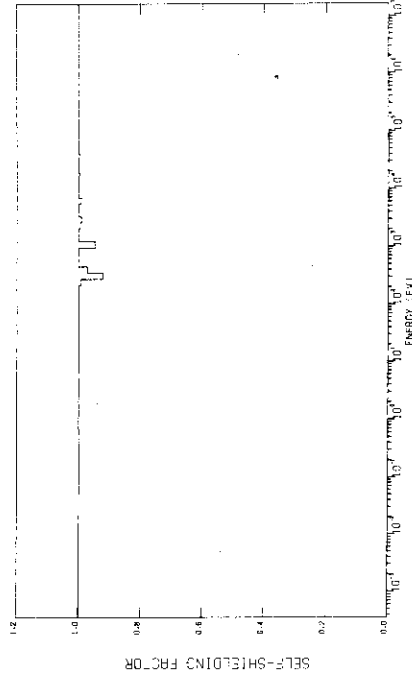
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV ( 300K )

CAPTURE

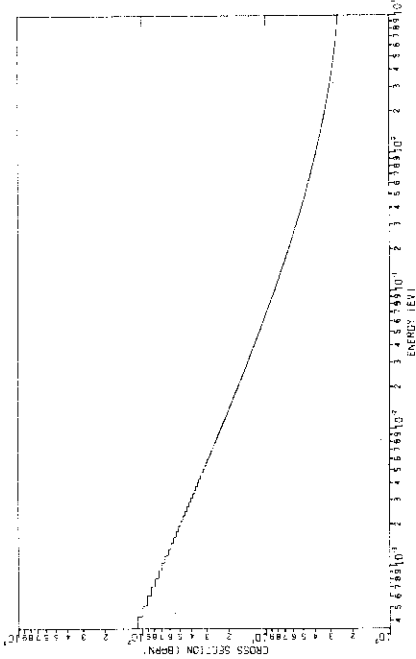
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 1

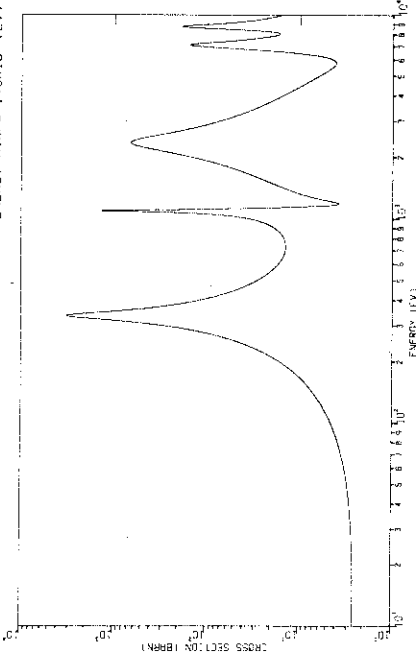
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 1

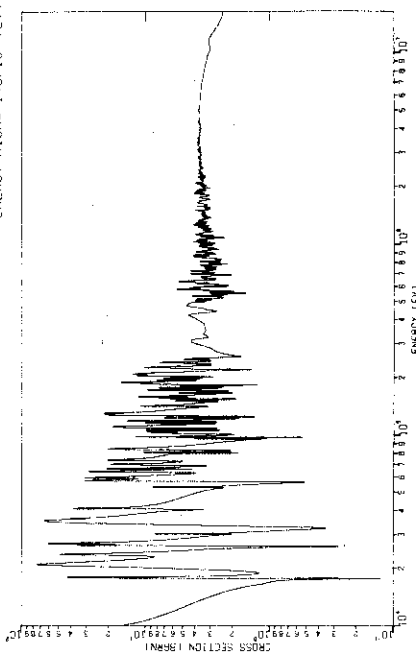
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 1

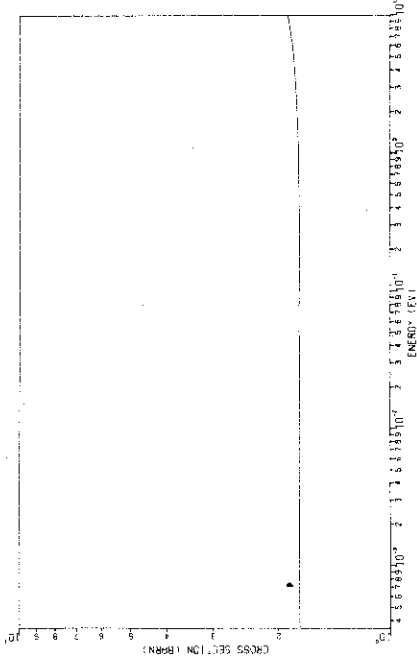
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>4</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 2

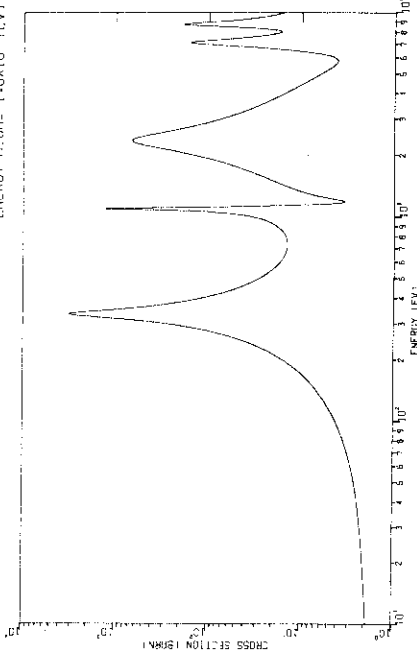
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 2

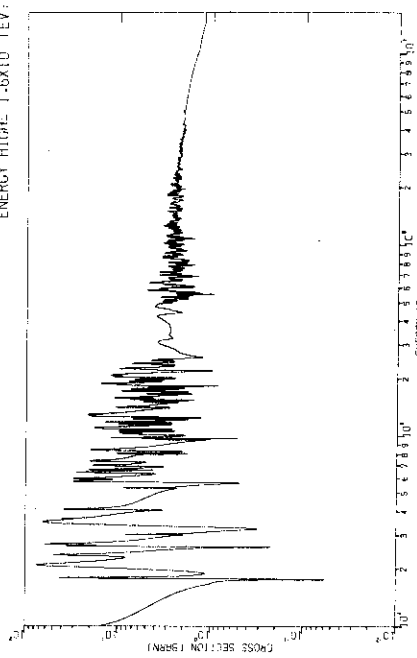
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 2

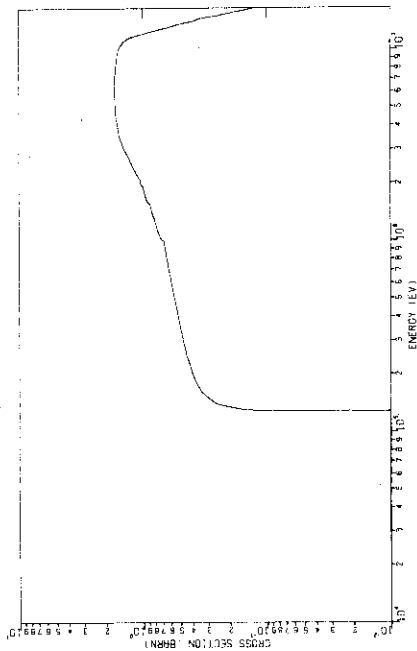
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>4</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 4

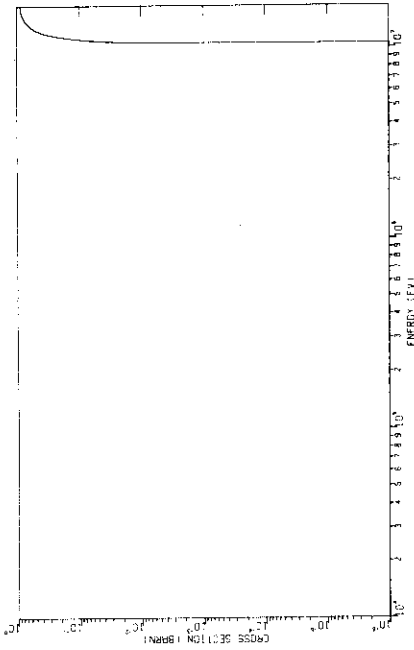
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 16

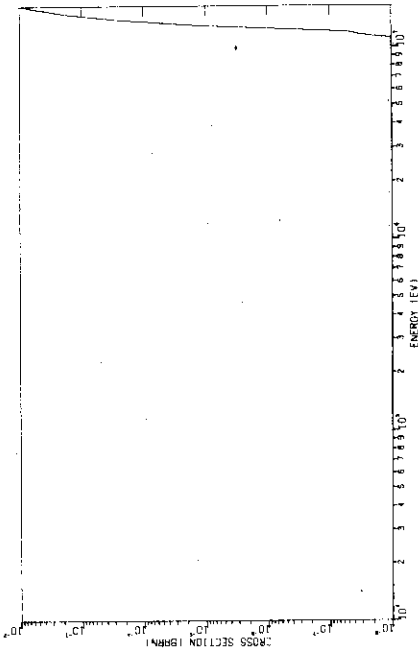
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 22

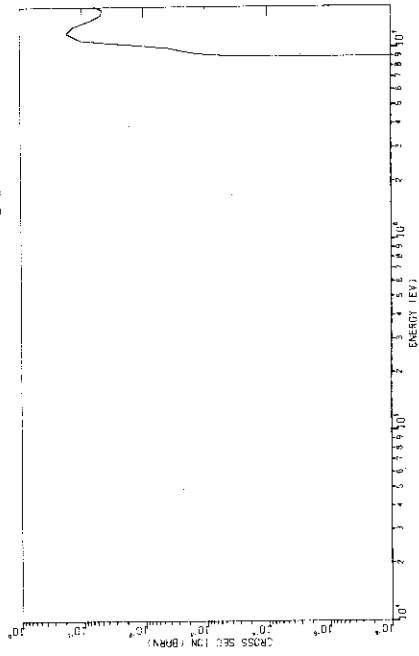
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 28

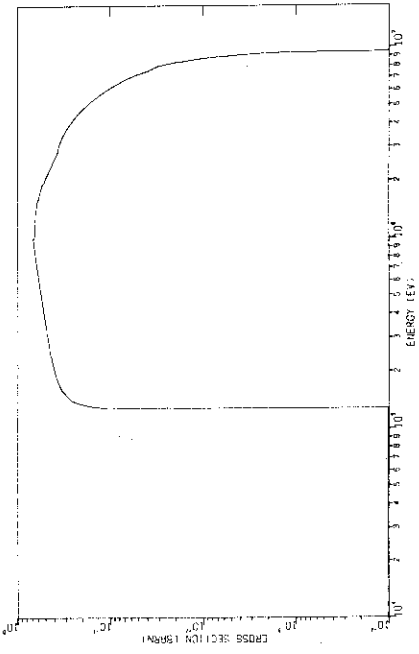
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 51

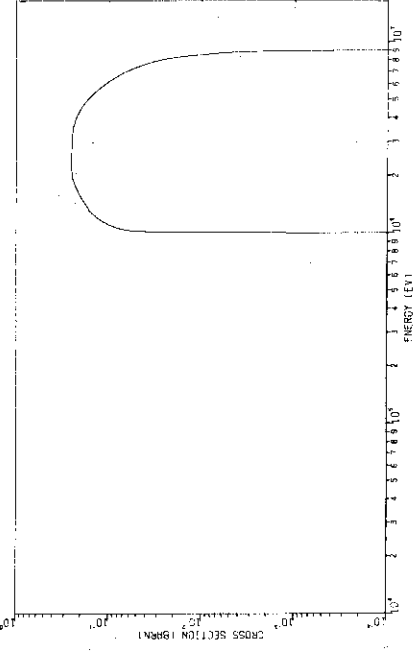
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 52

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

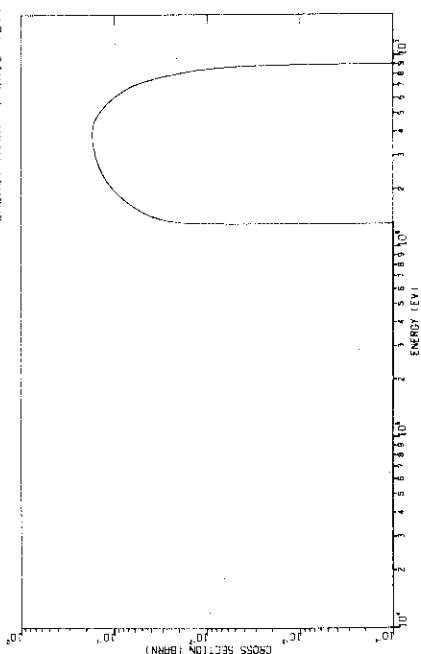




1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 53

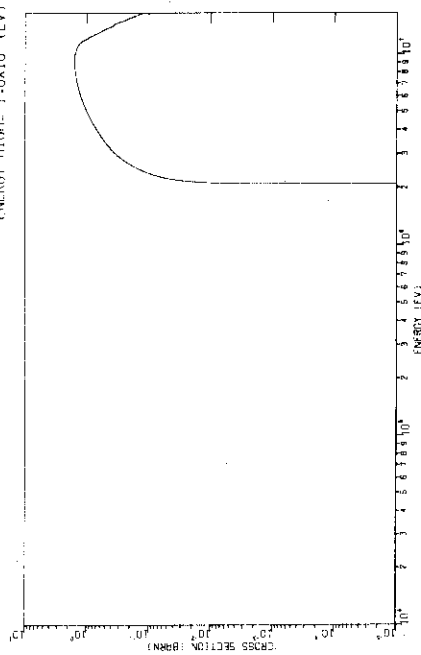
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 91

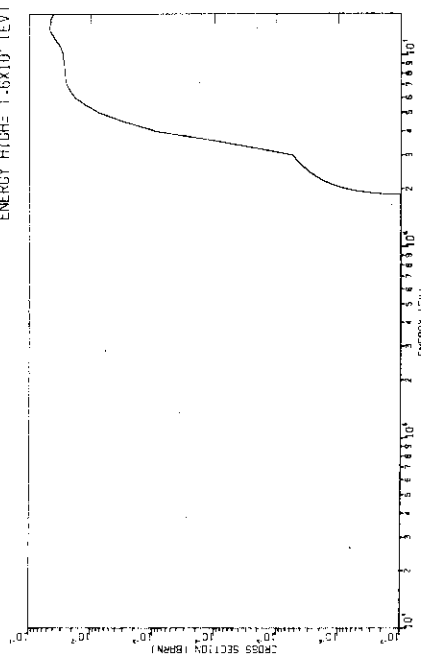
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 103

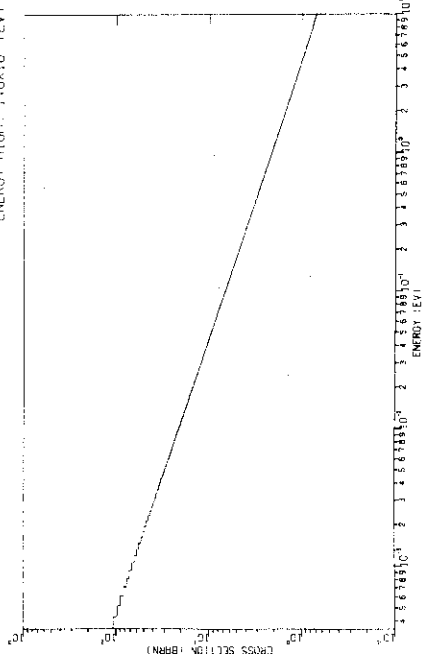
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 102

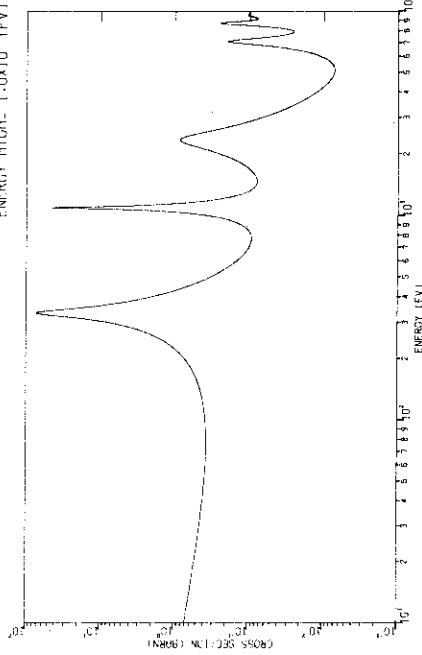
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 102

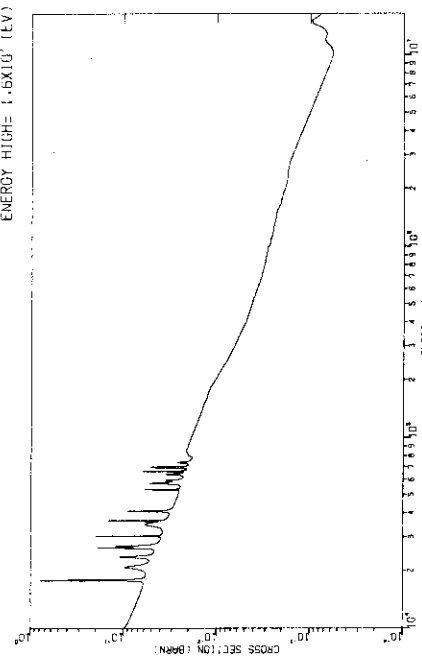
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 102

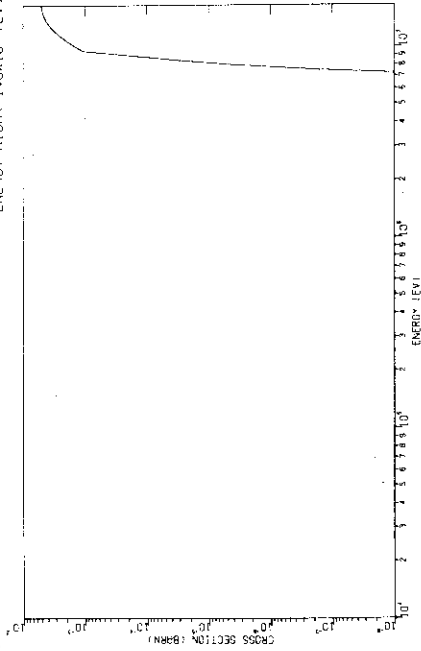
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B IV

REACTION TYPE = 104

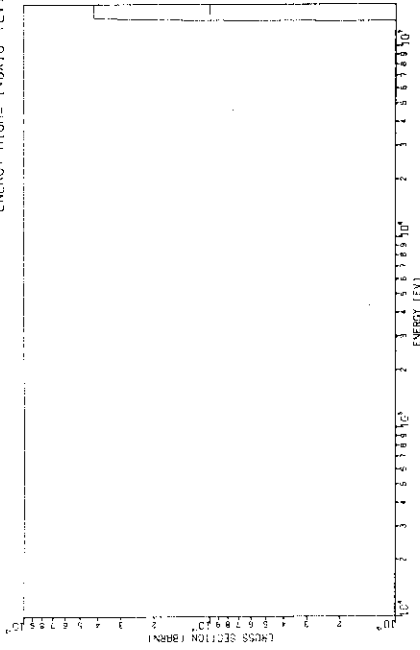
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 106

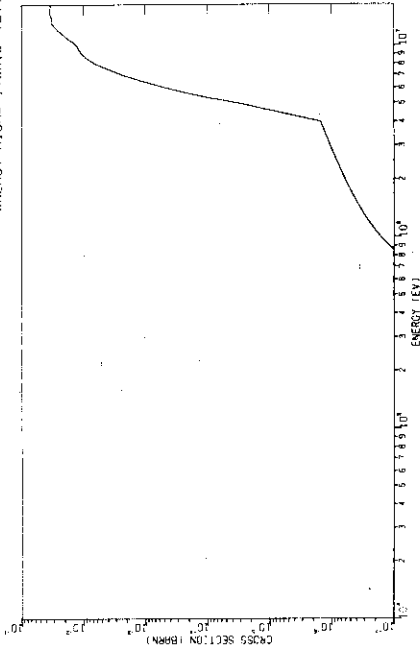
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1197 MN-55 FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

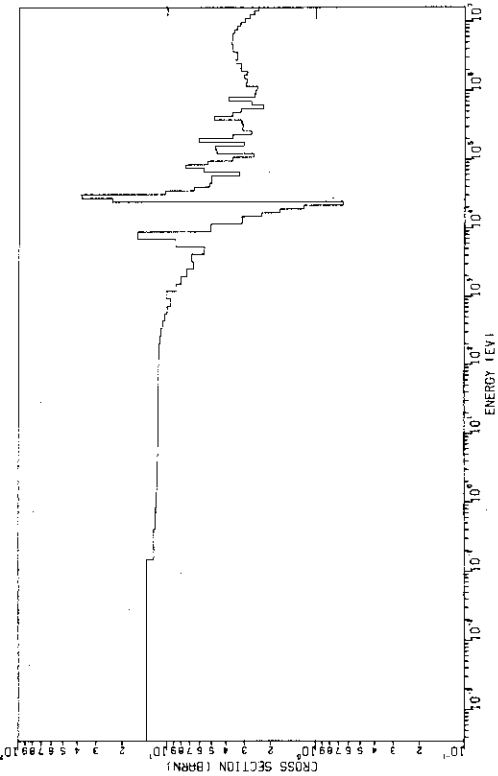


1192 FE FROM ENDF/B-IV ( 300K )

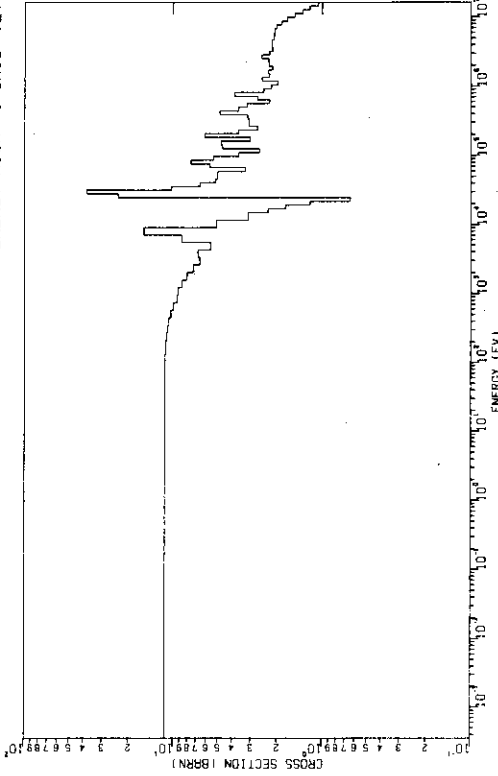
TOTAL

ELAS

TEMPERATURE = 300  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



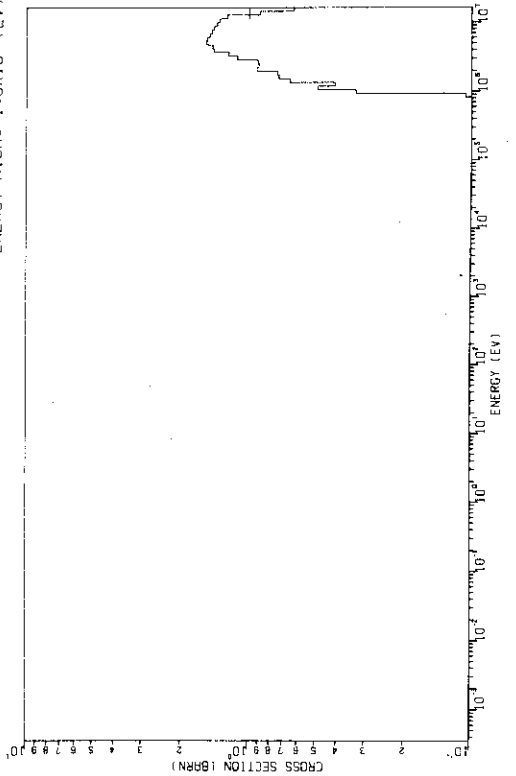
TEMPERATURE = 300  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV ( 300K )

INELAS

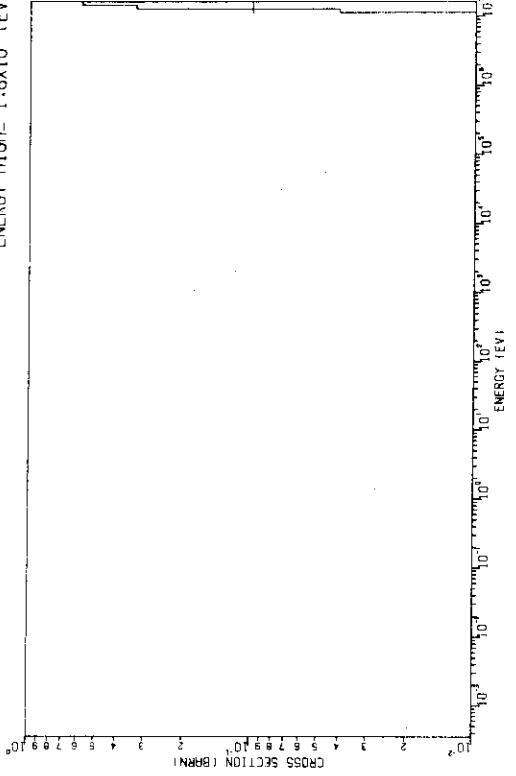
TEMPERATURE = 300  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

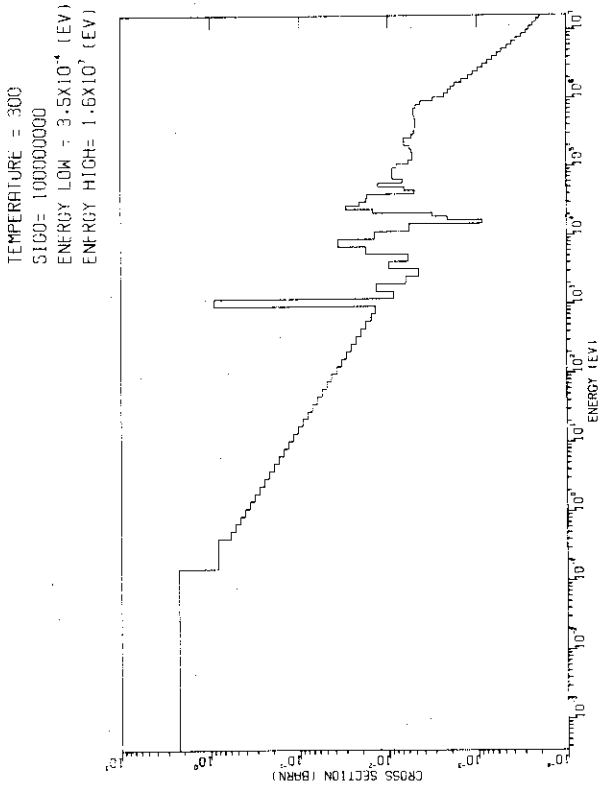
(N,2N)

1192 FE FROM ENDF/B-IV ( 300K )



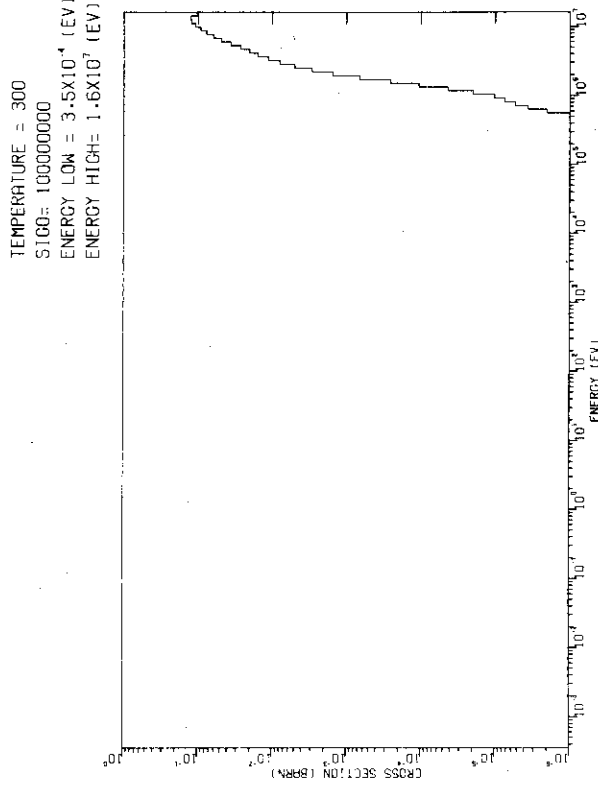
1192 FE FROM ENDF/B-IV ( 300K )

( N,C )



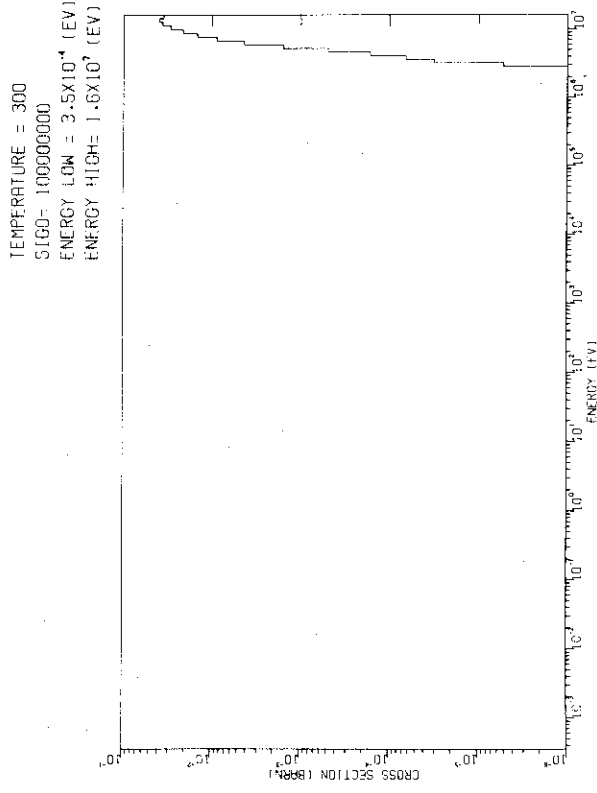
1192 FE FROM ENDF/B-IV ( 300K )

( N,P )



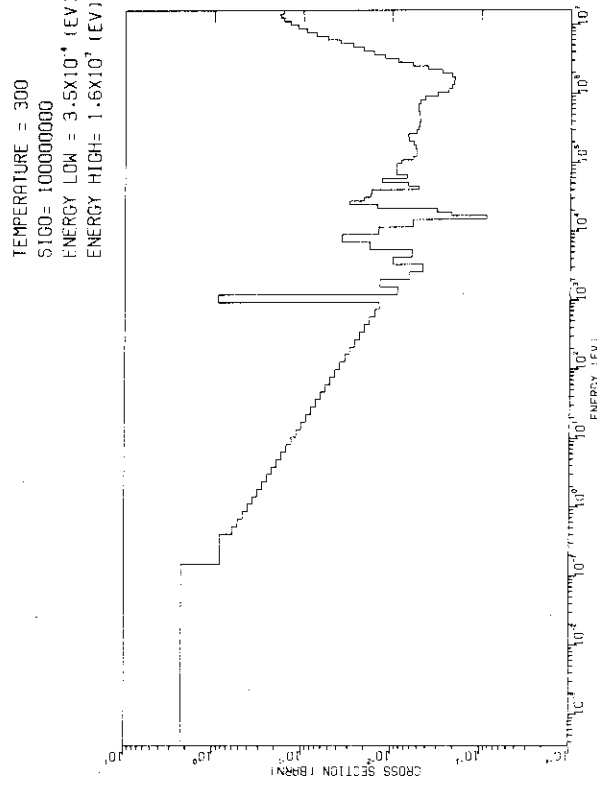
1192 FE FROM ENDF/B-IV ( 300K )

( N,A )



1192 FE FROM ENDF/B-IV ( 300K )

CAPTURE

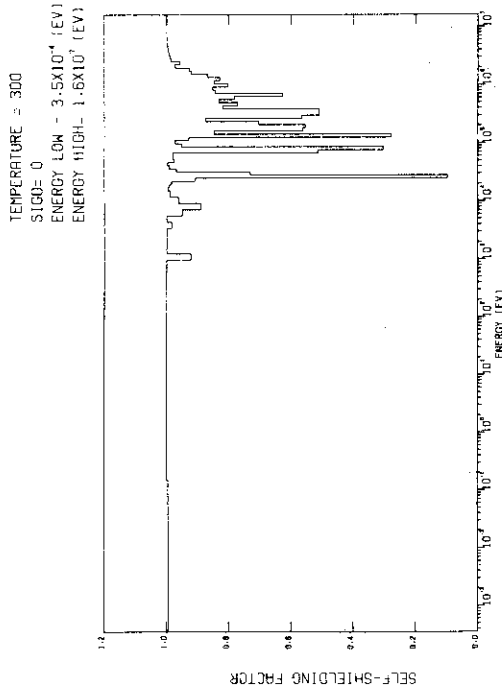


**<sup>26</sup>Fe**  
**1192**

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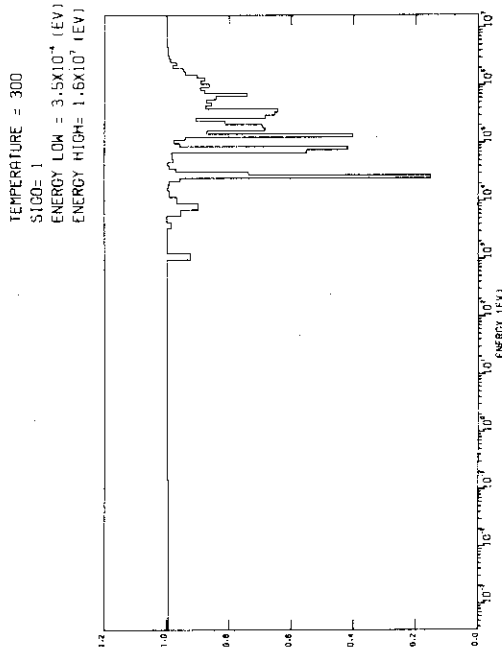
1192 FE FROM ENDF/B-IV ( 300K )

TOTAL



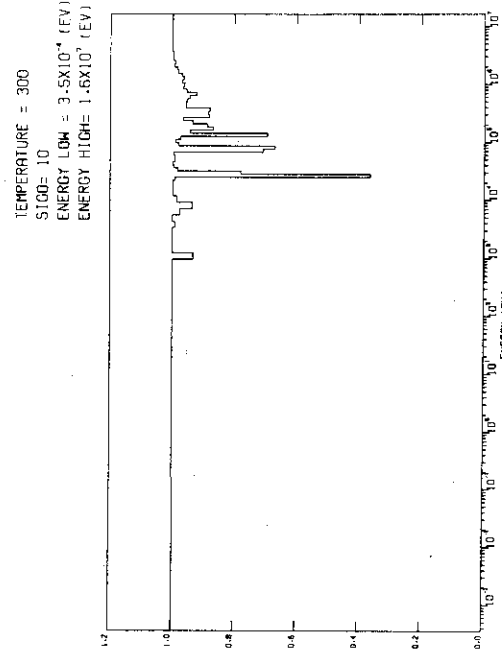
1192 FE FROM ENDF/B-IV ( 300K )

TOTAL



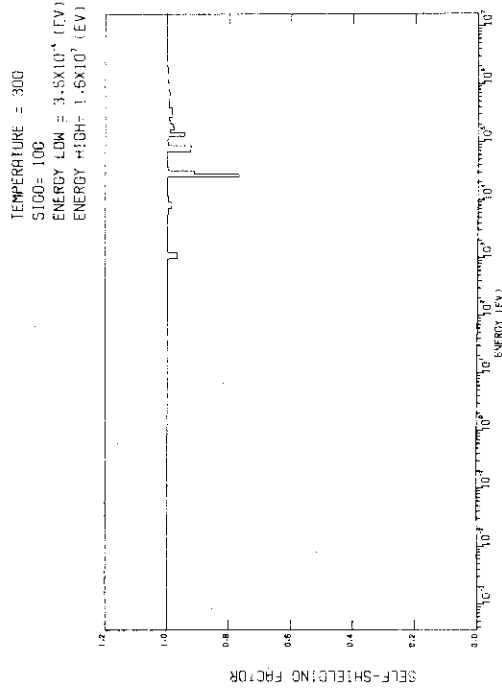
1192 FE FROM ENDF/B-IV ( 300K )

TOTAL



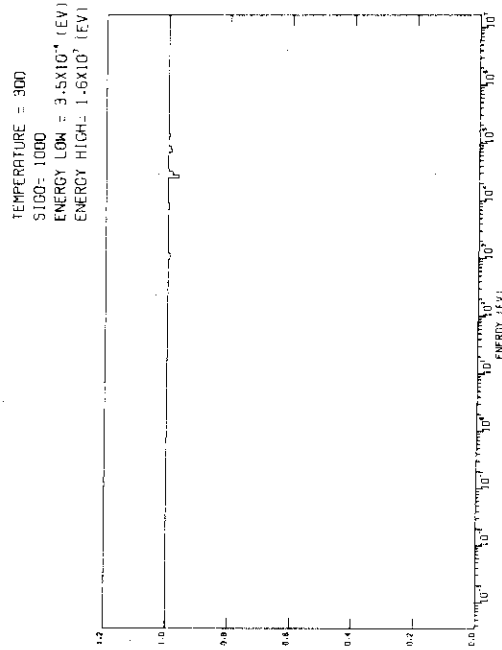
1192 FE FROM ENDF/B-IV ( 300K )

TOTAL



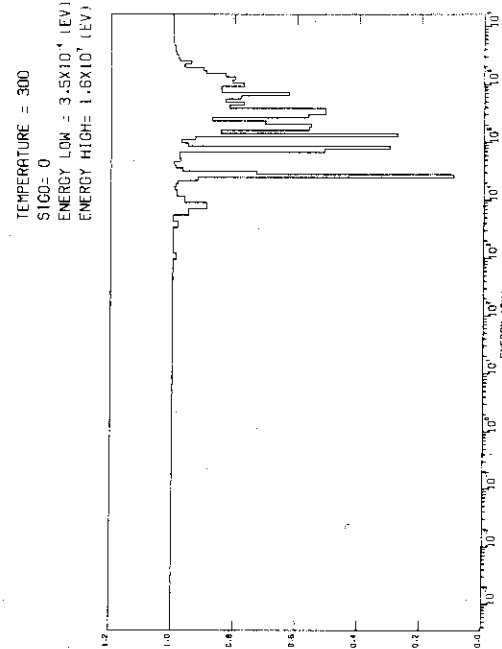
1192 FE FROM ENDF/B-IV ( 300K )

TOTAL



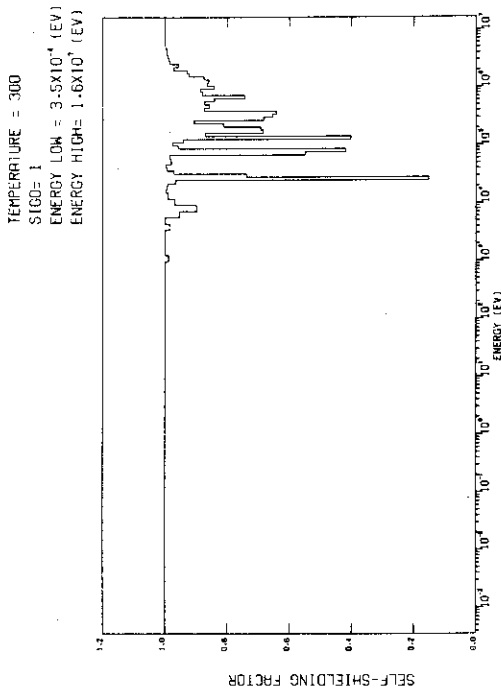
1192 FE FROM ENDF/B-IV ( 300K )

ELAS



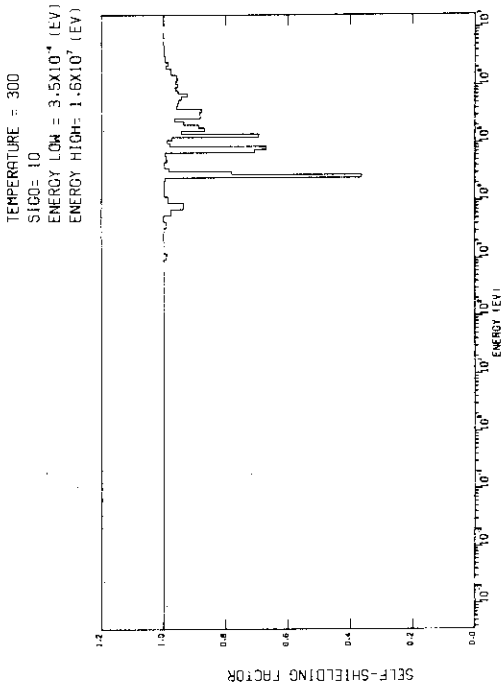
1192 FE FROM ENDF/B-IV ( 300K )

ELRS



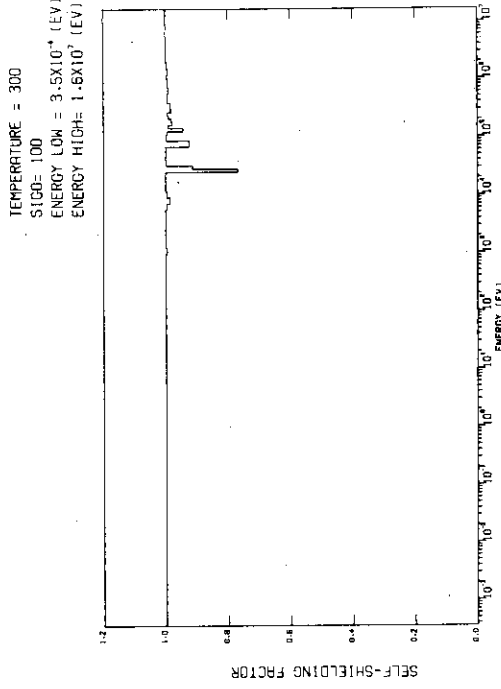
1192 FE FROM ENDF/B-IV ( 300K )

ELRS



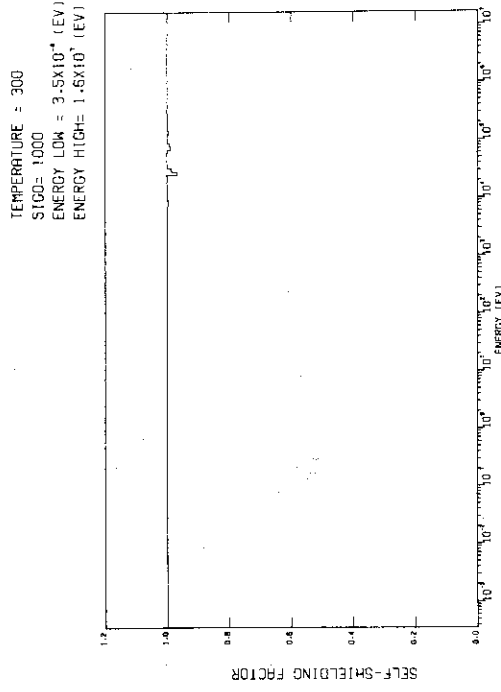
1192 FE FROM ENDF/B-IV ( 300K )

ELRS



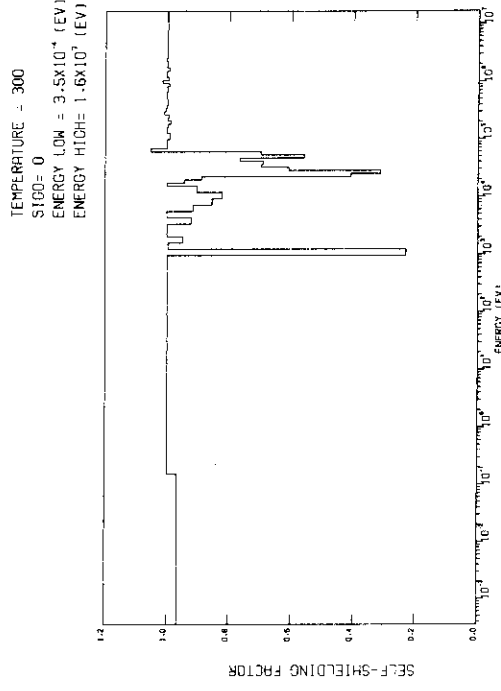
1192 FE FROM ENDF/B-IV ( 300K )

ELRS



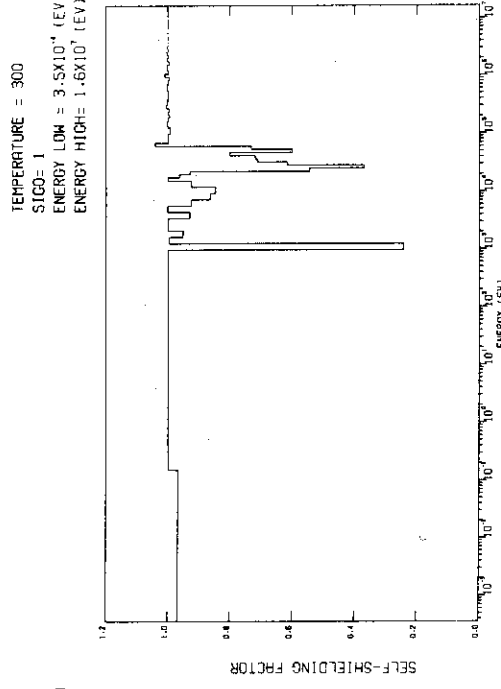
1192 FE FROM ENDF/B-IV ( 300K )

CAPTURE



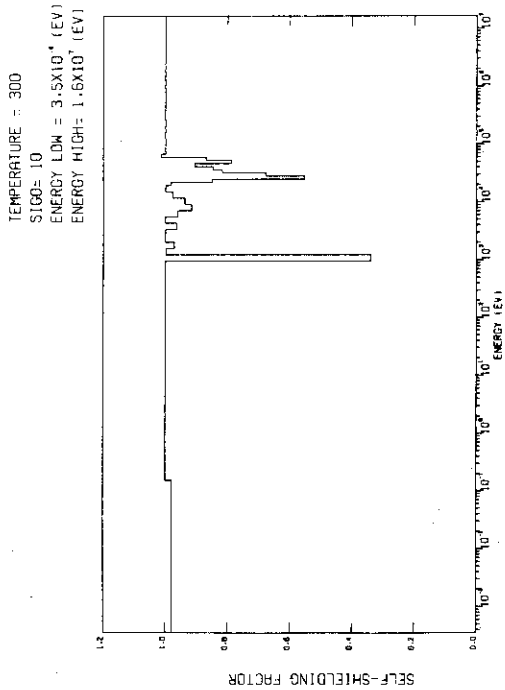
1192 FE FROM ENDF/B-IV ( 300K )

CAPTURE



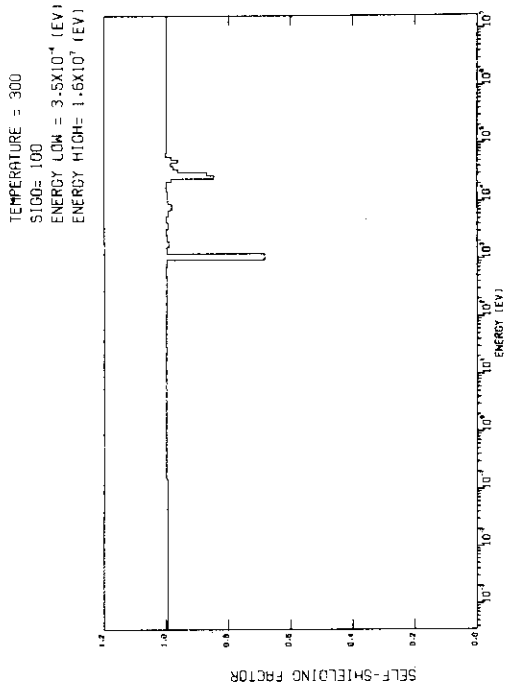
1192 FE FROM ENDF/B-IV ( 300K )

CAPTURE



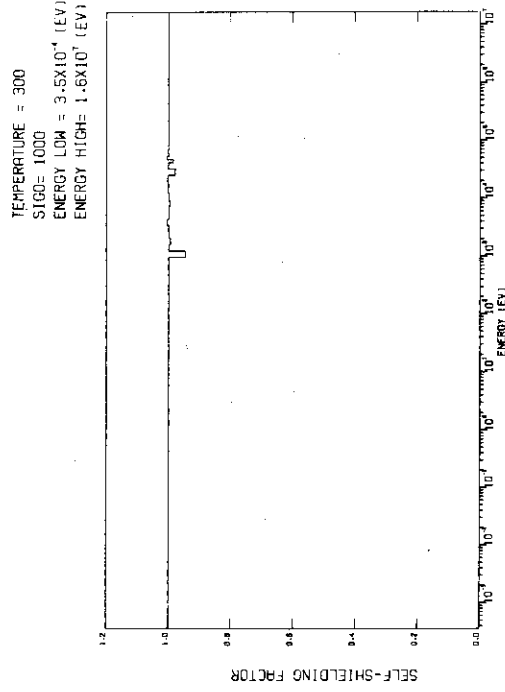
1192 FE FROM ENDF/B-IV ( 300K )

CAPTURE



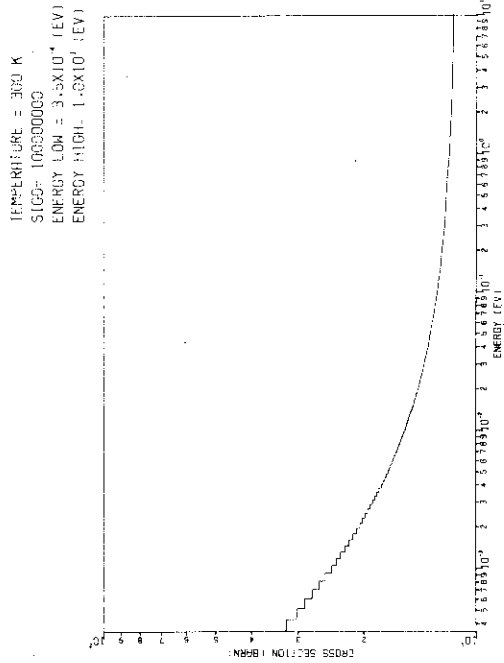
1192 FE FROM ENDF/B-IV ( 300K )

CAPTURE



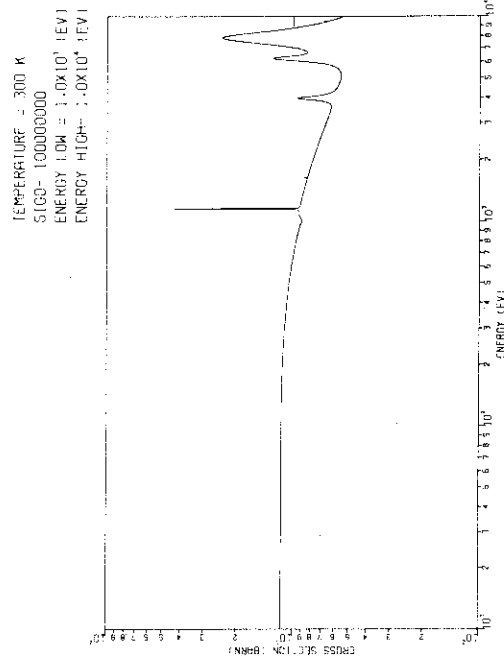
1192 FE FROM ENDF/B-IV

REACTION TYPE = 1



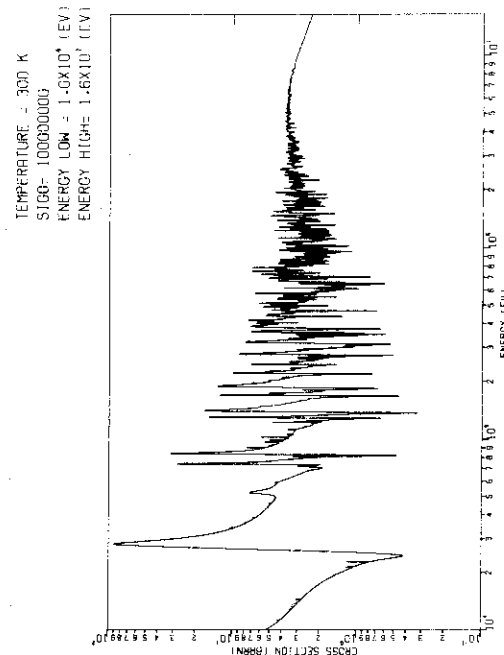
1192 FE FROM ENDF/B-IV

REACTION TYPE = 1



1192 FE FROM ENDF/B-IV

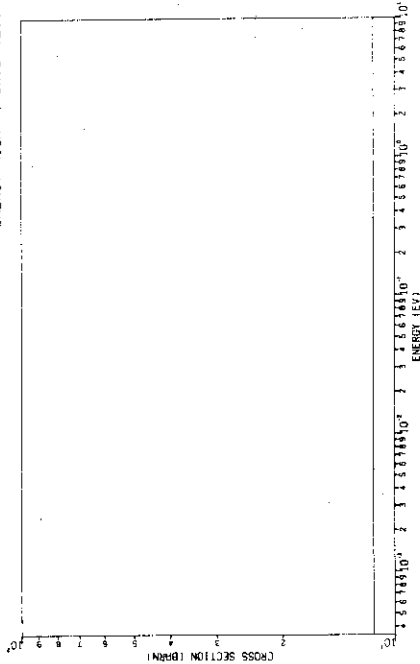
REACTION TYPE = 1



1192 FE FROM ENDF/B-IV

REACTION TYPE = 2

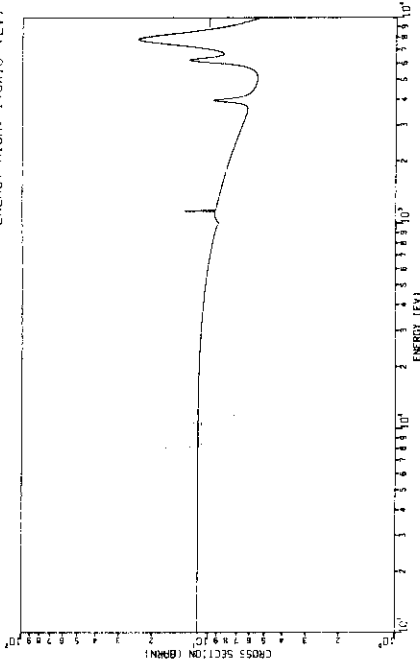
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 2

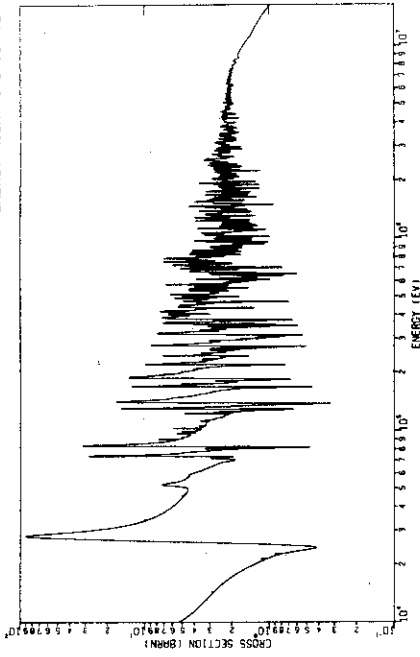
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 2

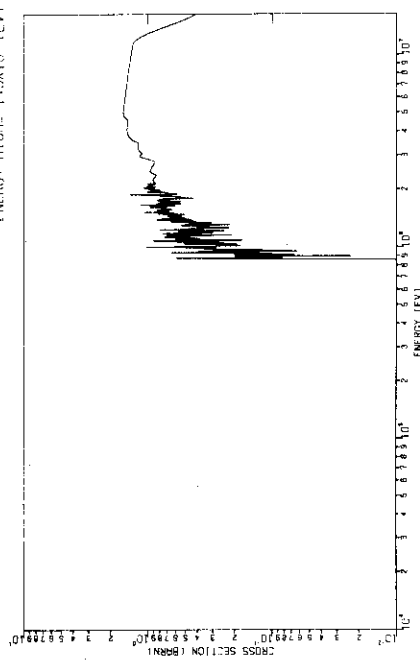
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 4

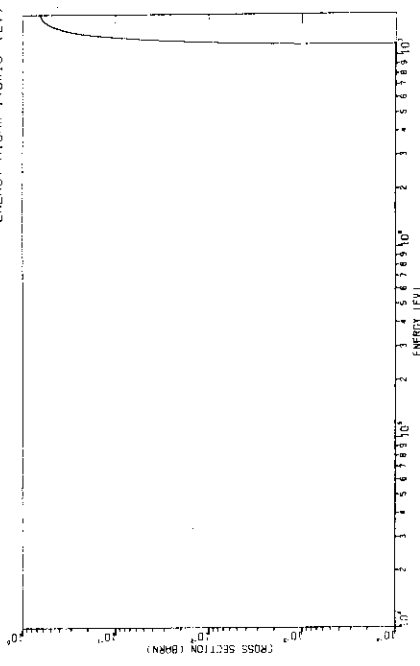
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 16

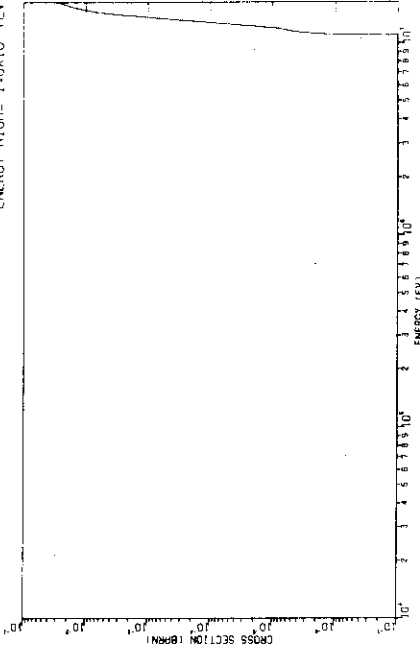
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 22

TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)

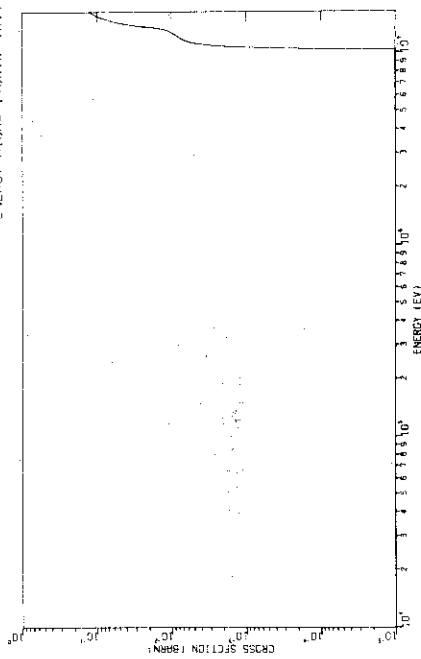




1192 FE FROM ENDF/B-IV

REACTION TYPE = 20

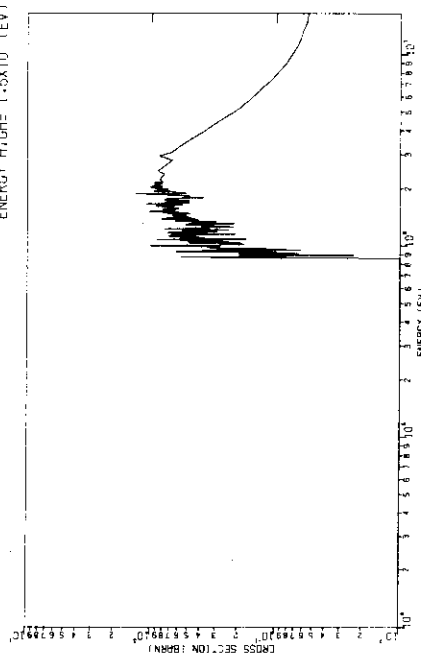
TEMPERATURE = 350 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 51

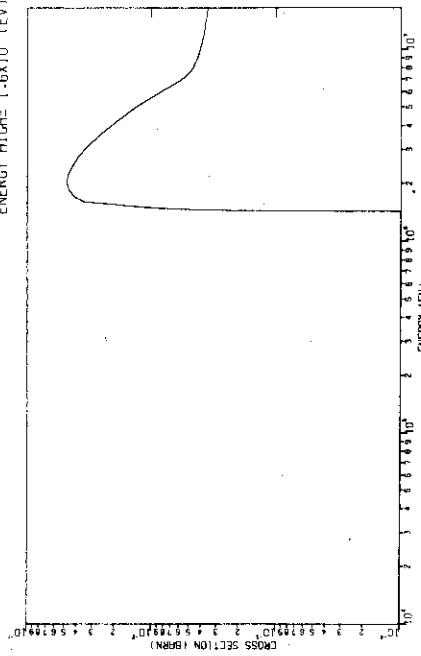
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 52

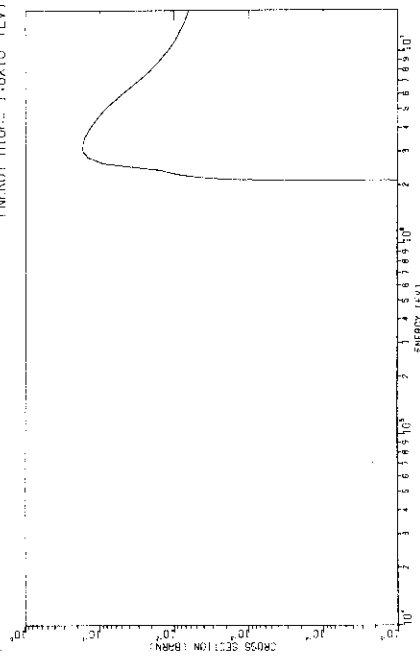
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 53

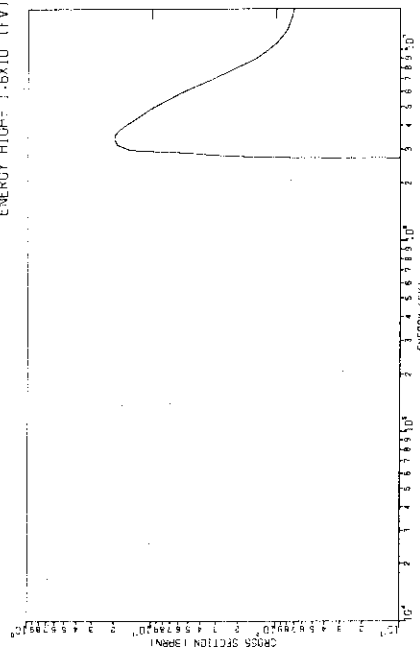
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 54

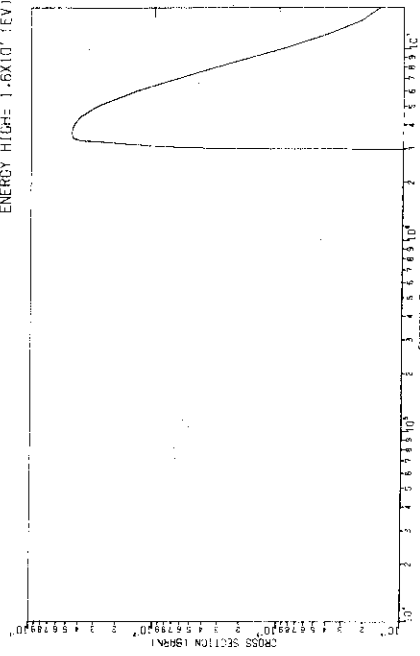
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 55

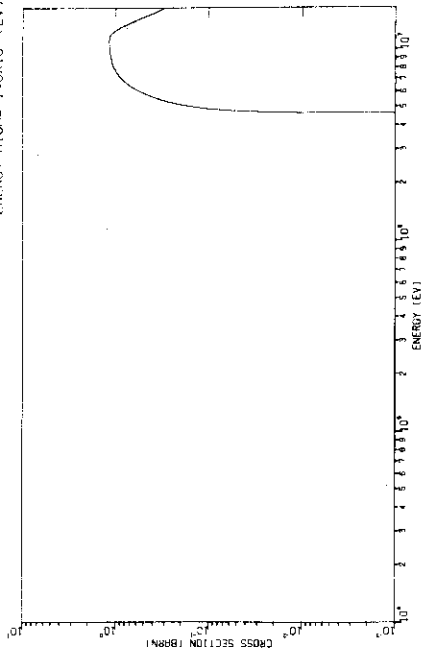
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 91

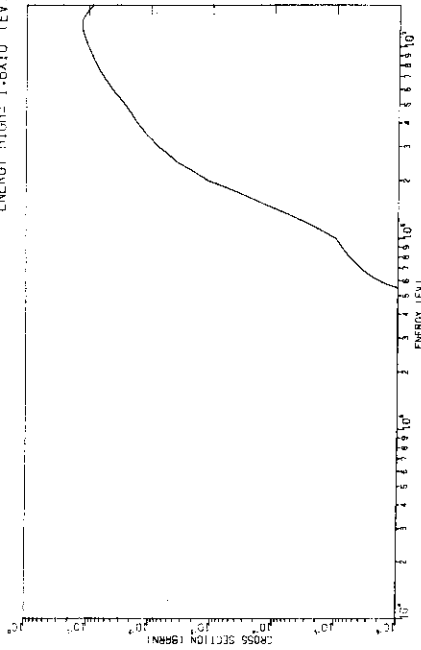
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 103

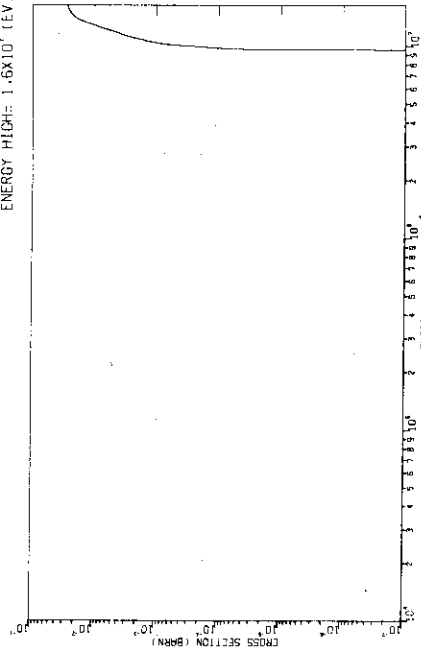
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 104

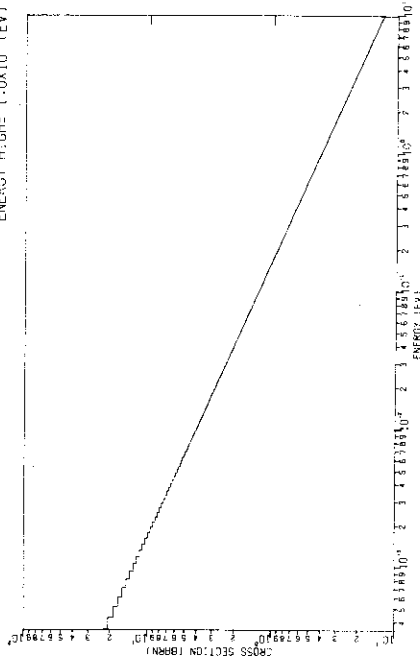
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 102

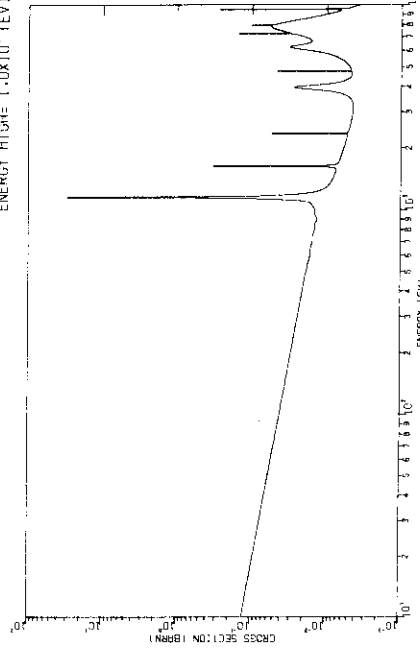
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 102

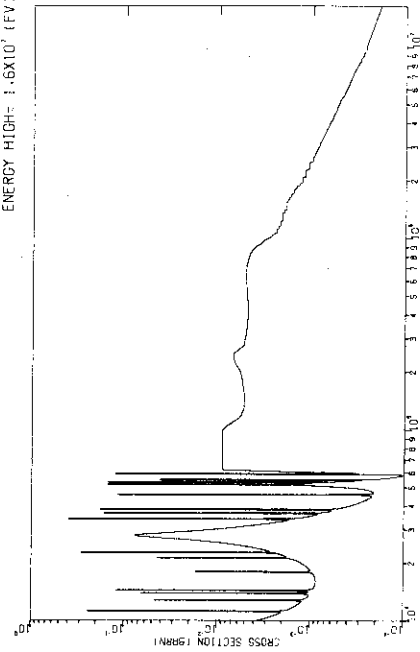
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

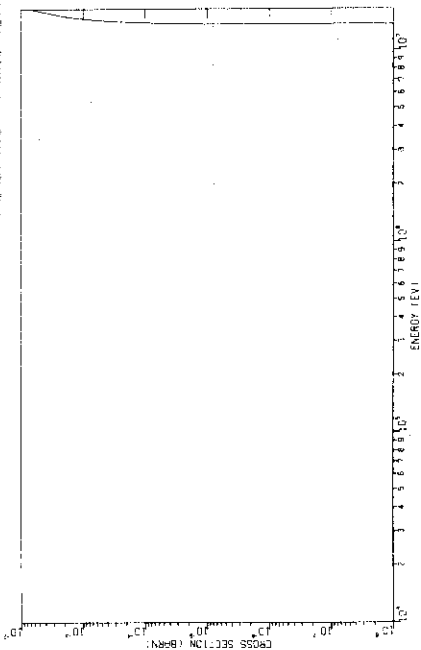


<sup>26</sup>Fe  
1192

1192 FE FROM ENDF/B-IV

REACTION TYPE = 105

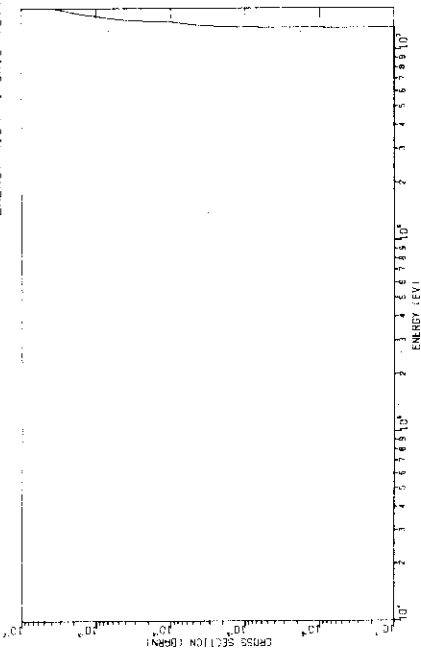
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 106

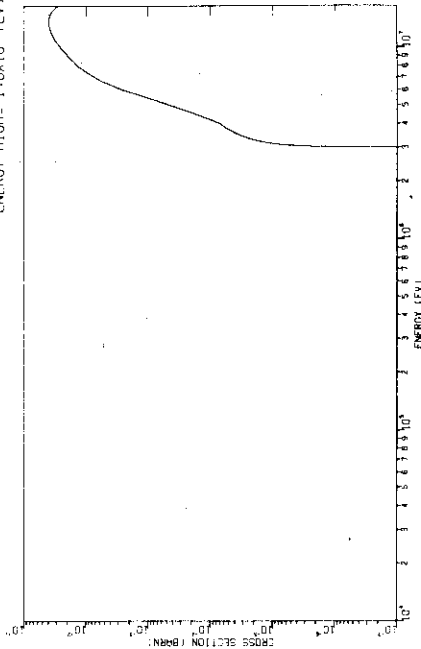
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1192 FE FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



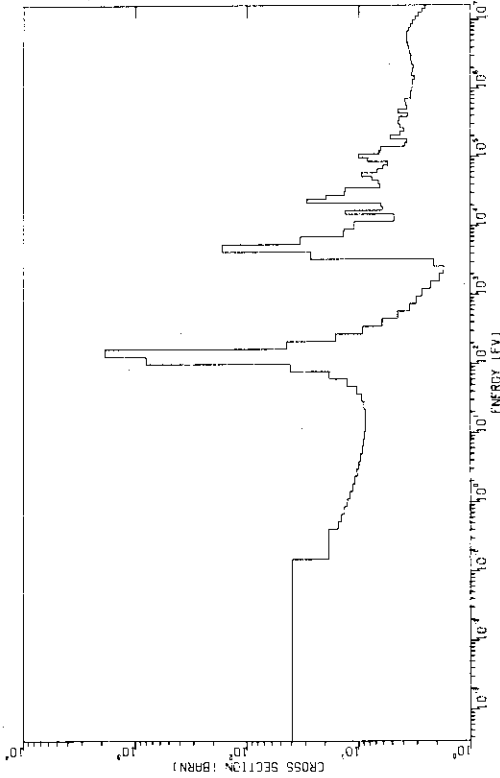
1199 CO-59 FROM ENDF/B-IV ( 300K )

TOTAL

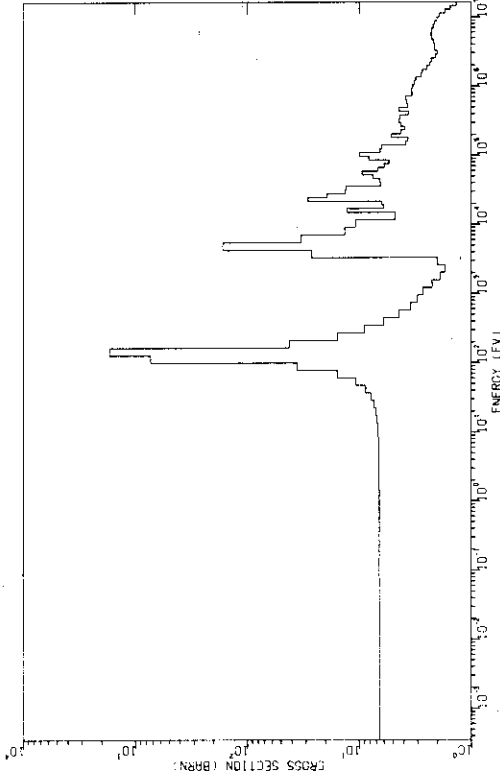
1199 CO-59 FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



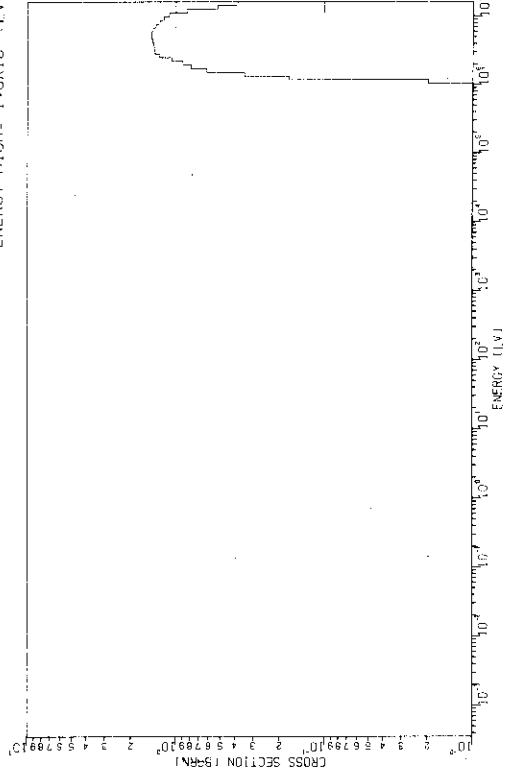
1199 CO-59 FROM ENDF/B-IV ( 300K )

INELAS

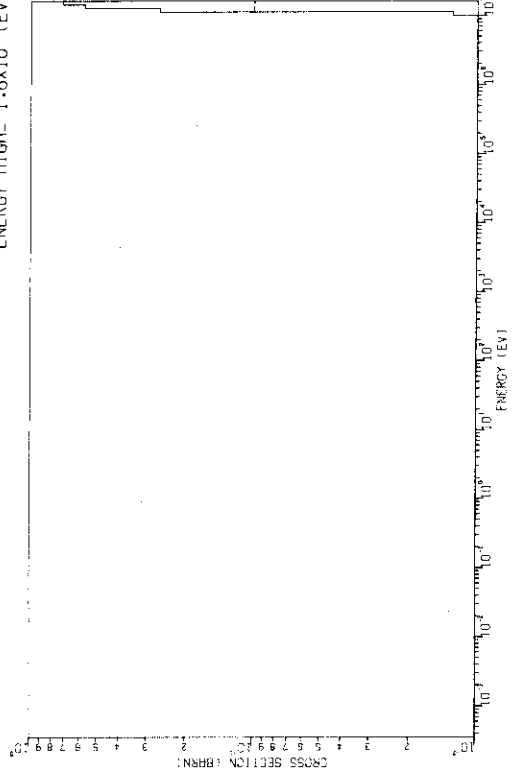
1199 CO-59 FROM ENDF/B-IV ( 300K )

(N,2N)

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

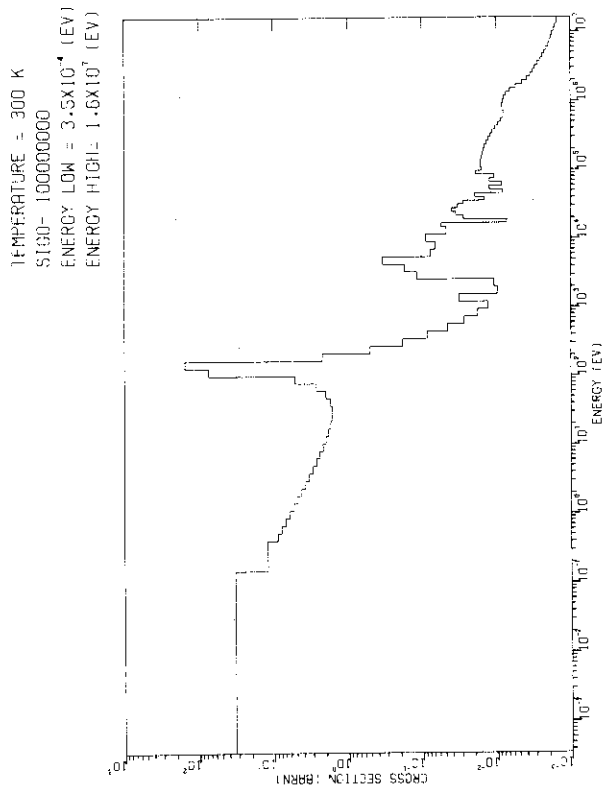


TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



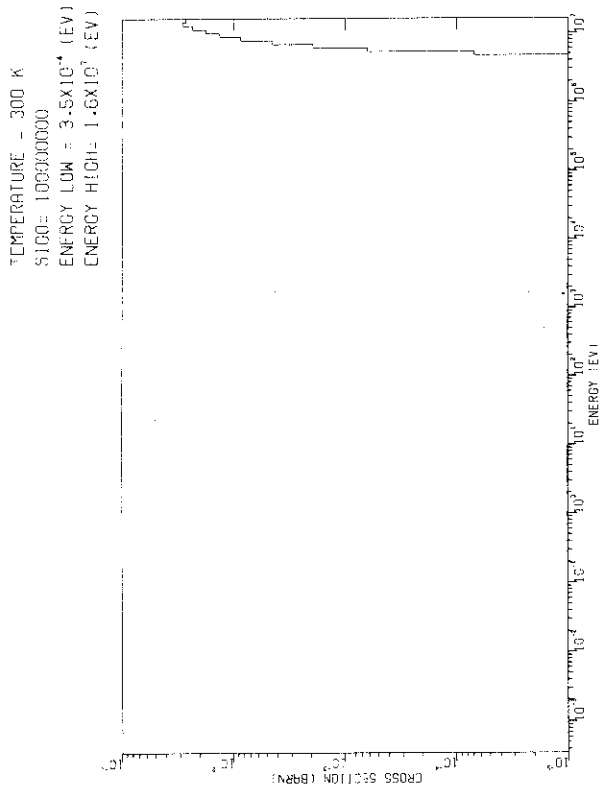
1199 CO-59 FROM ENDF/B-IV ( 300K )

( N,0 )



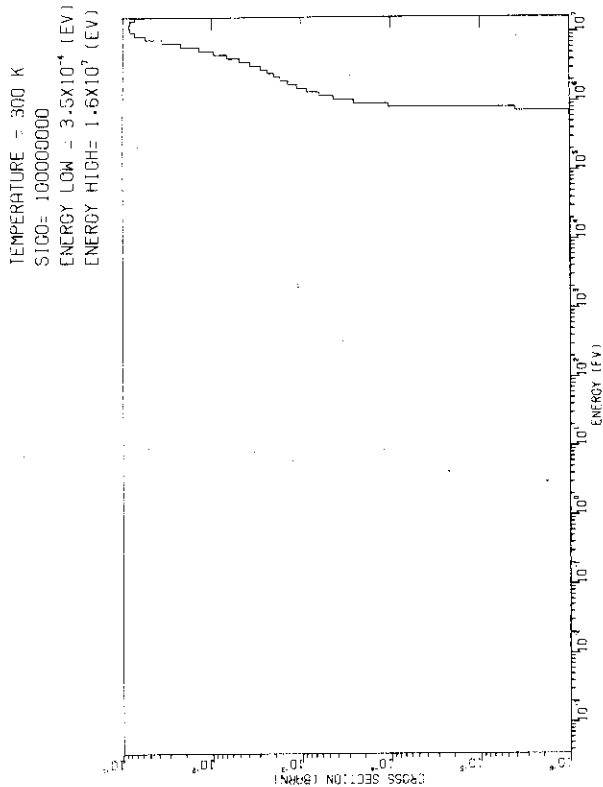
1199 CO-59 FROM ENDF/B-IV ( 300K )

( N,H )



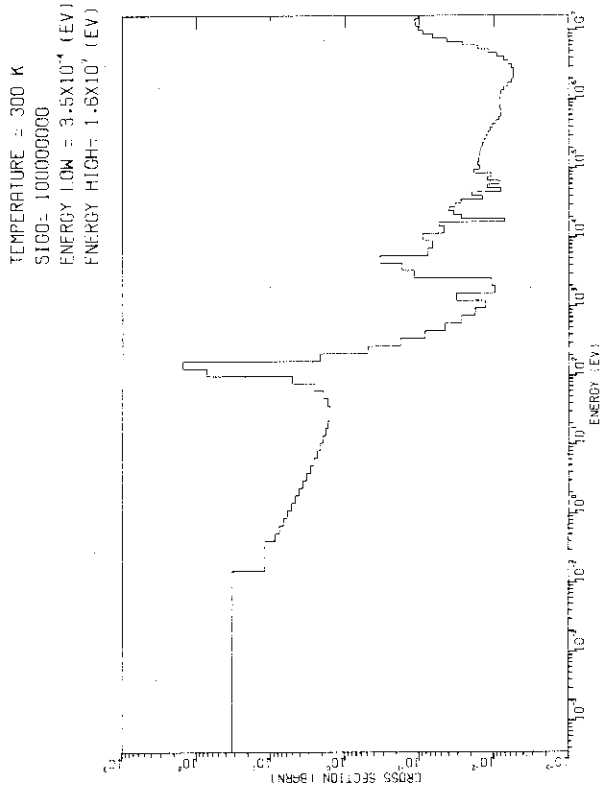
1199 CO-59 FROM ENDF/B-IV ( 300K )

( N,P )



1199 CO 59 FROM ENDF/B-IV ( 300K )

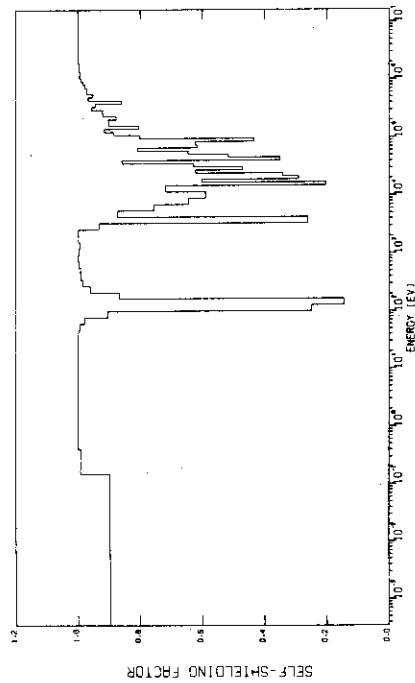
CAPTURE



1199 CO-59 FROM ENDF/B-IV ( 300K )

TOTAL

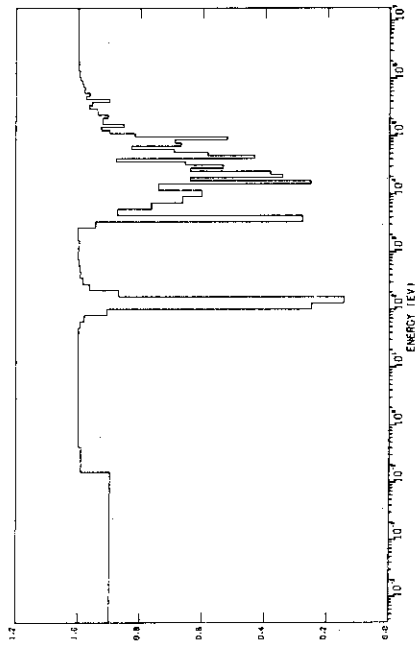
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

TOTAL

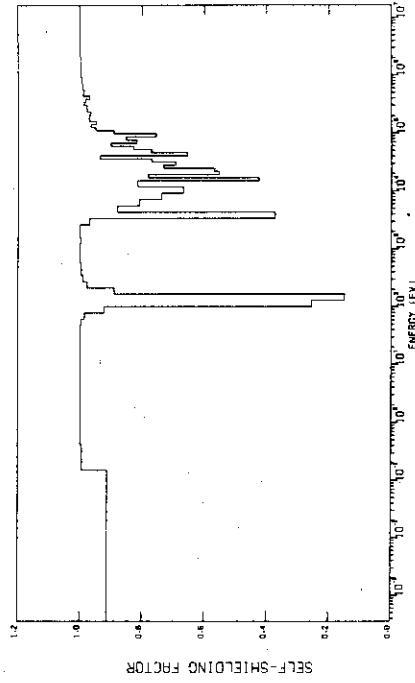
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

TOTAL

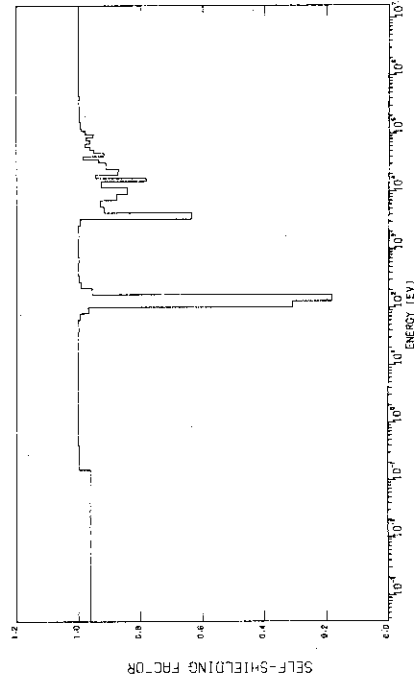
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

TOTAL

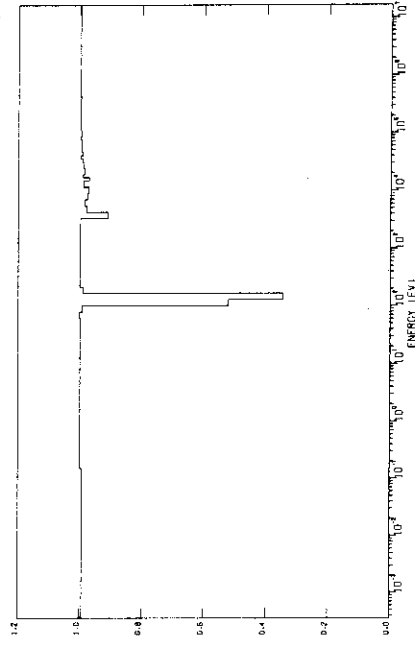
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

TOTAL

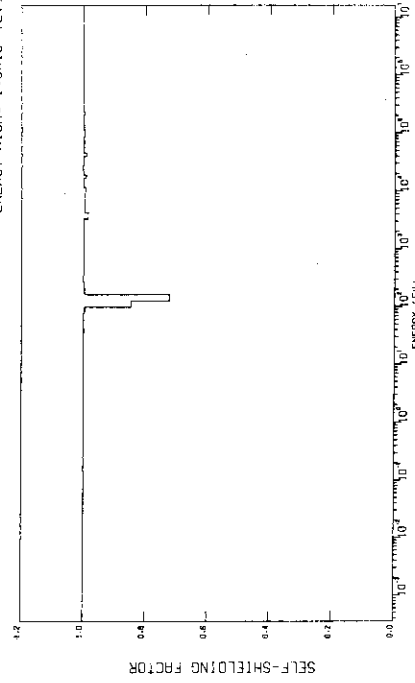
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

TOTAL

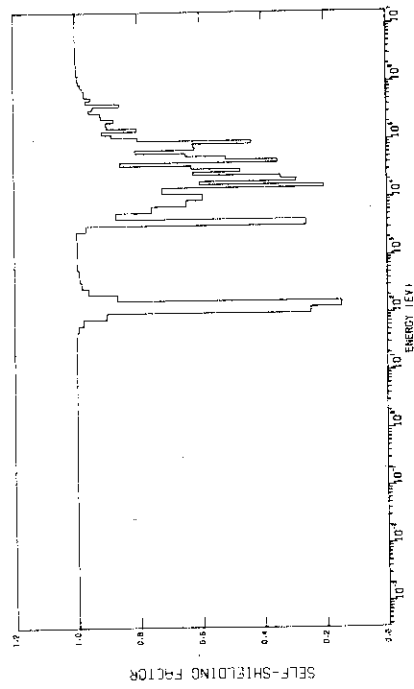
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

ELAS

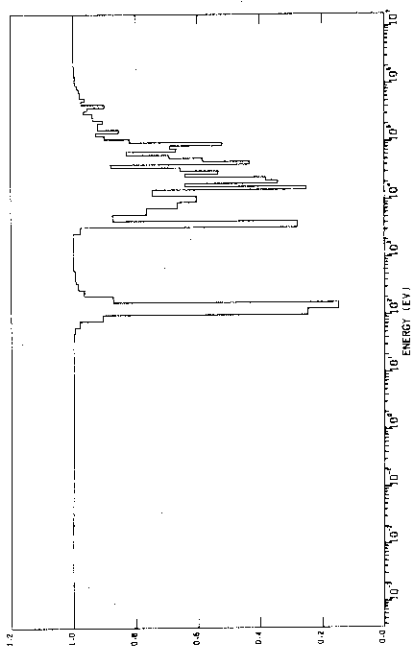
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

ELAS

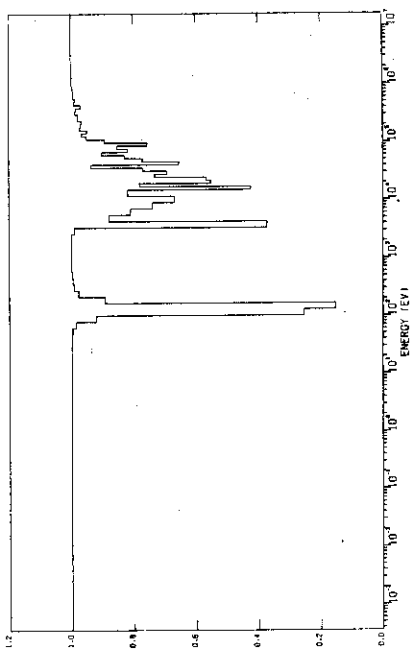
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

ELAS

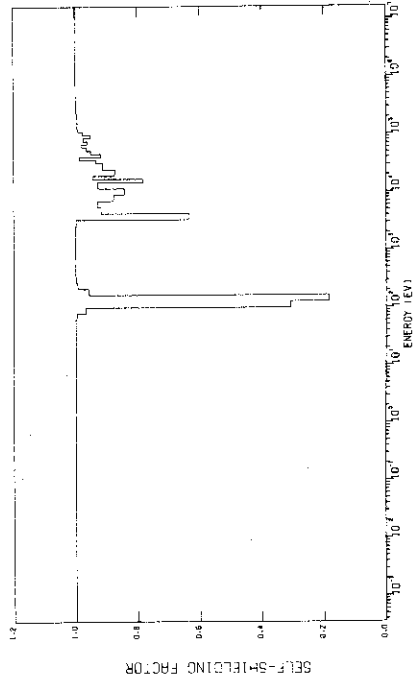
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

ELAS

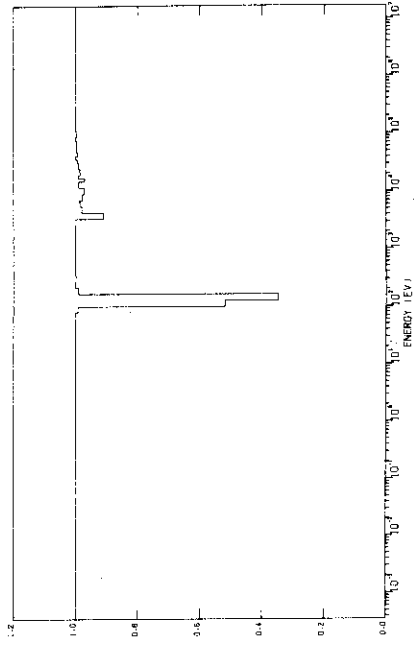
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

ELAS

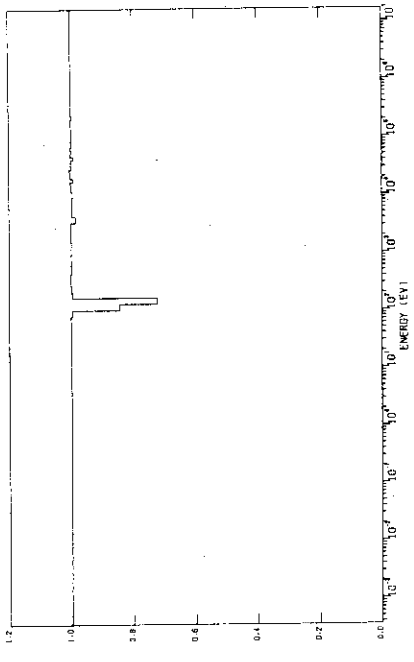
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1199 CO 59 FROM ENDF/B-IV ( 300K )

ELAS

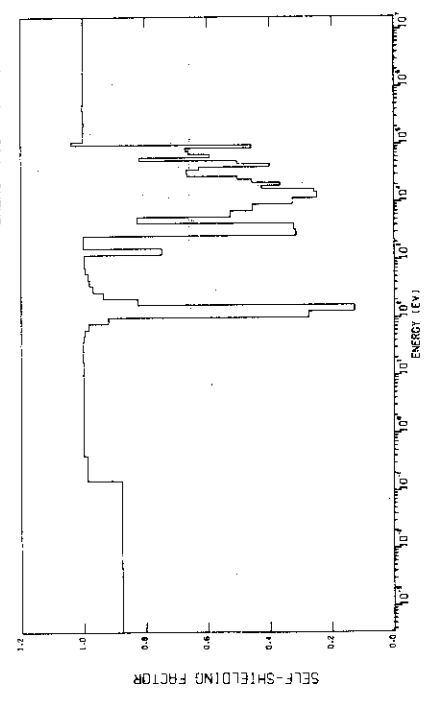
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

CAPTURE

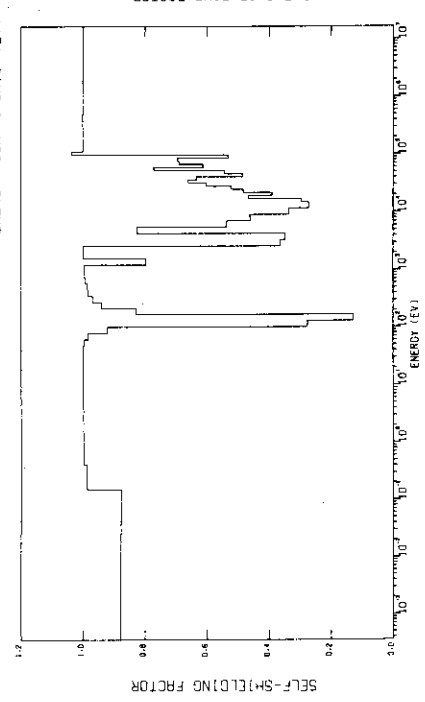
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

CAPTURE

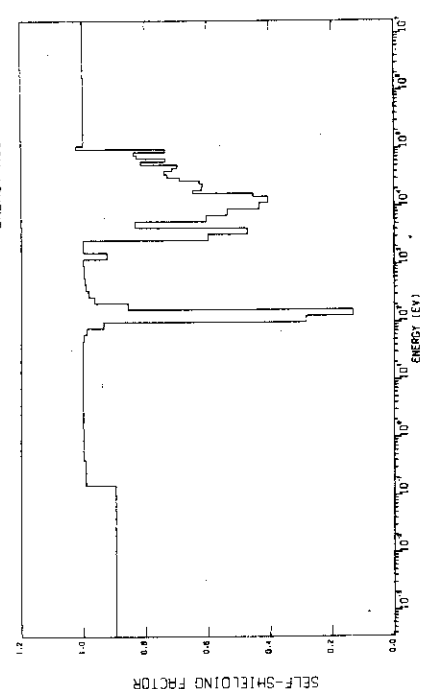
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

CAPTURE

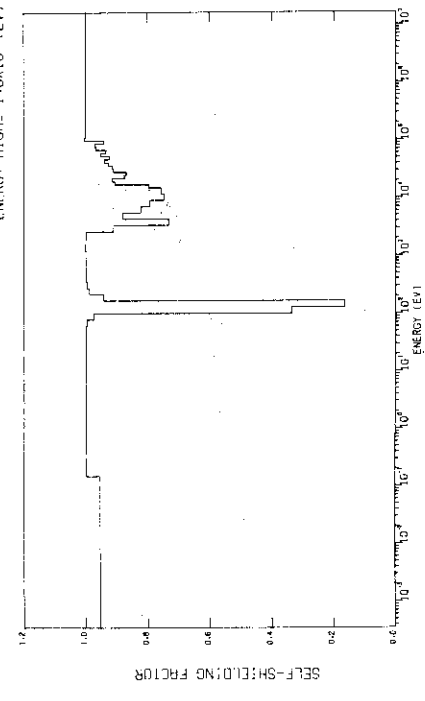
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

CAPTURE

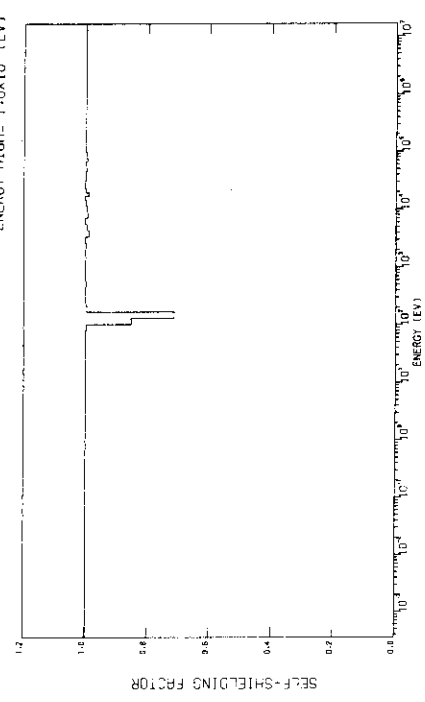
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

CAPTURE

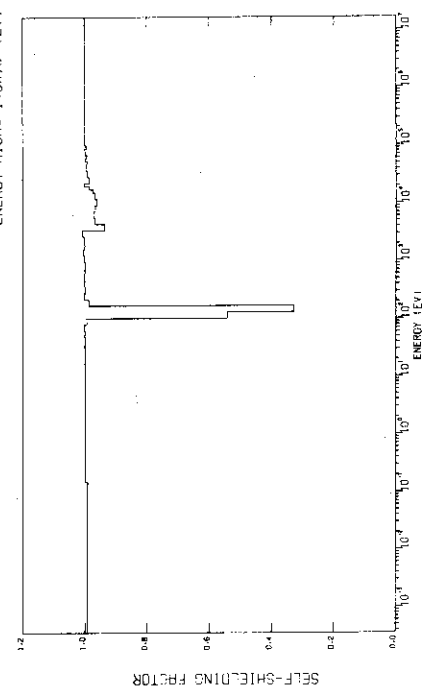
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1199 CO-59 FROM ENDF/B-IV ( 300K )

CAPTURE

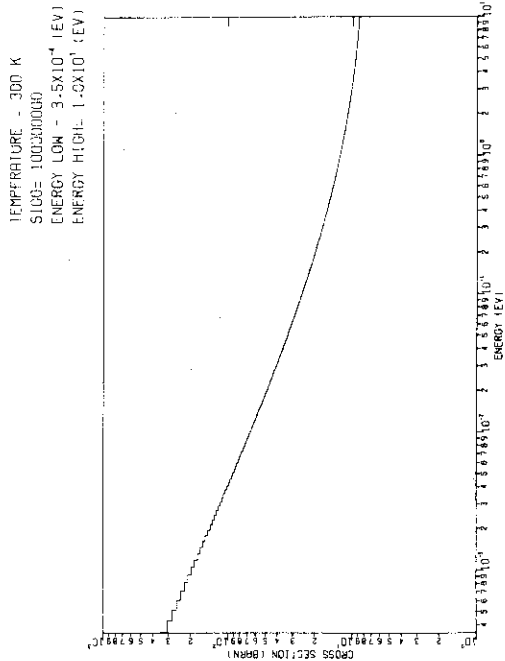
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)





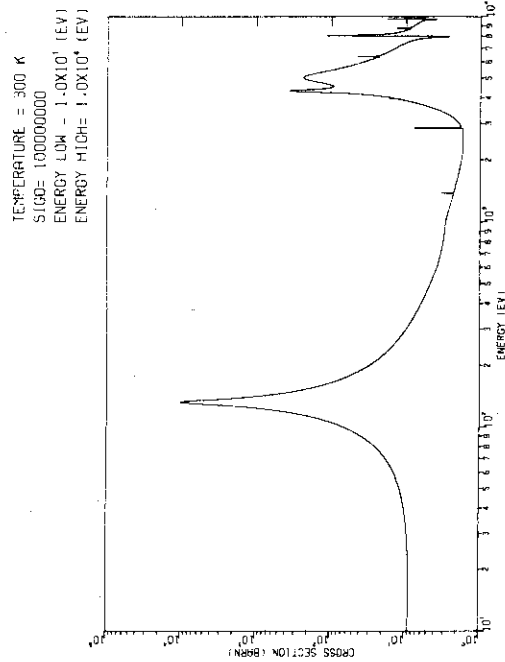
1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 1



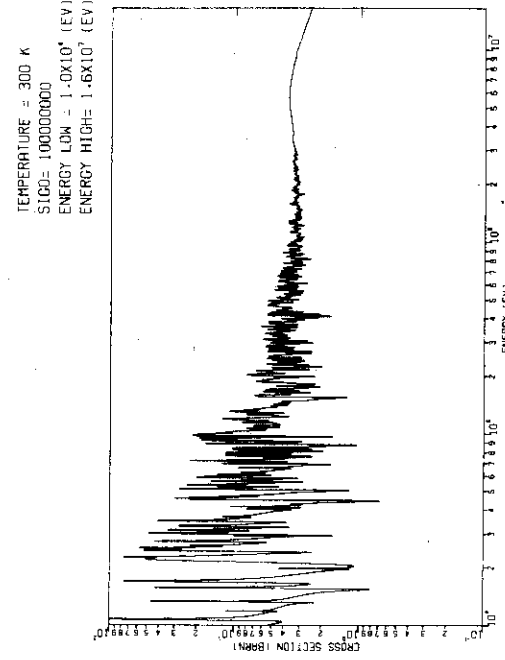
1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 1



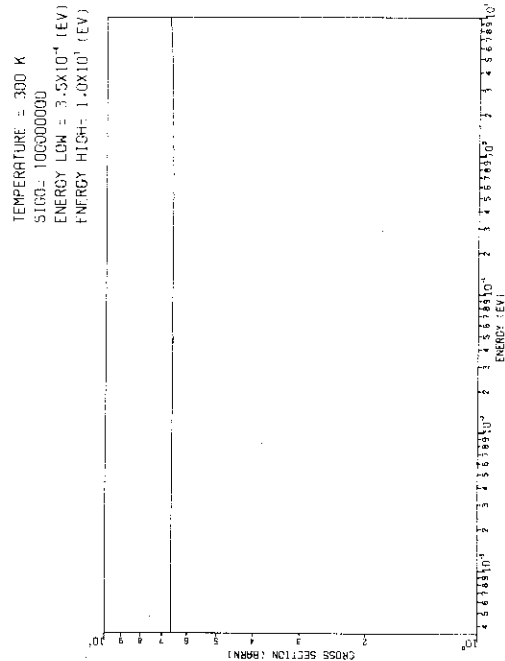
1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 1



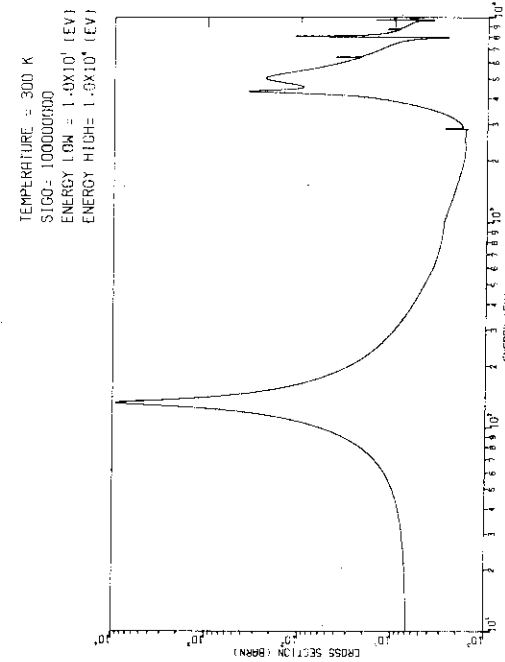
1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 2



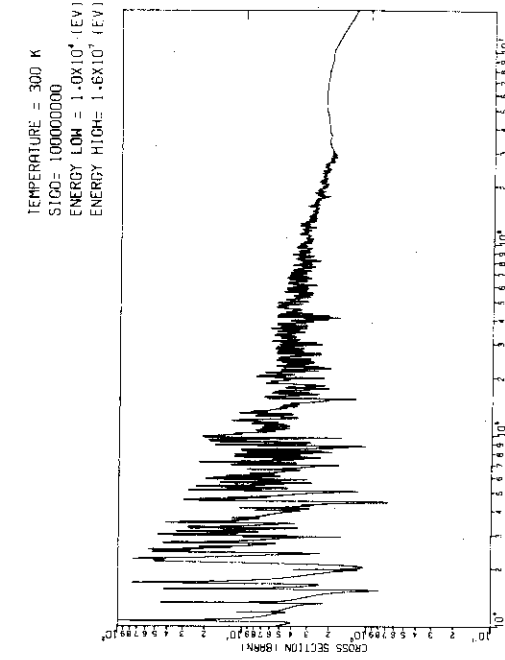
1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 2



1199 CO-59 FROM ENDF/B-IV

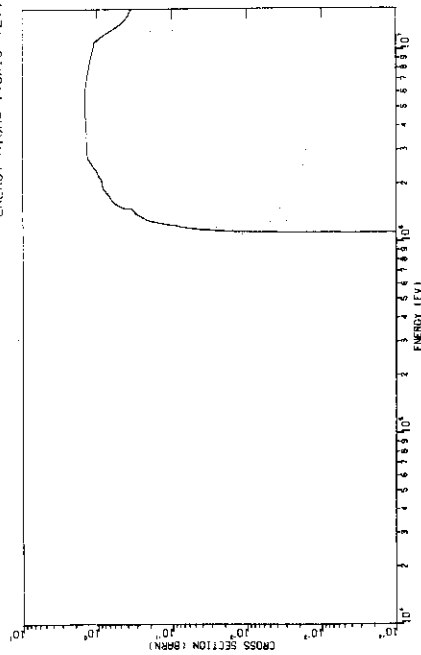
REACTION TYPE = 2



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 4

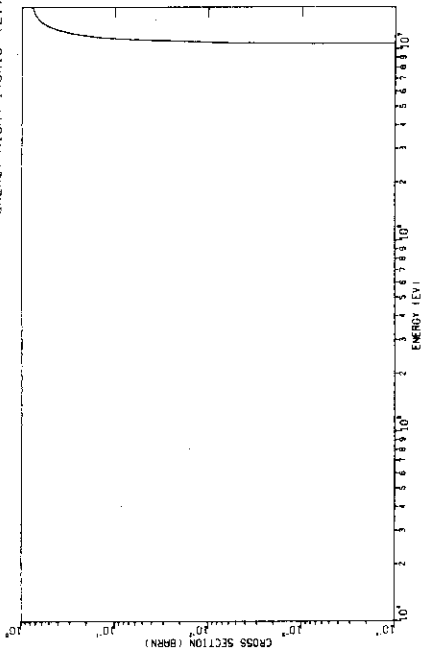
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 16

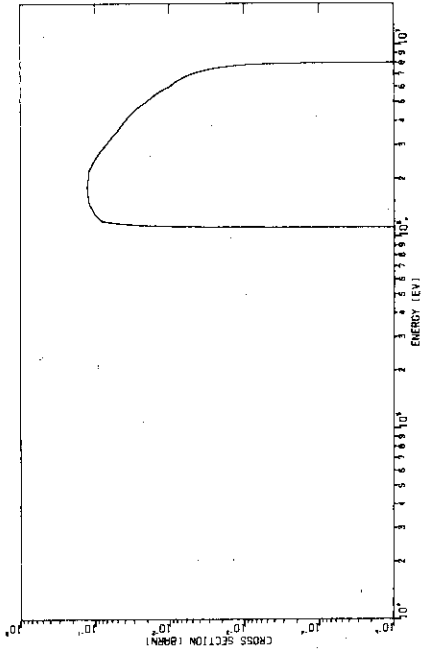
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 51

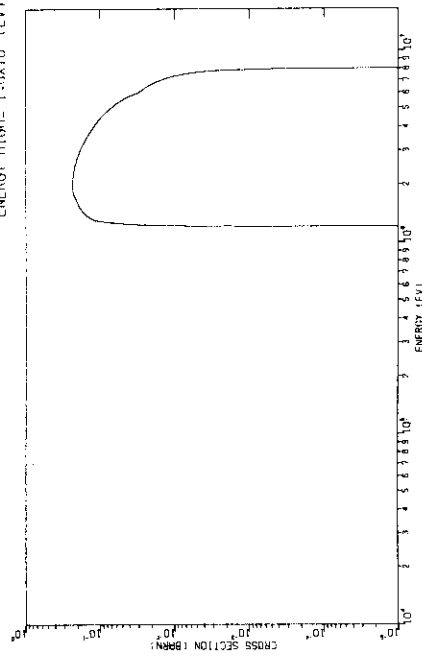
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 52

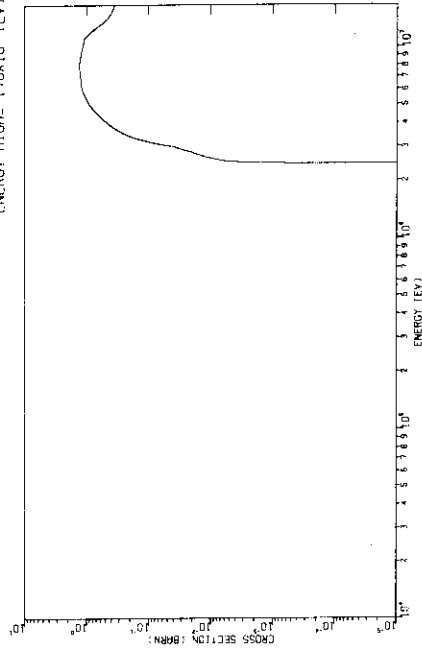
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 91

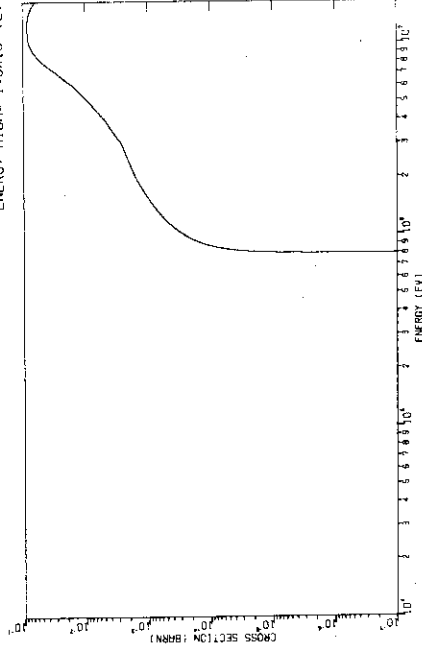
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 103

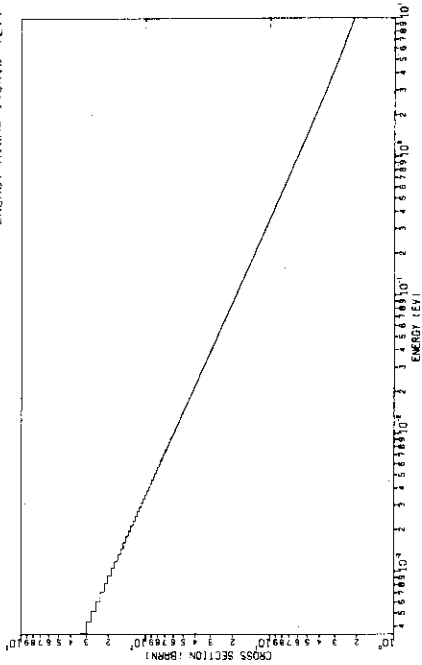
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 102

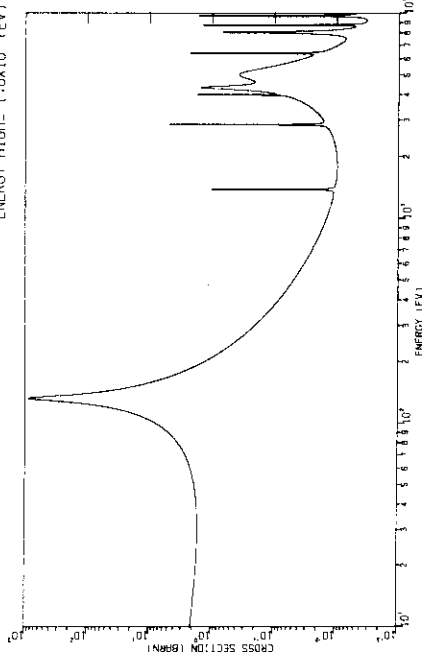
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 102

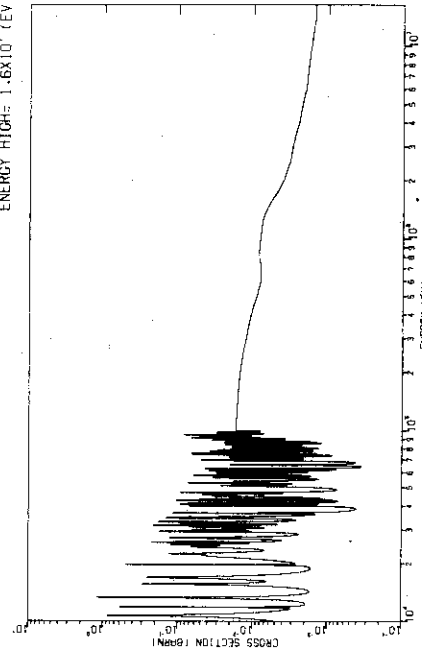
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 102

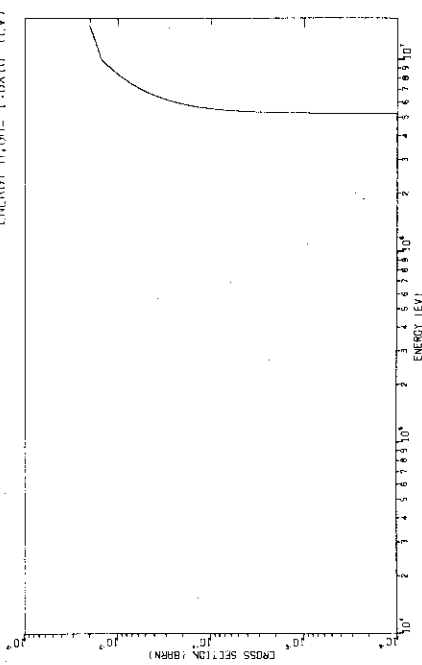
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 104

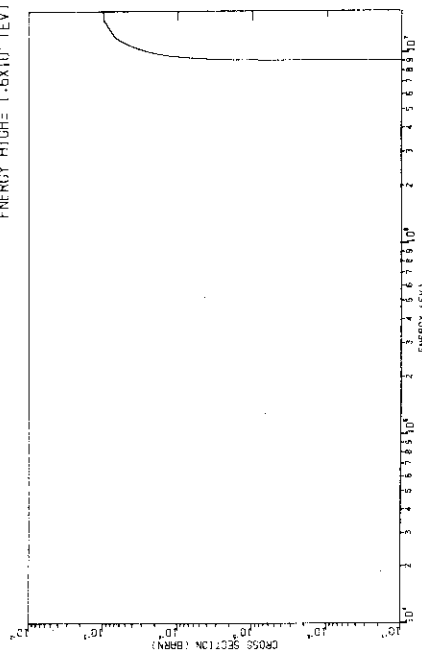
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 105

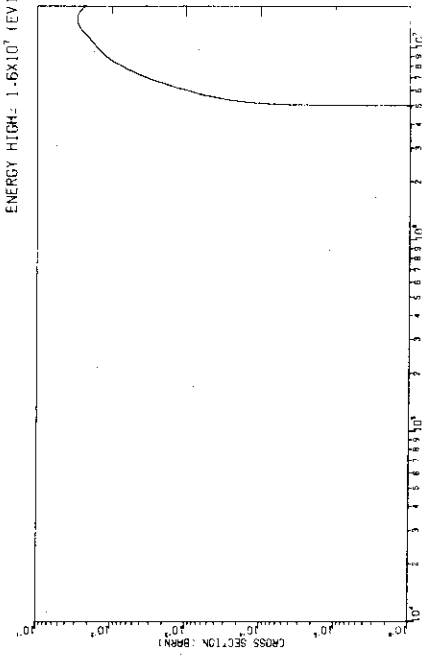
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1199 CO-59 FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



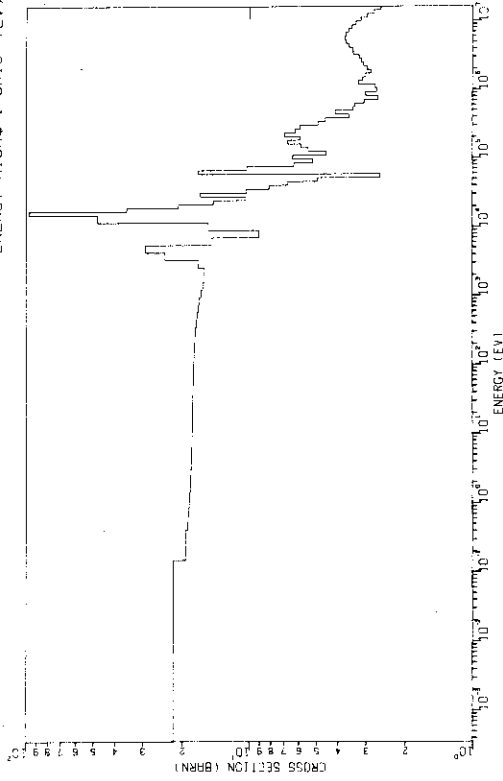
1190 NI FROM ENDF/B-IV ( 300K )

TOTAL

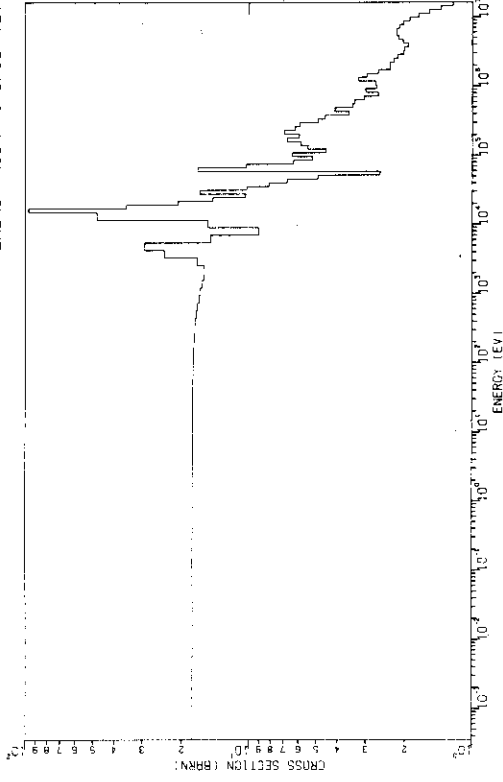
1190 NI FROM ENDF/B-IV ( 300K )

ELIENS

TEMPERATURE = 300  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



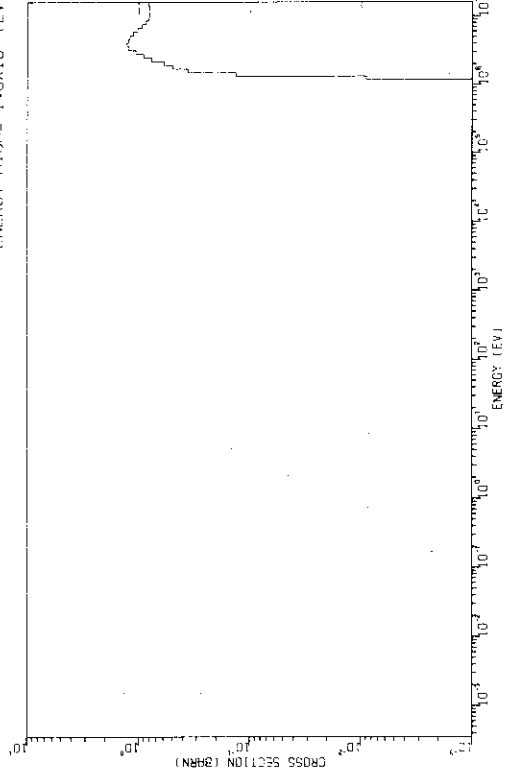
TEMPERATURE = 300  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1190 NI FROM ENDF/B-IV ( 300K )

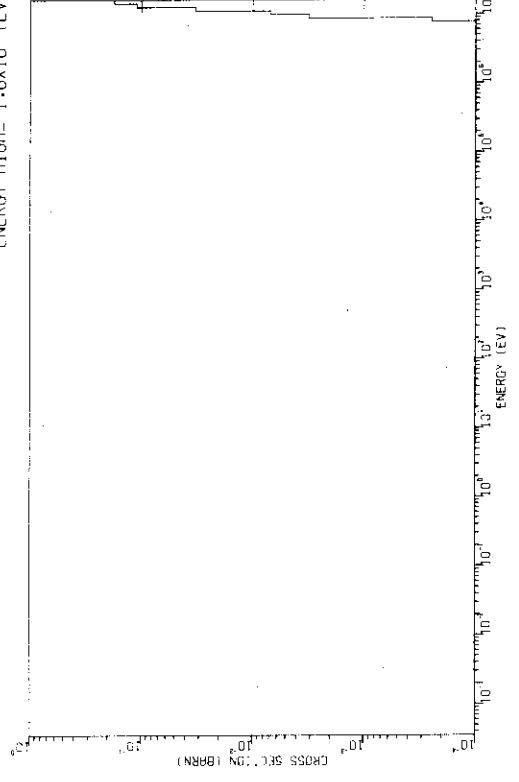
INELAS

TEMPERATURE = 300  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



(N,2N)

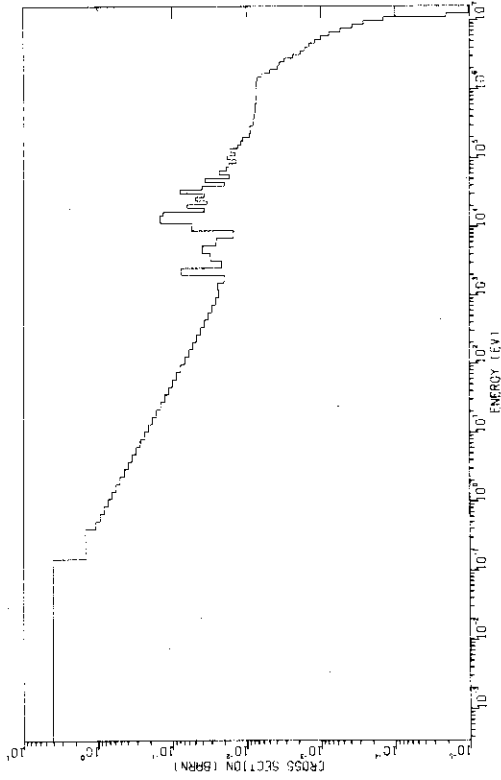
TEMPERATURE = 300  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

( N.C )

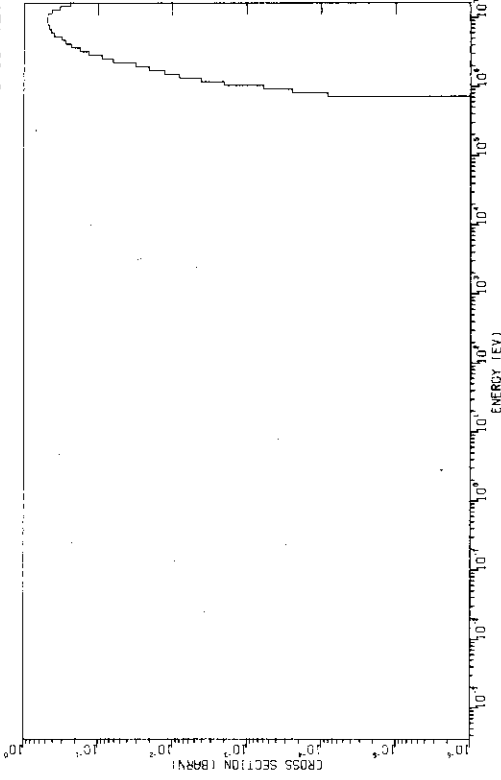
TEMPERATURE = 300  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

( N.P )

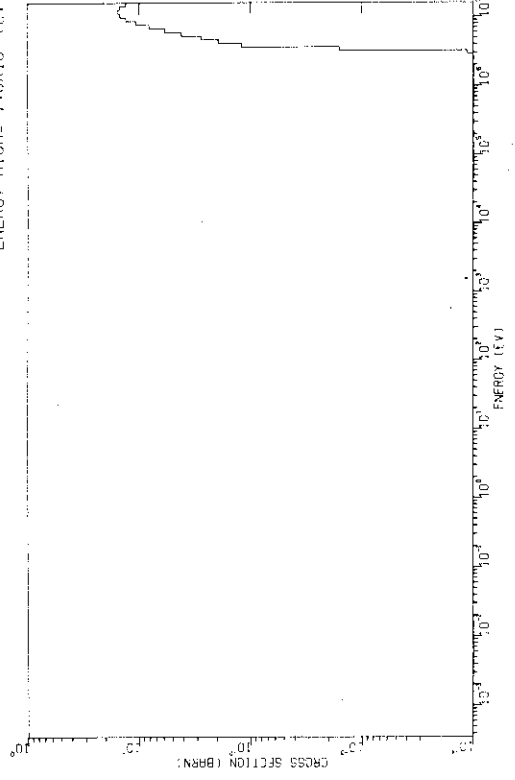
TEMPERATURE = 300  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

( N.A )

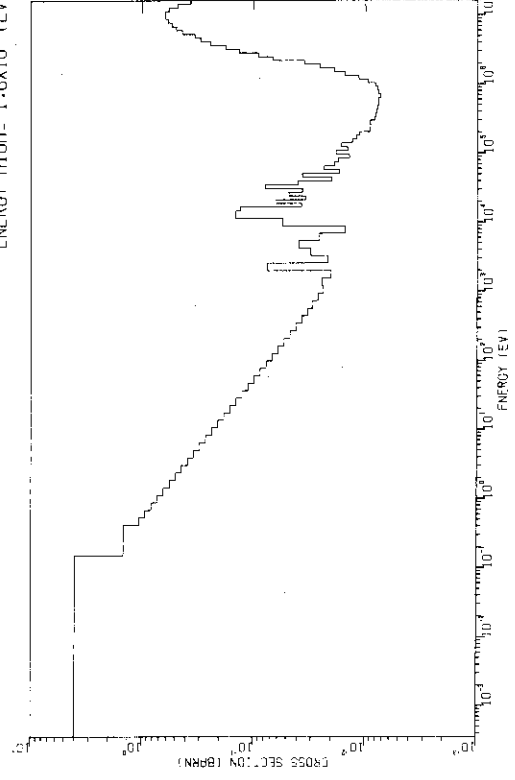
TEMPERATURE = 300  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

CAPTURE

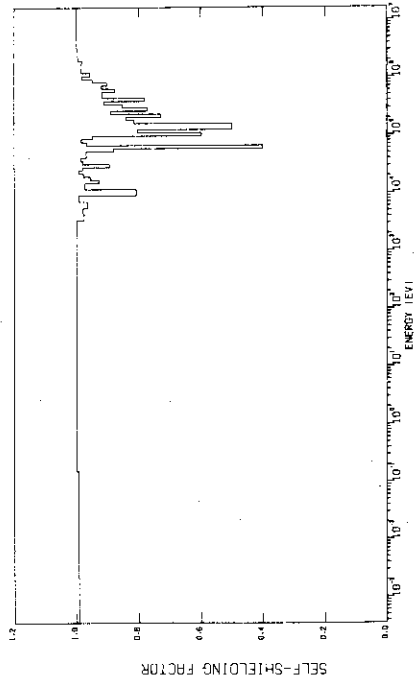
TEMPERATURE = 300  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

TOTAL

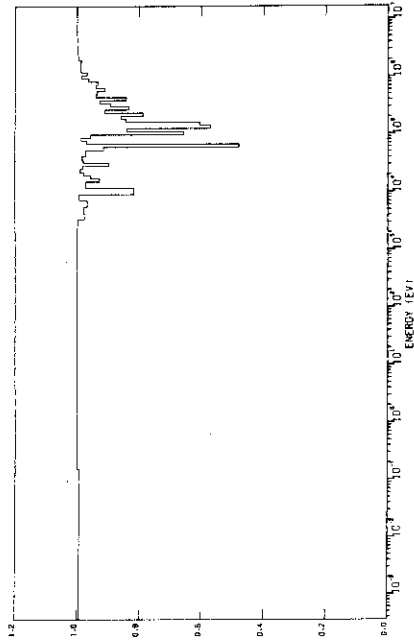
TEMPERATURE = 300  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

TOTAL

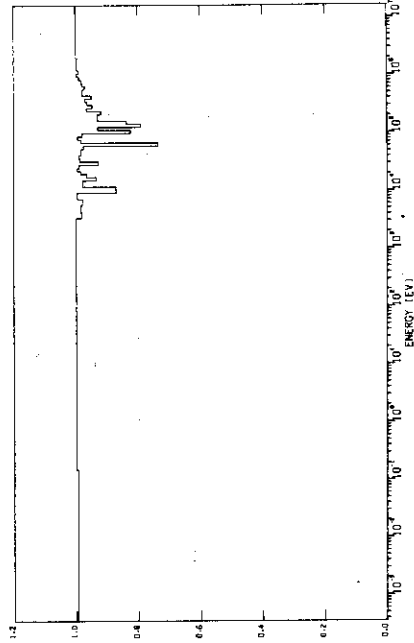
TEMPERATURE = 300  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

TOTAL

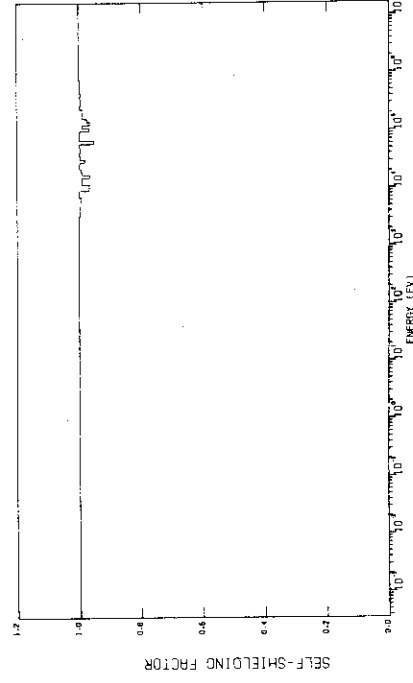
TEMPERATURE = 300  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

TOTAL

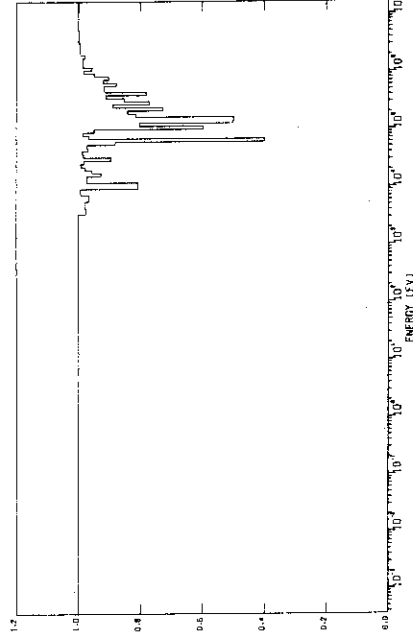
TEMPERATURE = 300  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

ELAS

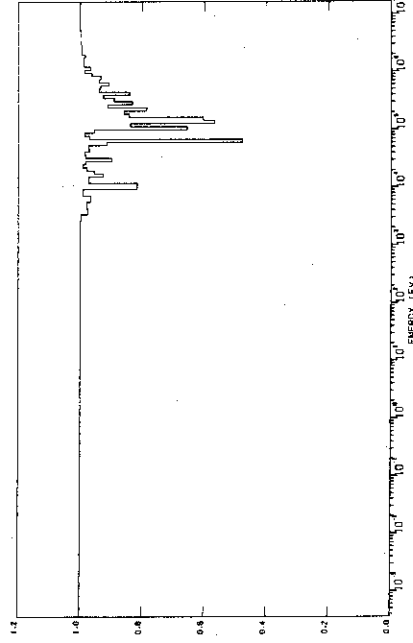
TEMPERATURE = 300  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

ELAS

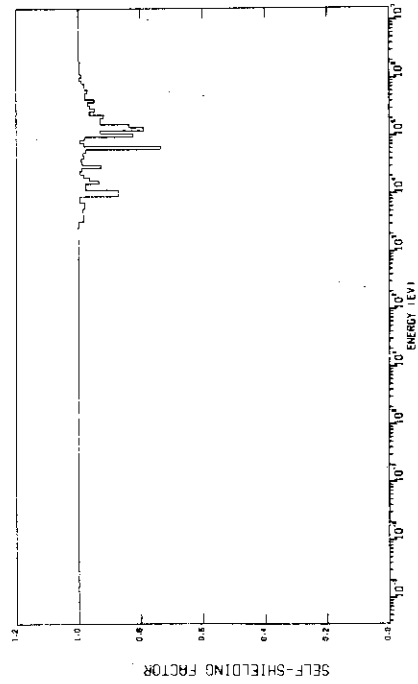
TEMPERATURE = 300  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

ELAS

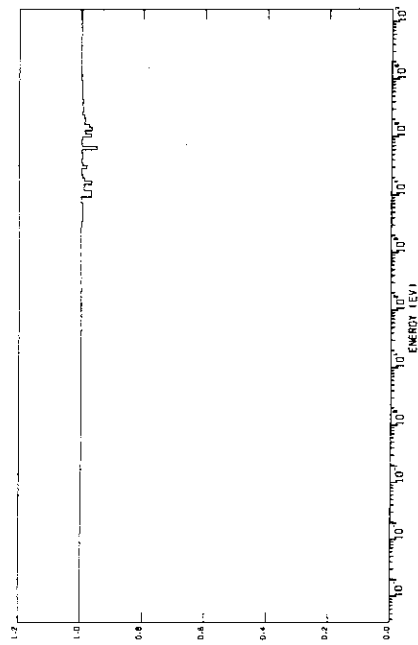
TEMPERATURE = 300  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

ELRS

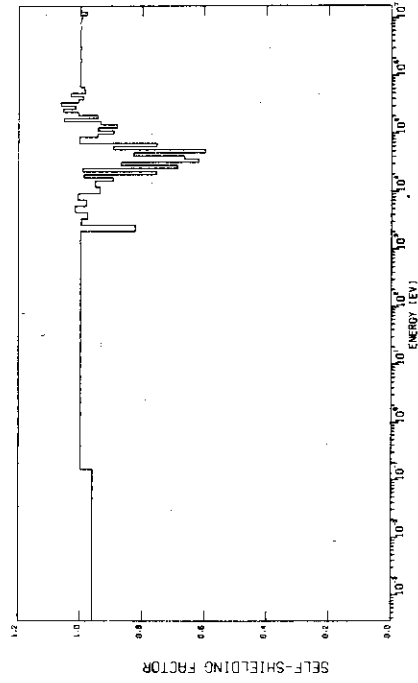
TEMPERATURE = 300  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

CAPTURE

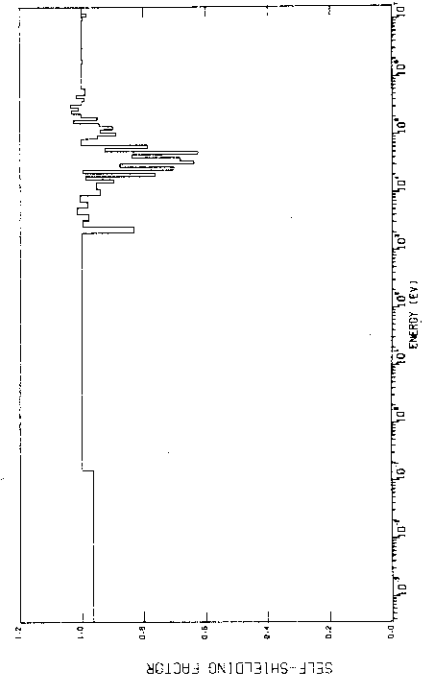
TEMPERATURE = 300  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

CAPTURE

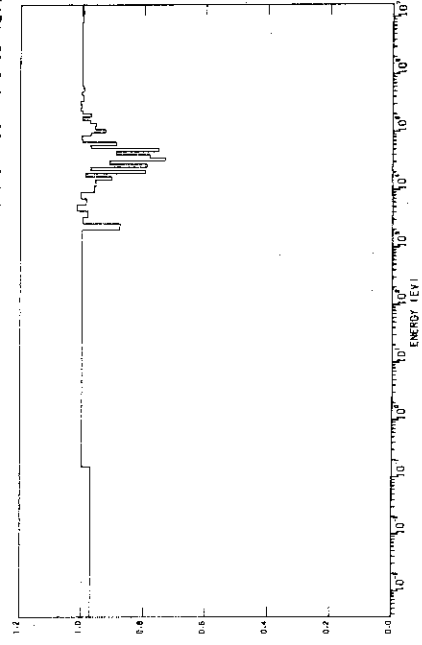
TEMPERATURE = 300  
SIG0 = 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

CAPTURE

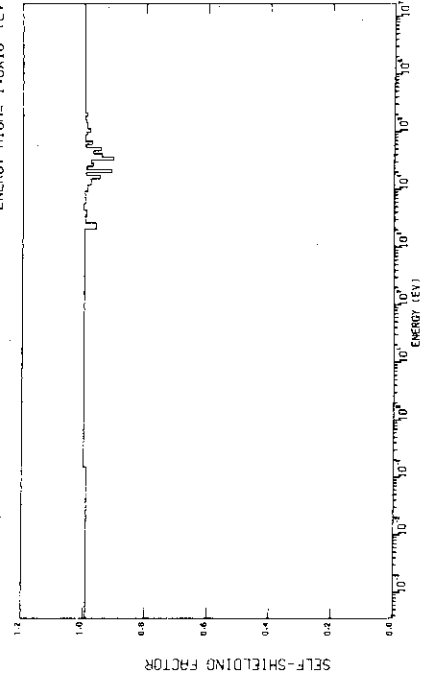
TEMPERATURE = 300  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1190 Ni FROM ENDF/B-IV ( 300K )

CAPTURE

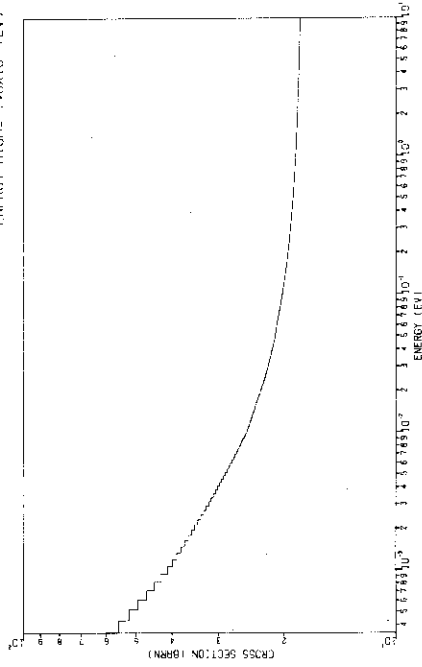
TEMPERATURE = 300  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1190 NI FROM ENDF/B-IV

REACTION TYPE = 1

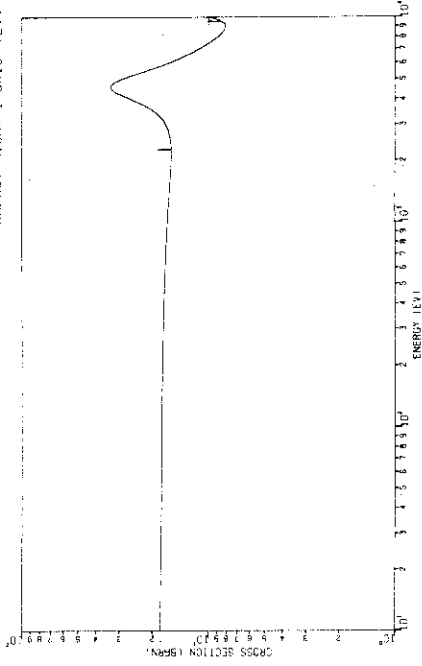
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1190 NI FROM ENDF/B-IV

REACTION TYPE = 1

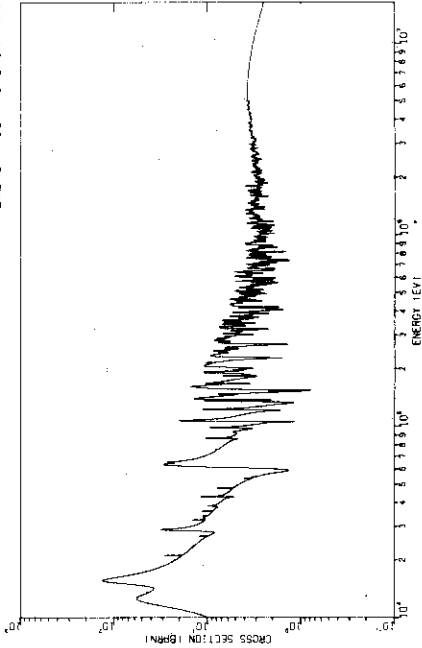
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1190 NI FROM ENDF/B-IV

REACTION TYPE = 1

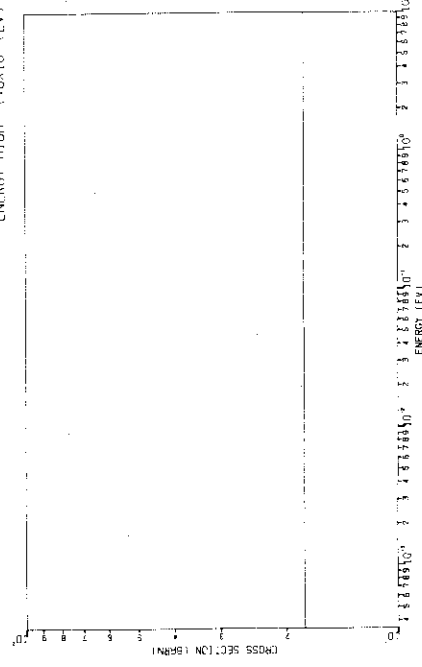
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1190 NI FROM ENDF/B-IV

REACTION TYPE = 2

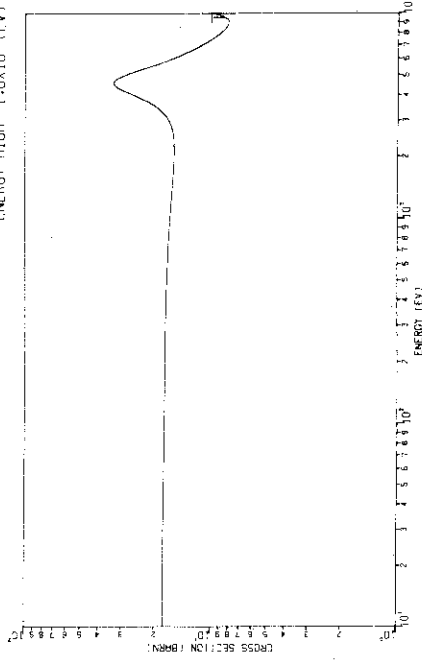
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1190 NI FROM ENDF/B-IV

REACTION TYPE = 2

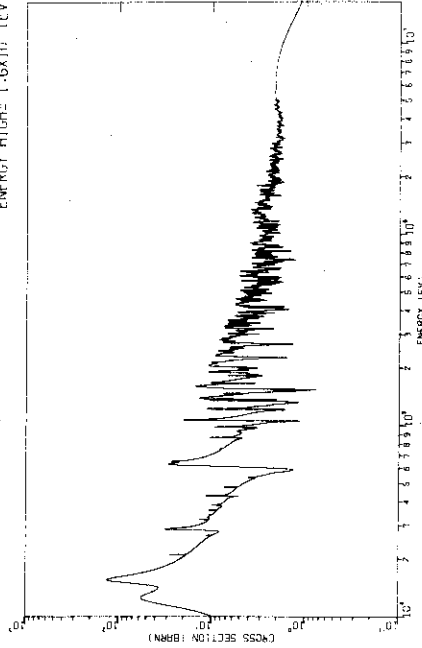
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1190 NI FROM ENDF/B-IV

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

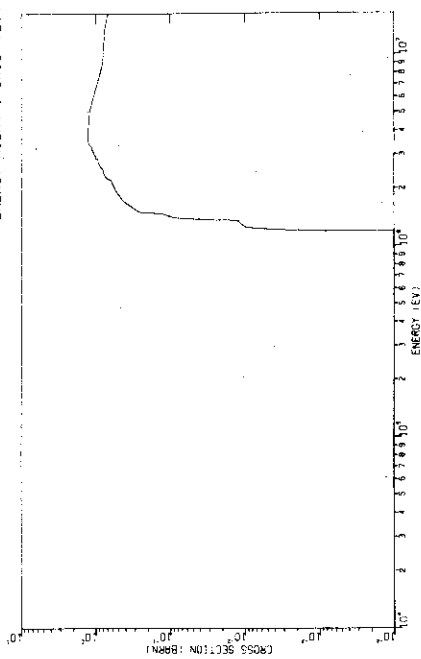




1190 Ni FROM ENDF/B-IV

REACTION TYPE = 4

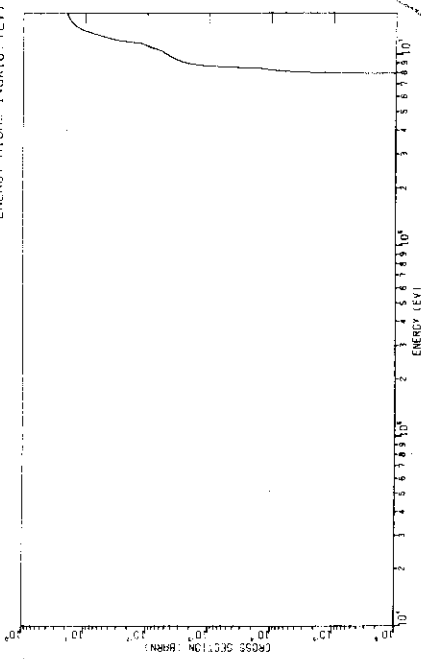
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.5X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 15

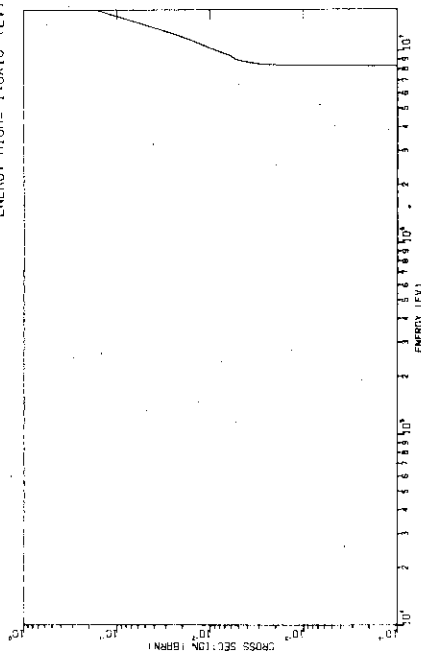
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.5X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 28

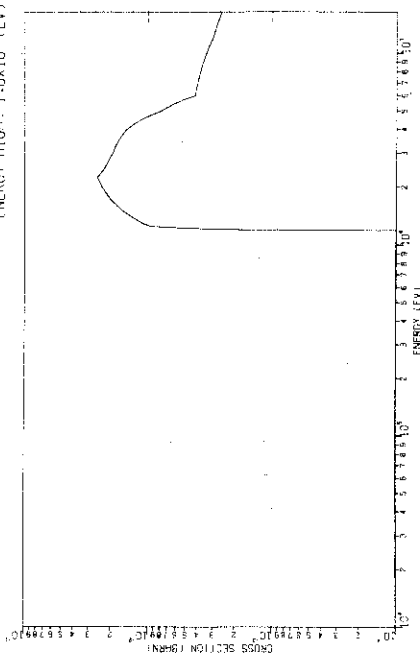
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.5X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 51

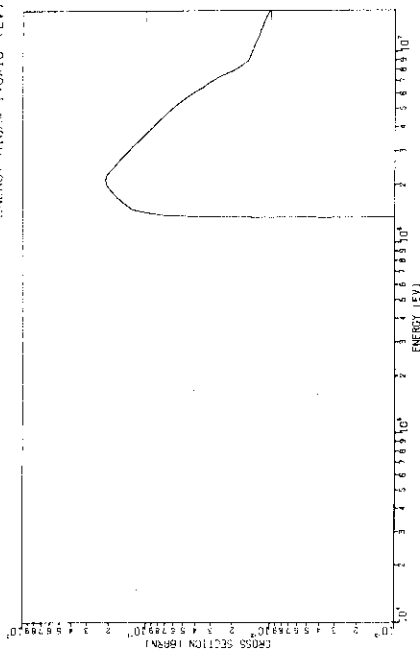
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.5X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 52

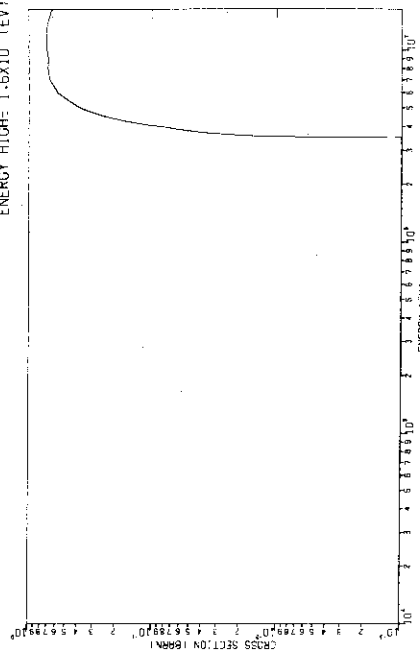
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.5X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 91

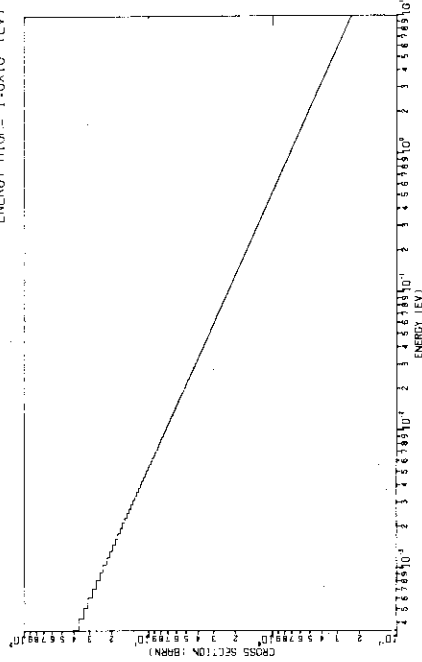
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.5X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 102

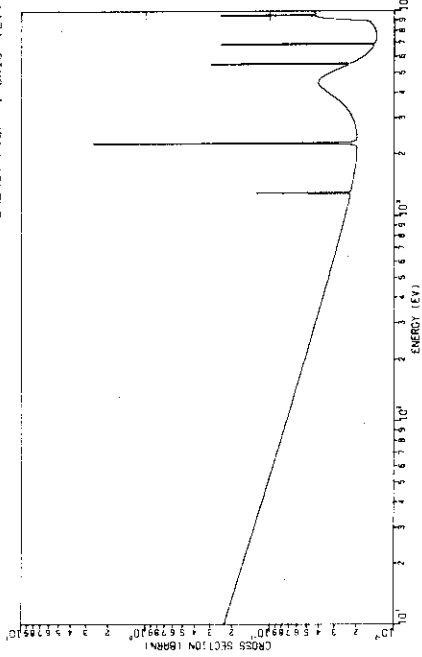
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-8</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 102

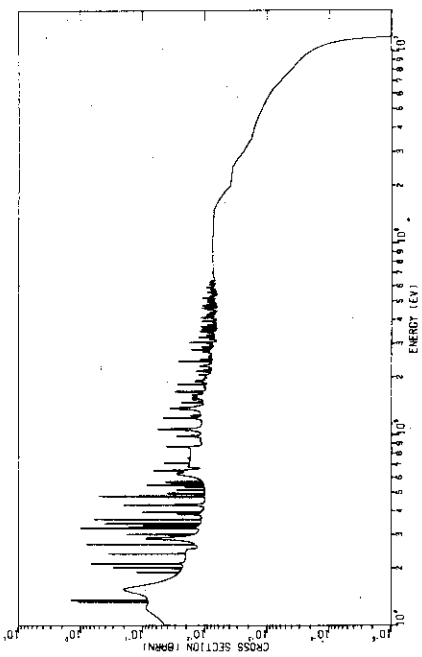
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 102

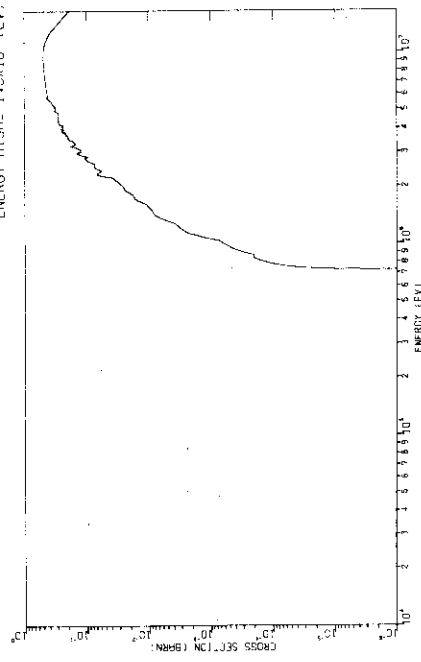
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 103

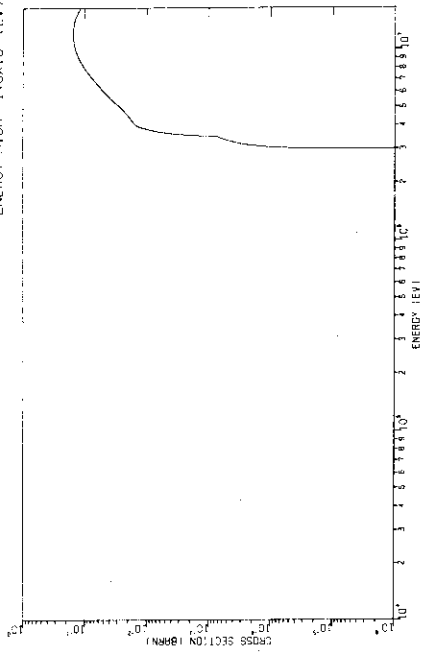
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1190 Ni FROM ENDF/B-IV

REACTION TYPE = 107

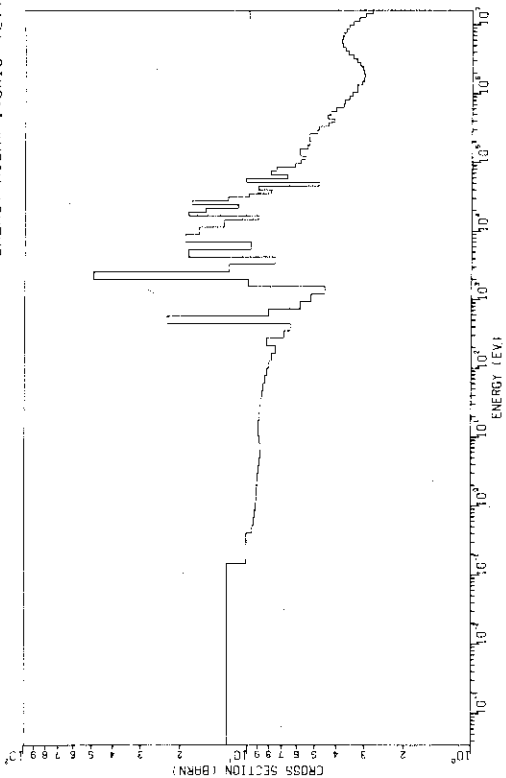
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

TOTAL

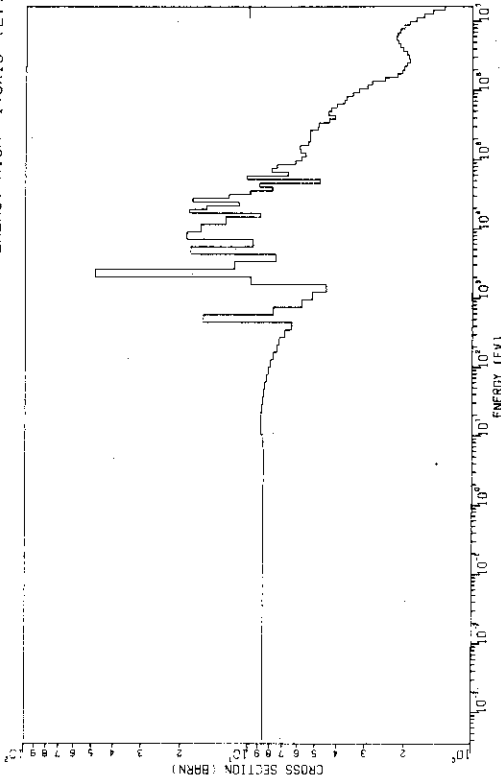
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

ELAS

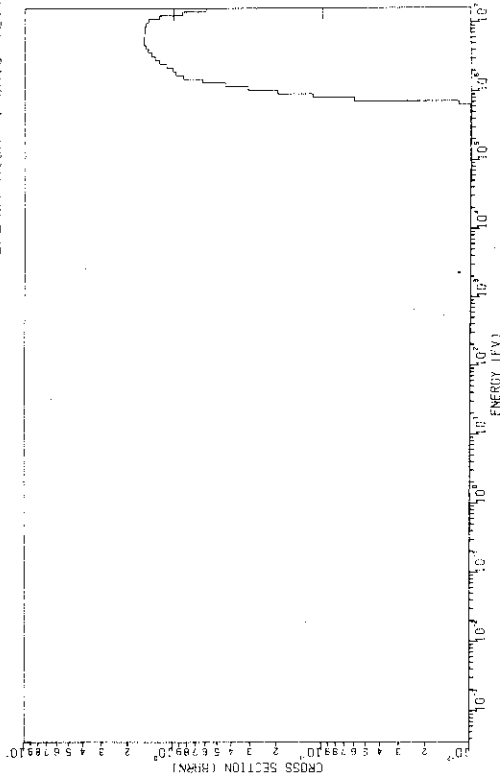
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

INELAS

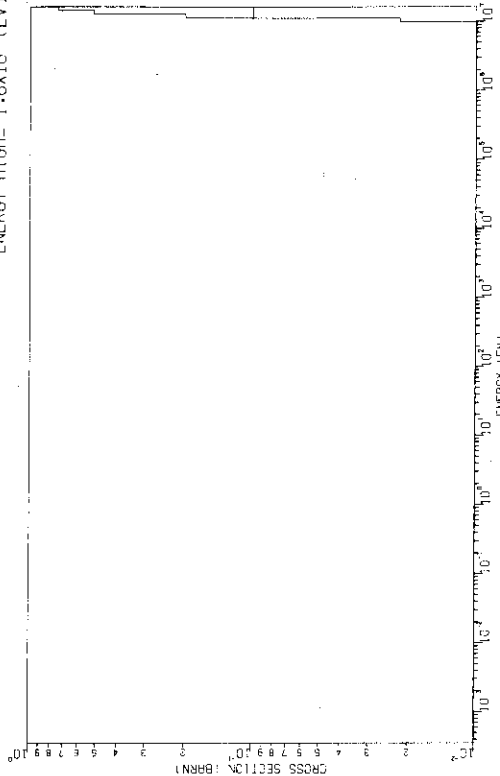
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

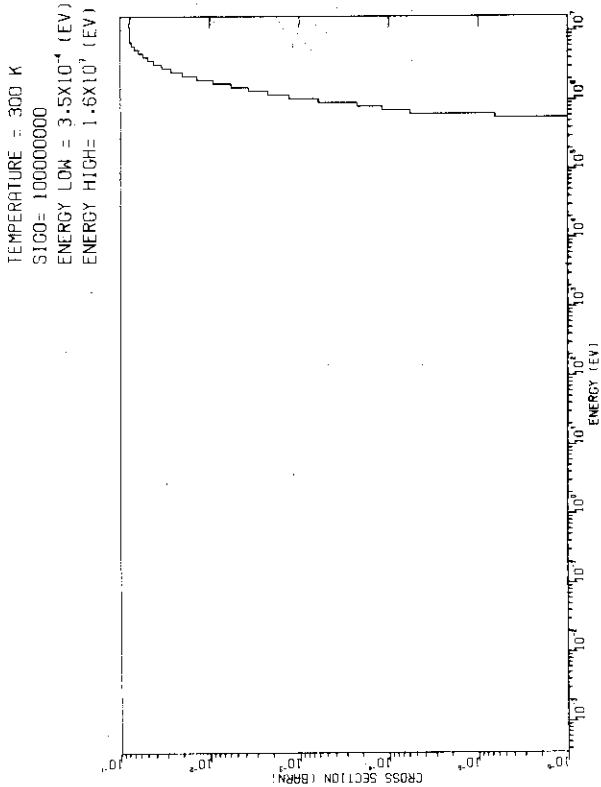
(N,2N)

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



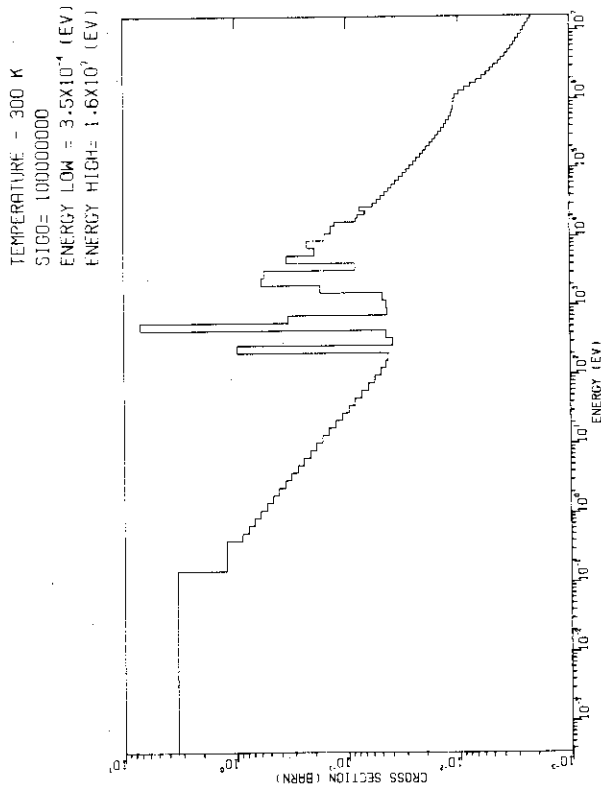
(N.P.)

1295 CU FROM ENDF/B-IV ( 300K )



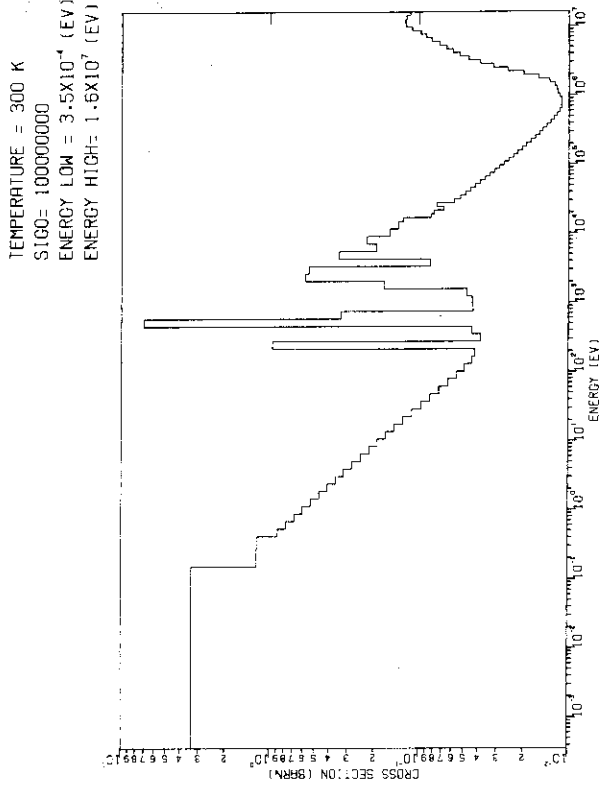
(N.G.)

1295 CU FROM ENDF/B-IV ( 300K )



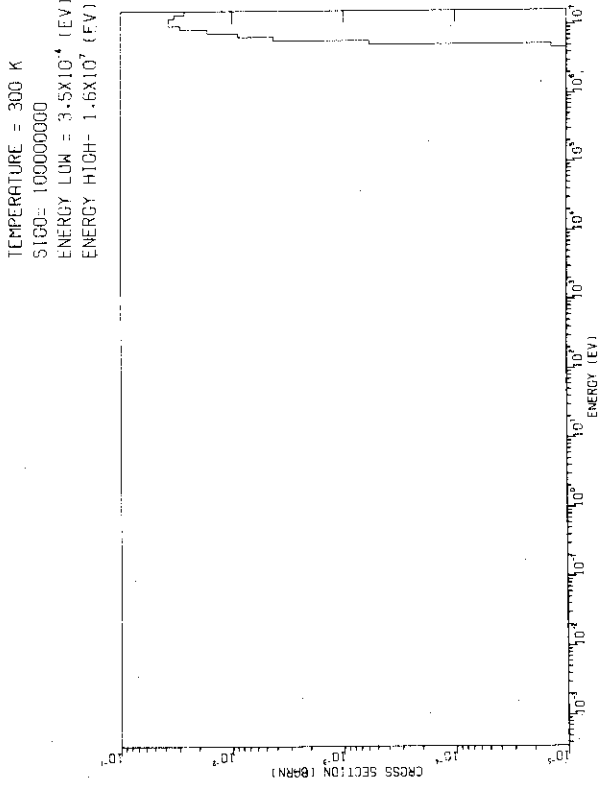
CAPTURE

1295 CU FROM ENDF/B-IV ( 300K )



(N.H.)

1295 CU FROM ENDF/B-IV ( 300K )



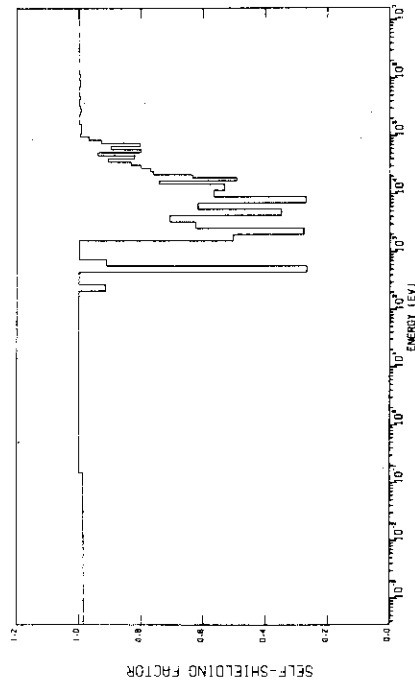
**29 Cu**  
**1295**

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1295 CU FROM ENDF/B-IV ( 300K )

TOTAL

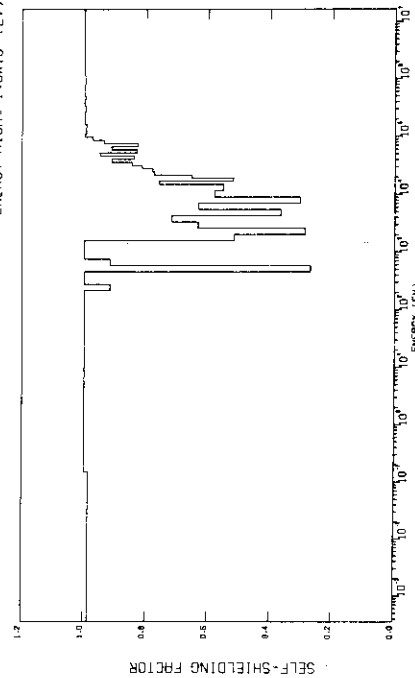
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

TOTAL

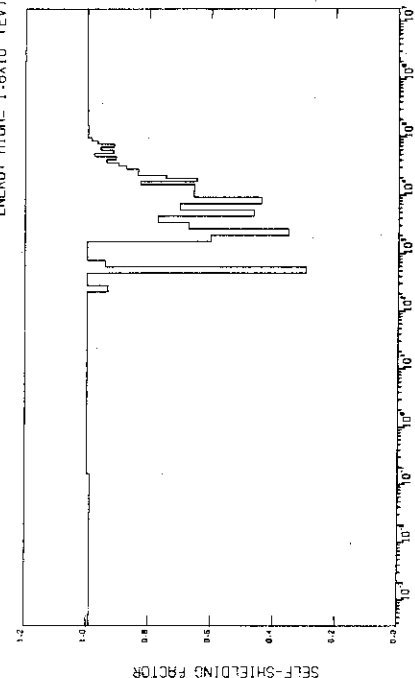
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

TOTAL

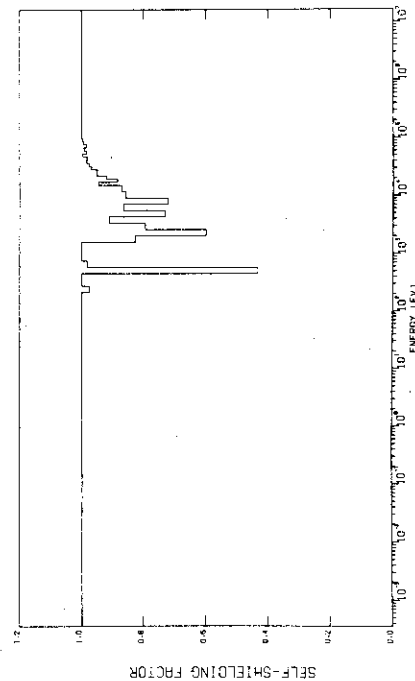
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

TOTAL

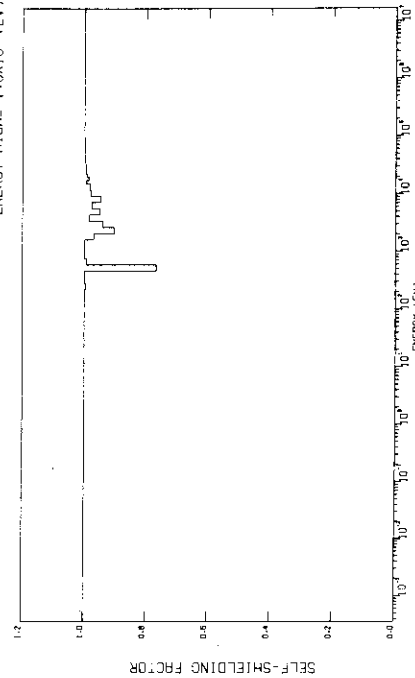
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

TOTAL

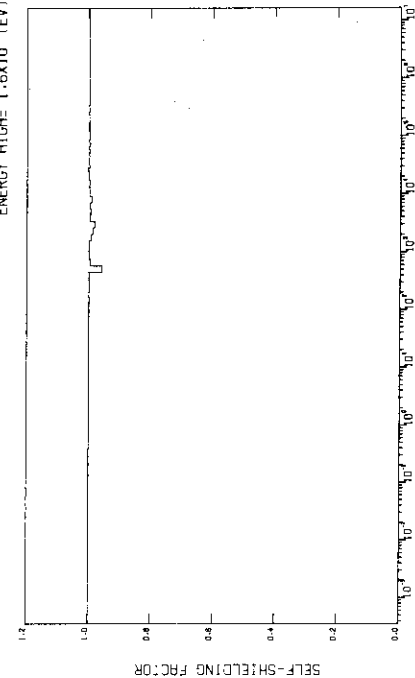
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

TOTAL

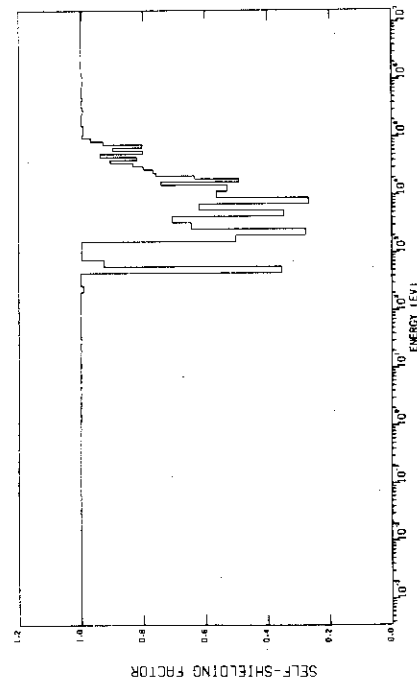
TEMPERATURE = 300 K  
SIG0= 100000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

ELAS

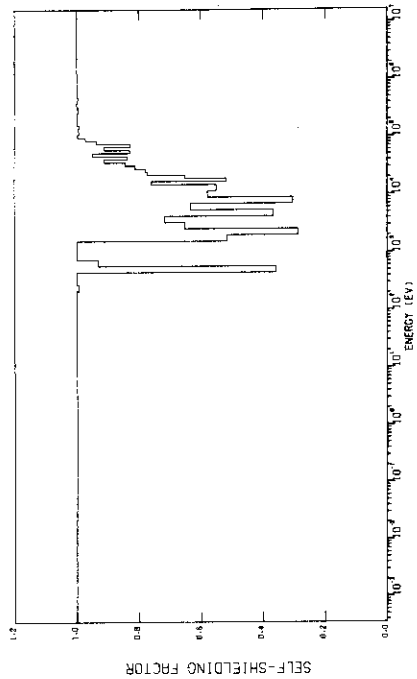
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>-7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

ELAS

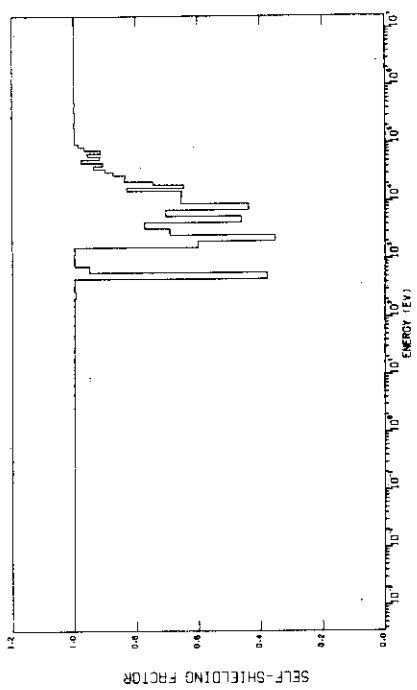
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>-7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

ELAS

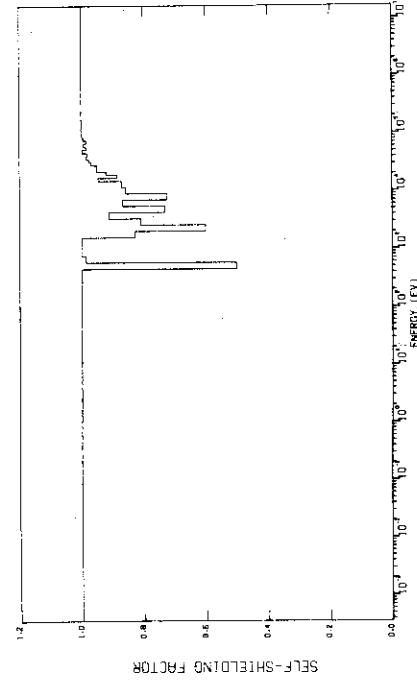
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>-7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

ELAS

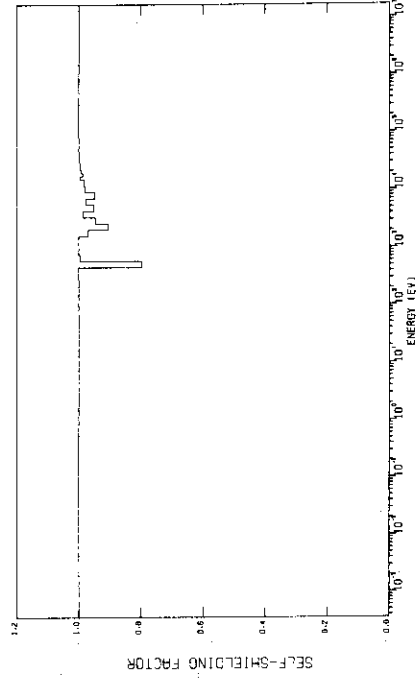
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>-7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

ELAS

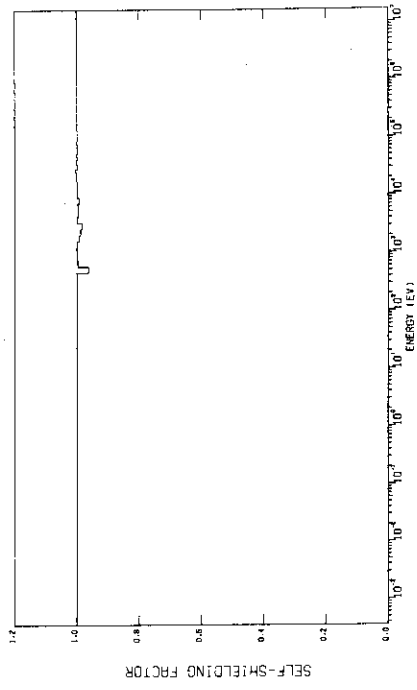
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>-7</sup> (EV)



1295 CU FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>-7</sup> (EV)

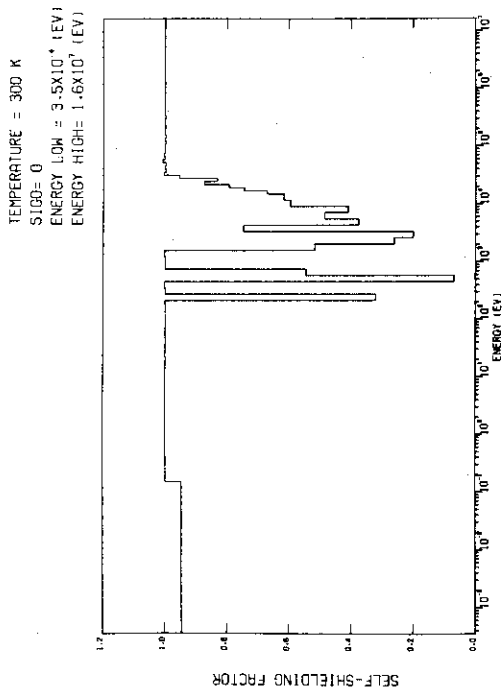


**29 Cu**  
**1295**

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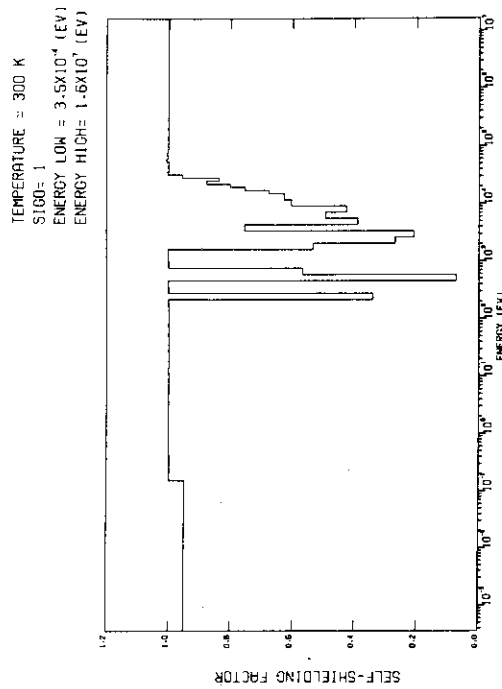
1295 CU FROM ENDF/B-IV ( 300K )

CAPTURE



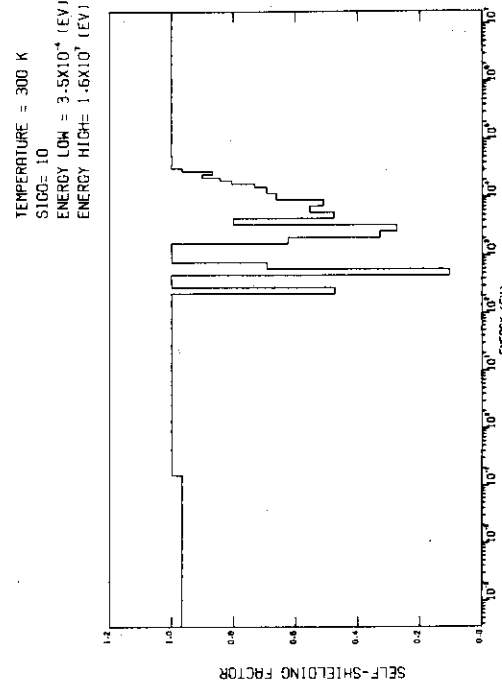
1295 CU FROM ENDF/B-IV ( 300K )

CAPTURE



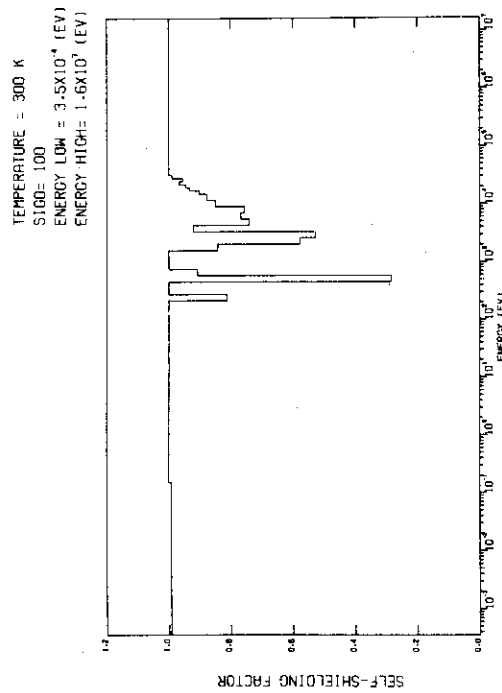
1295 CU FROM ENDF/B-IV ( 300K )

CAPTURE



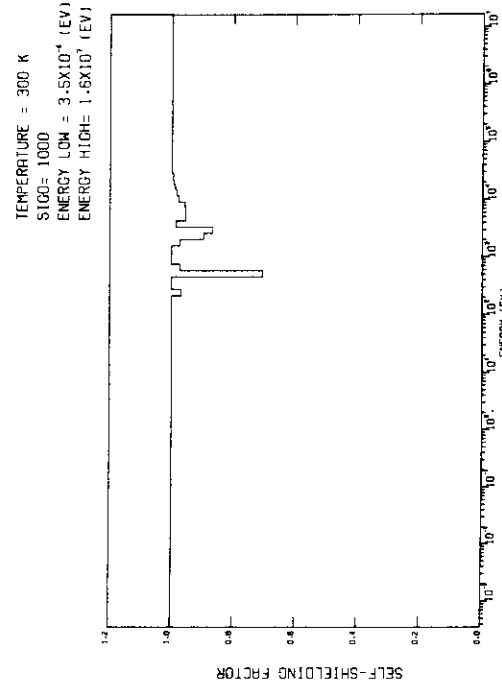
1295 CU FROM ENDF/B-IV ( 300K )

CAPTURE



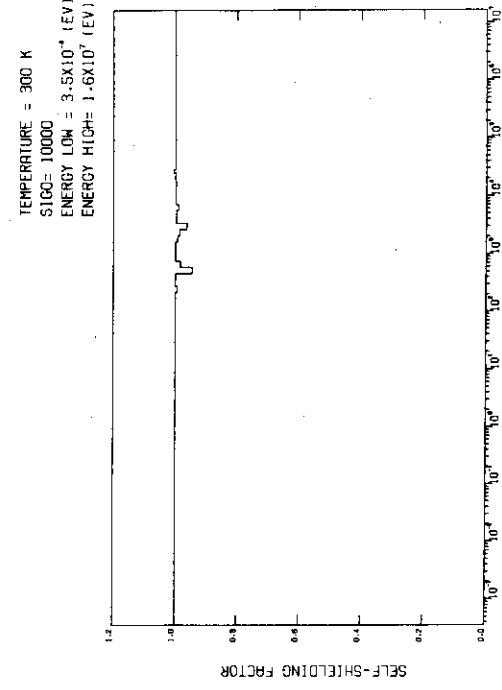
1295 CU FROM ENDF/B-IV ( 300K )

CAPTURE



1295 CU FROM ENDF/B-IV ( 300K )

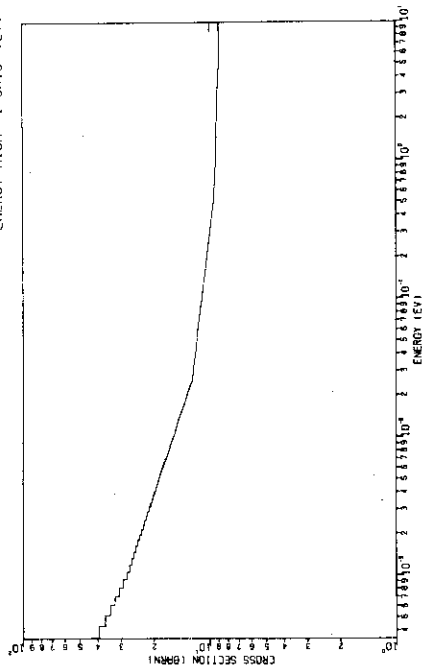
CAPTURE



1295 CU FROM ENDF/B-IV

REACTION TYPE = 1

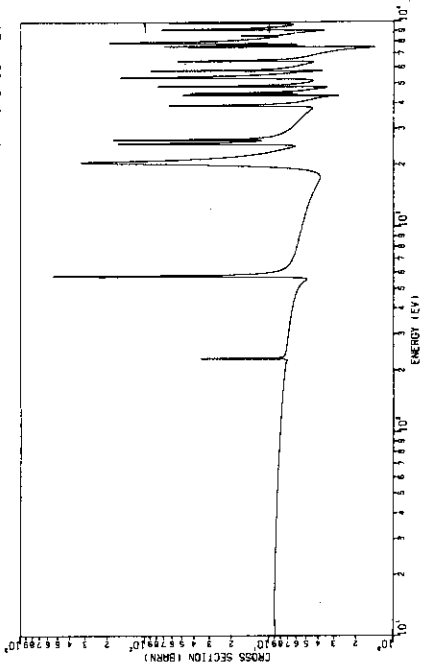
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 1

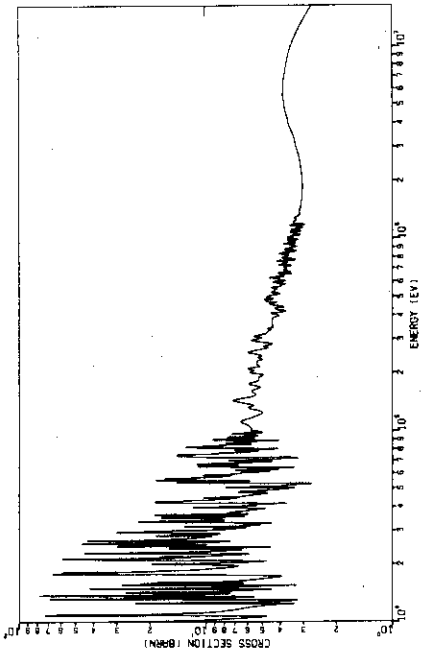
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 1

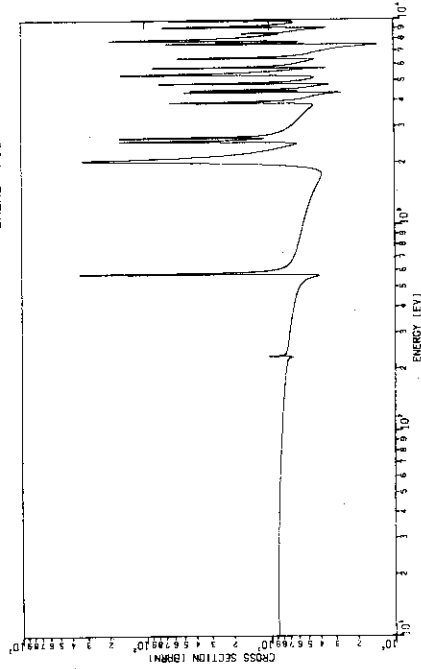
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 2

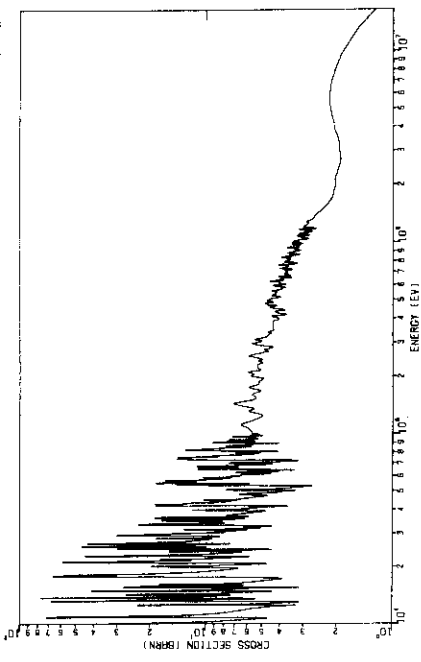
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 2

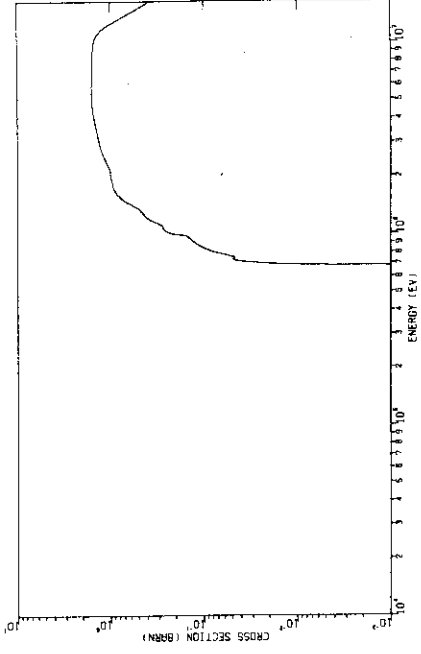
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 4

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

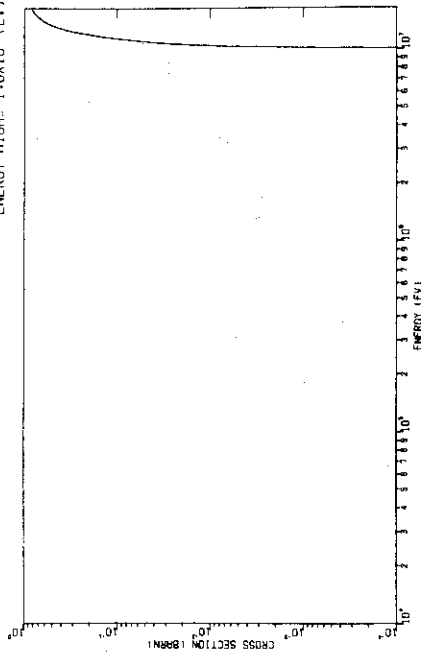




1295 CU FROM ENDF/B-IV

REACTION TYPE = 16

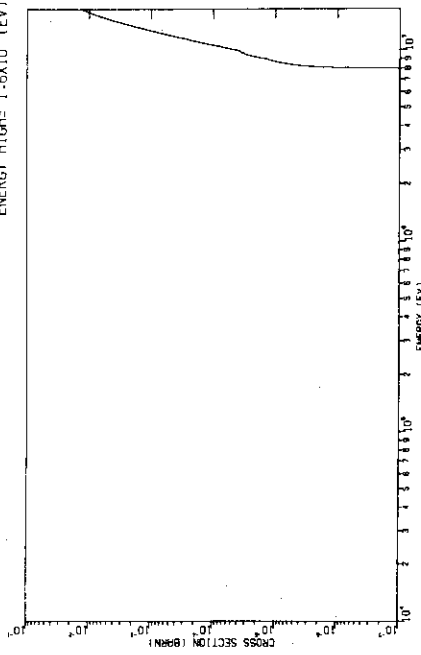
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 22

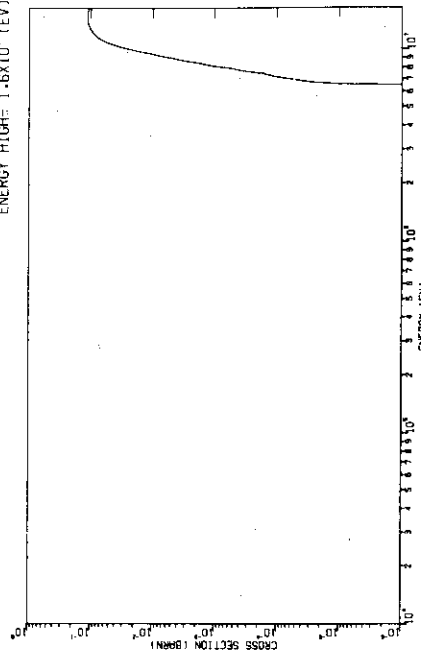
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 28

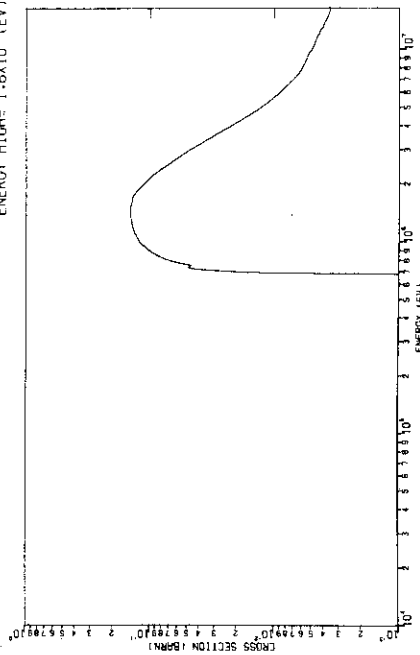
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 51

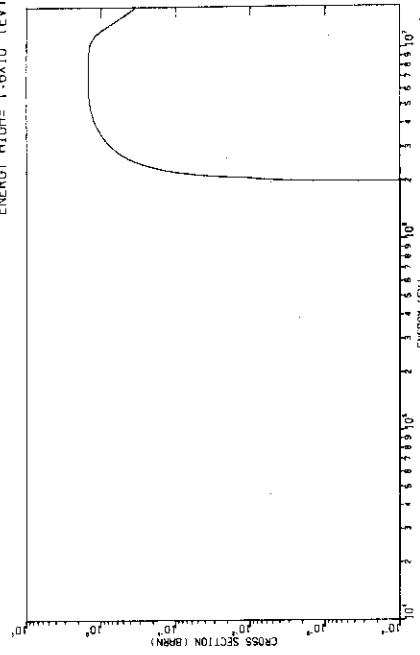
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 91

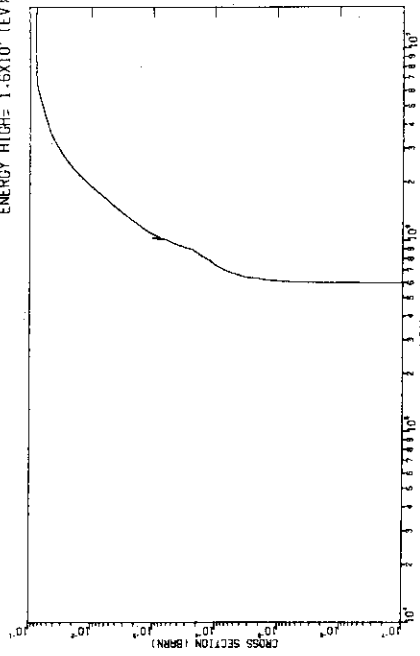
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 103

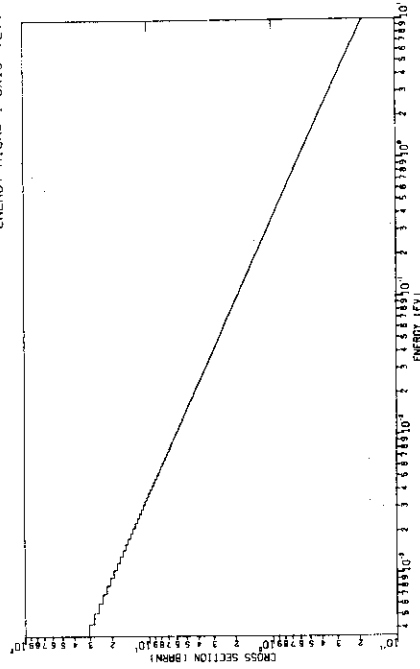
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 102

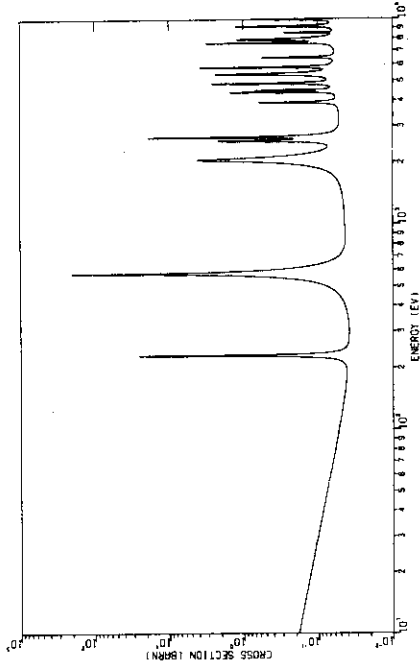
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 102

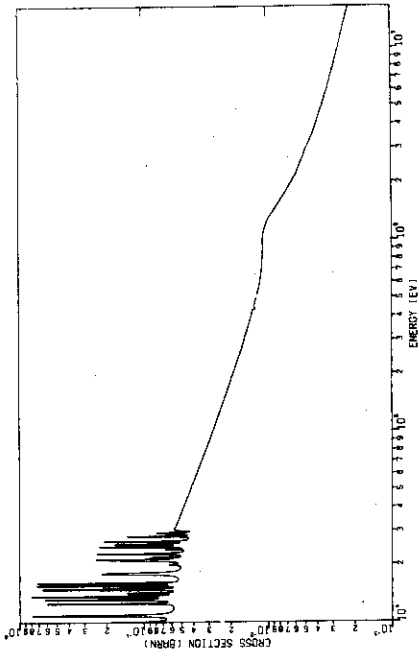
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 102

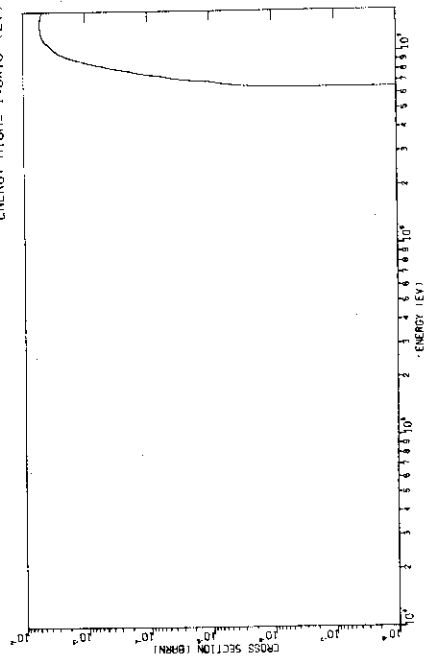
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 104

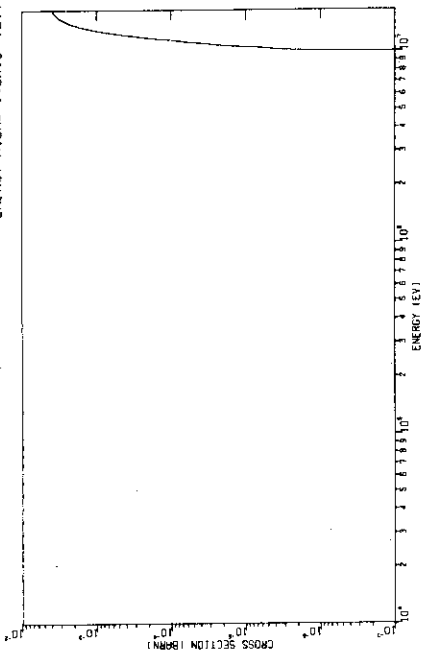
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 106

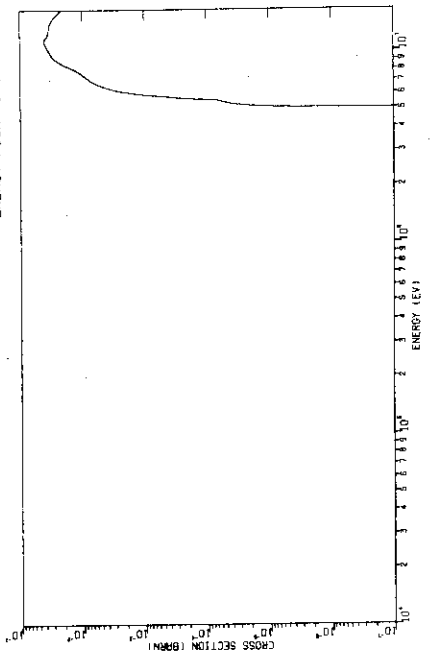
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1295 CU FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



**80 Kr**  
**36**  
**131**

JAERI M 84-053

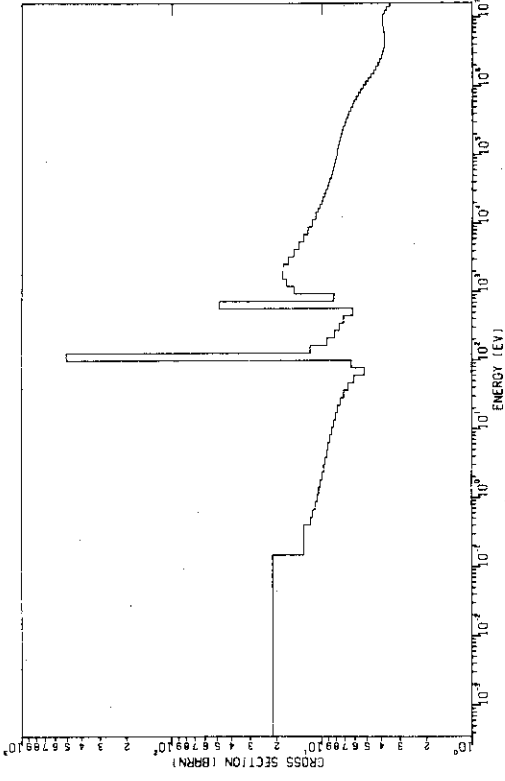
131 KR-80 FROM ENDF/B-IV ( 300K )

TOTAL

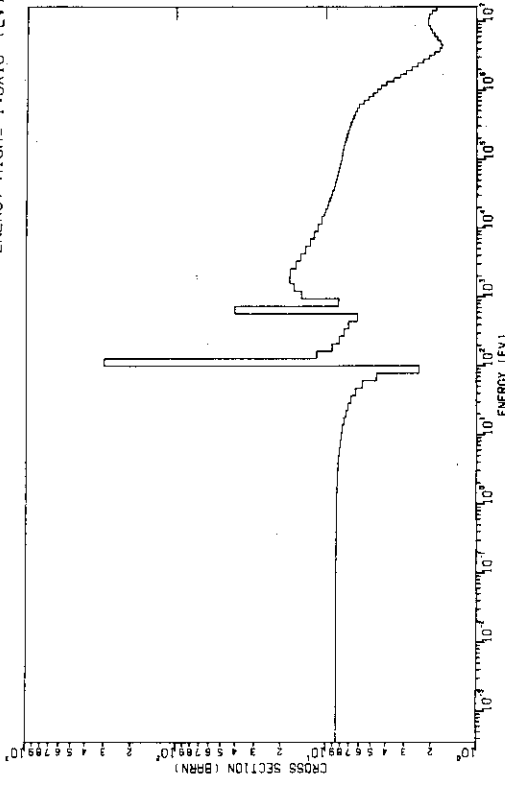
131 KR-80 FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



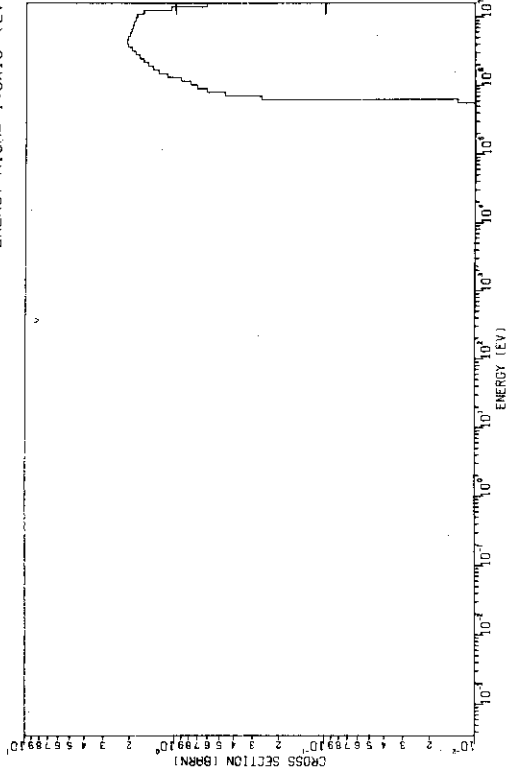
131 KR-80 FROM ENDF/B-IV ( 300K )

INELAS

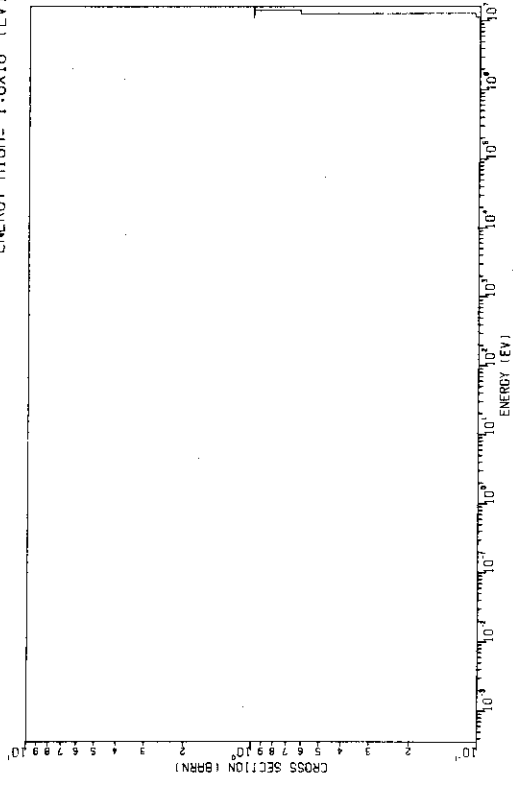
131 KR-80 FROM ENDF/B-IV ( 300K )

(N,2N)

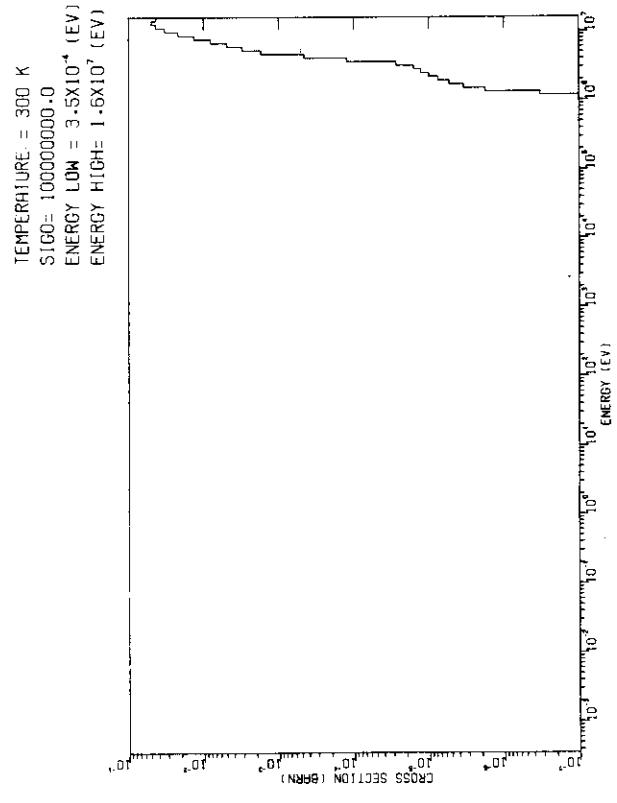
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



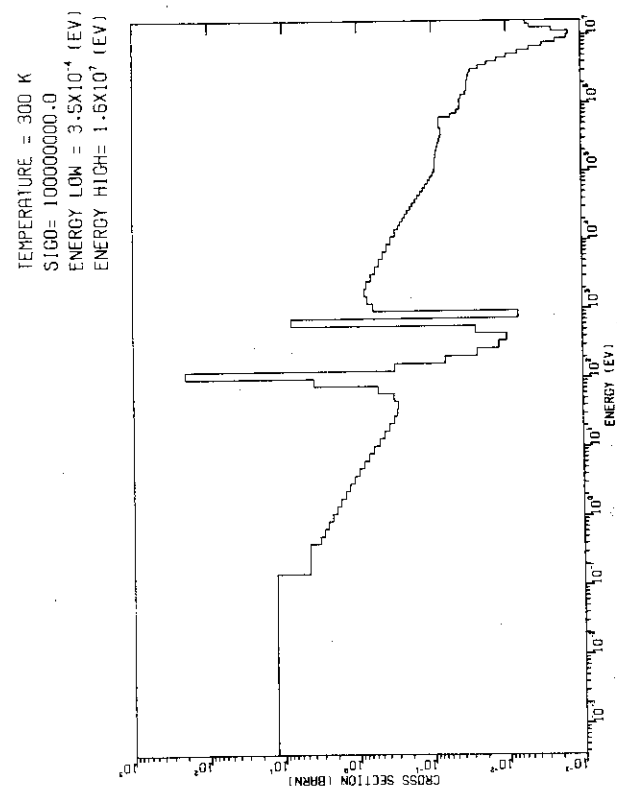
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



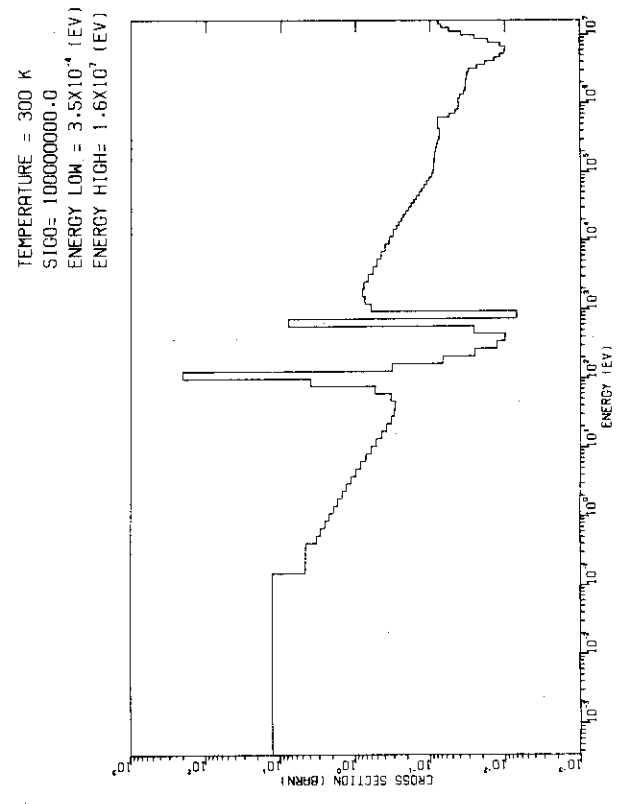
131 KR-80 FROM ENDF/B-IV ( 300K ) (N.P)



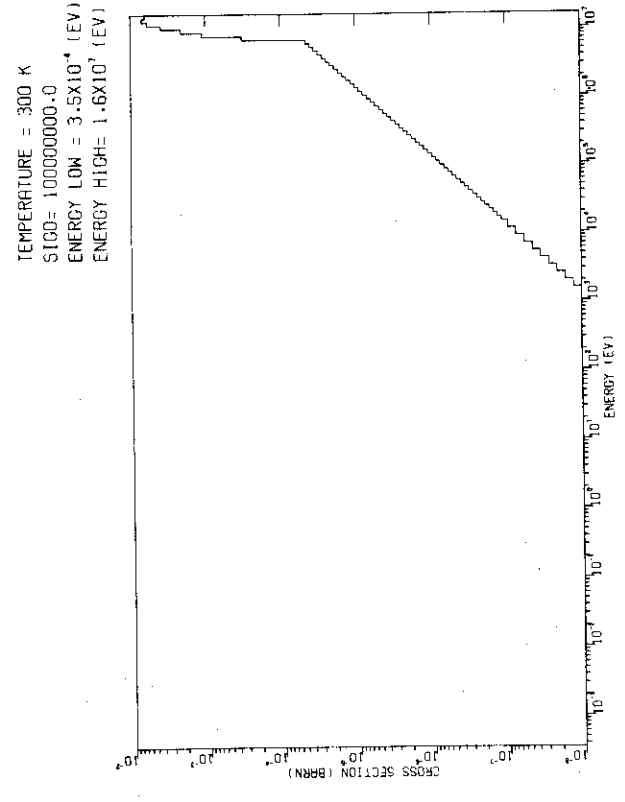
131 KR-80 FROM ENDF/B-IV ( 300K ) (N.O)



131 KR-80 FROM ENDF/B-IV ( 300K ) CAPTURE



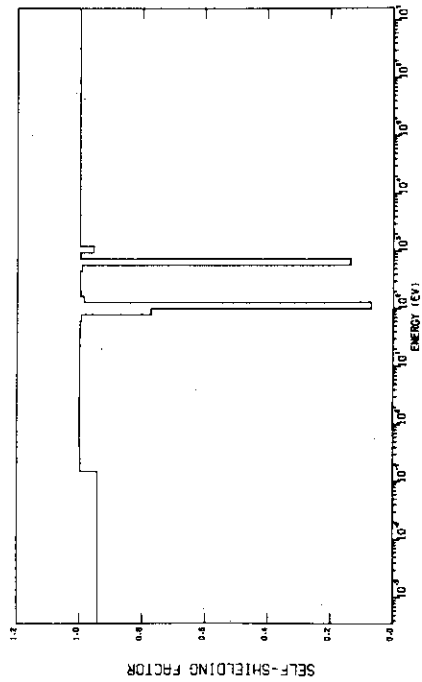
131 KR-80 FROM ENDF/B-IV ( 300K ) (N.R)



131 KR-80 FROM ENDF/B-IV ( 300K )

TOTAL

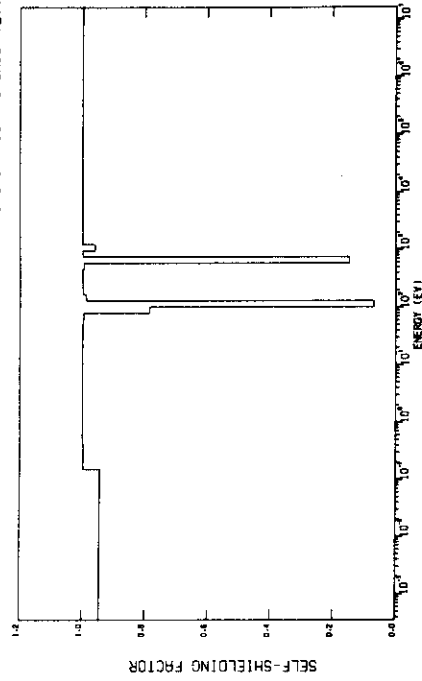
TEMPERATURE = 300 K  
SIG0= 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

TOTAL

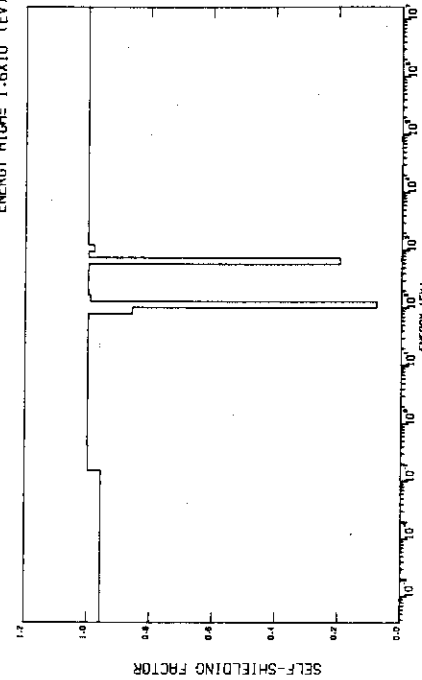
TEMPERATURE = 300 K  
SIG0= 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

TOTAL

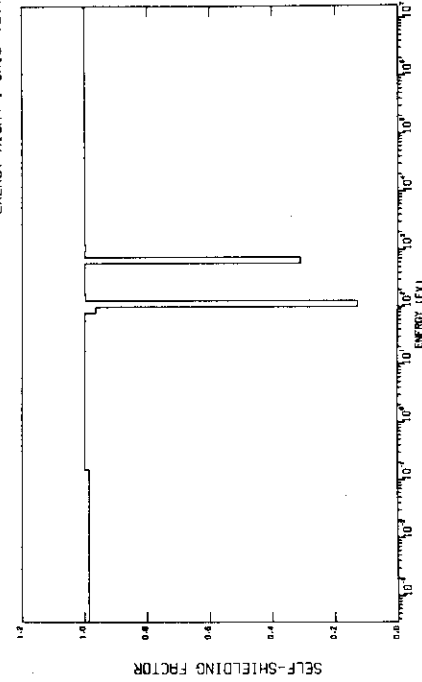
TEMPERATURE = 300 K  
SIG0= 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

TOTAL

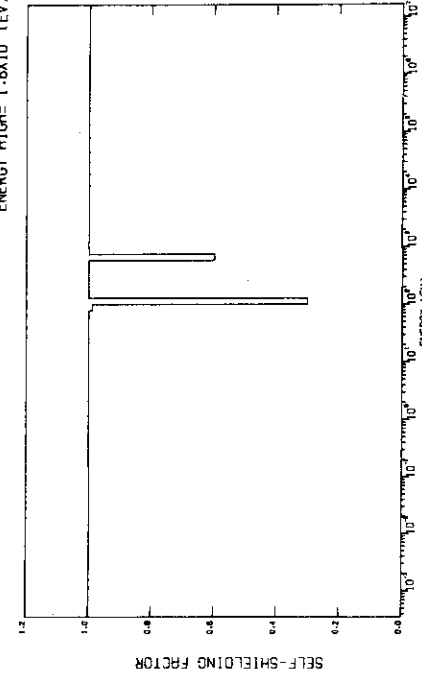
TEMPERATURE = 300 K  
SIG0= 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

TOTAL

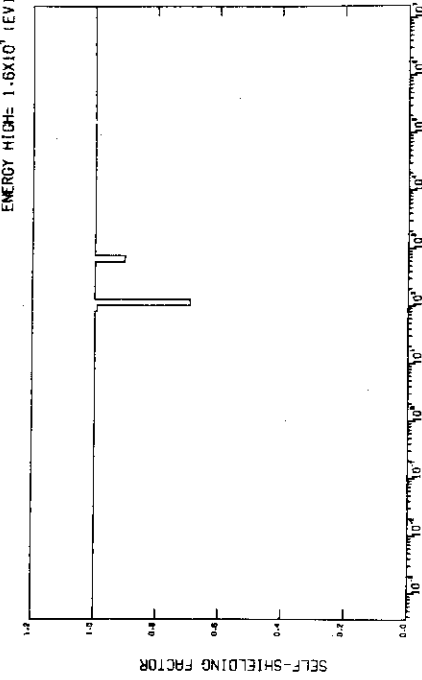
TEMPERATURE = 300 K  
SIG0= 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

TOTAL

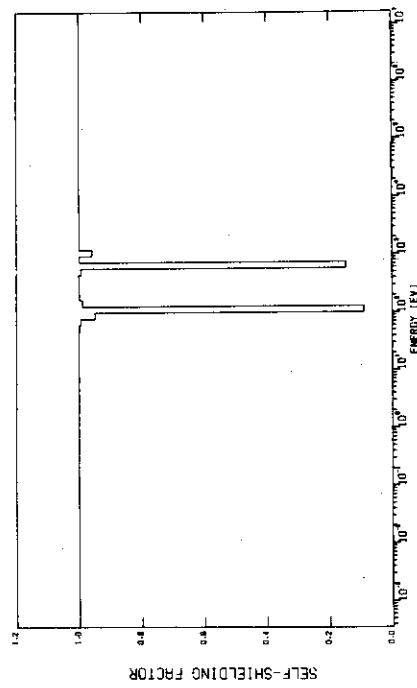
TEMPERATURE = 300 K  
SIG0= 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

ELAS

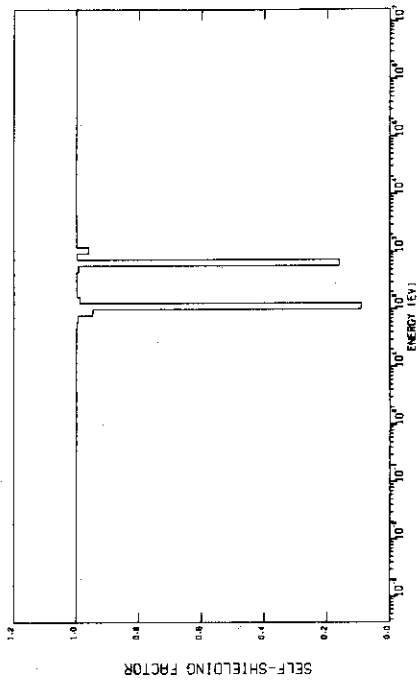
TEMPERATURE = 300 K  
SIG0= 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

ELAS

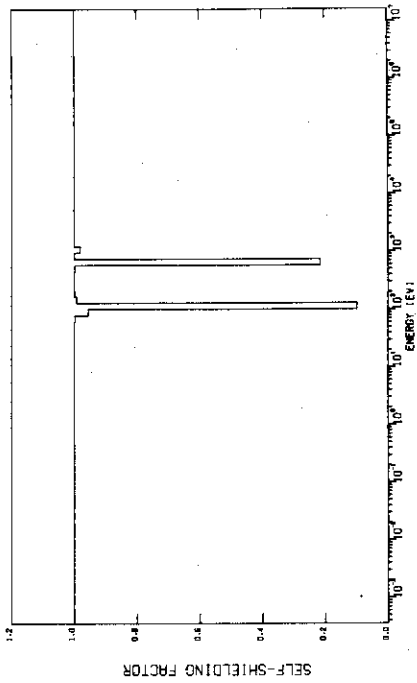
TEMPERATURE = 300 K  
SIG0= 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

ELAS

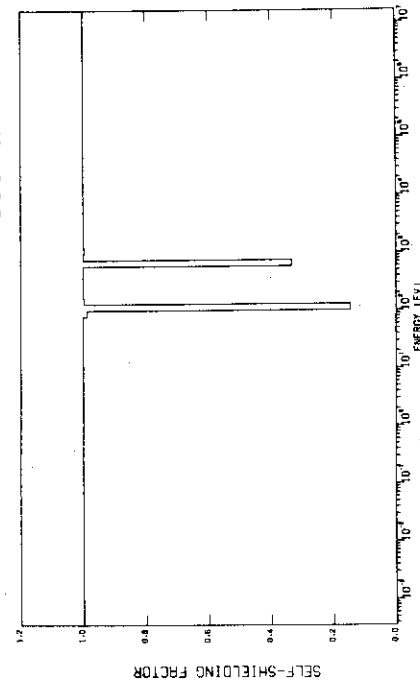
TEMPERATURE = 300 K  
SIG0= 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

ELAS

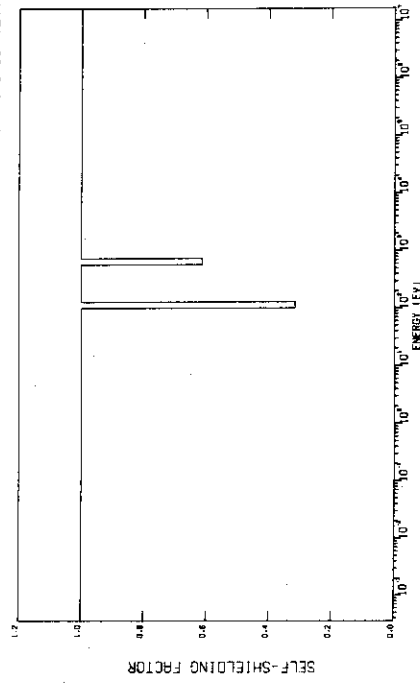
TEMPERATURE = 300 K  
SIG0= 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

ELAS

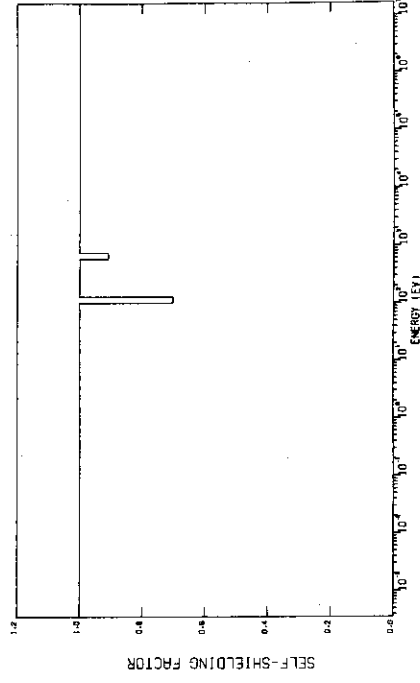
TEMPERATURE = 300 K  
SIG0= 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

ELAS

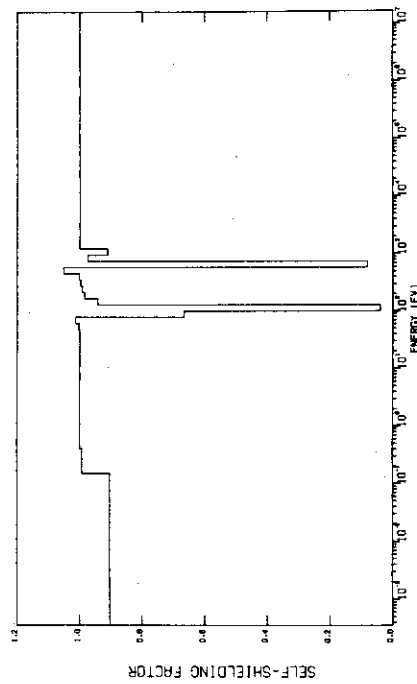
TEMPERATURE = 300 K  
SIG0= 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

CAPTURE

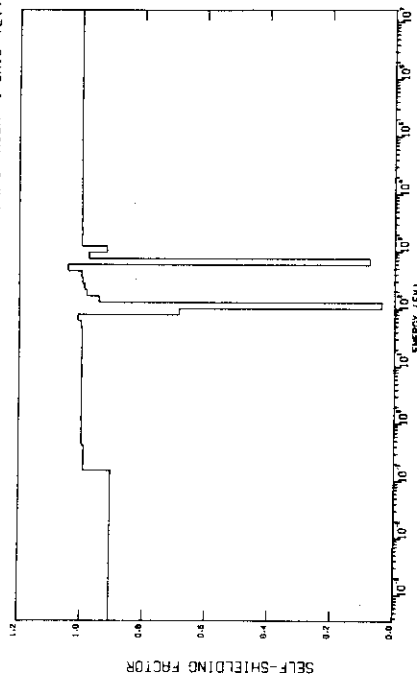
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

CAPTURE

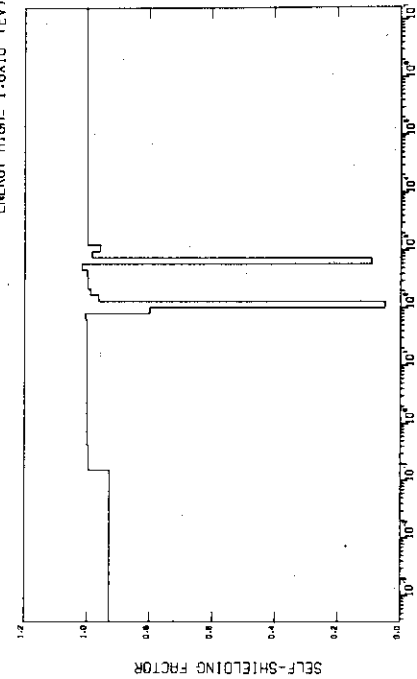
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

CAPTURE

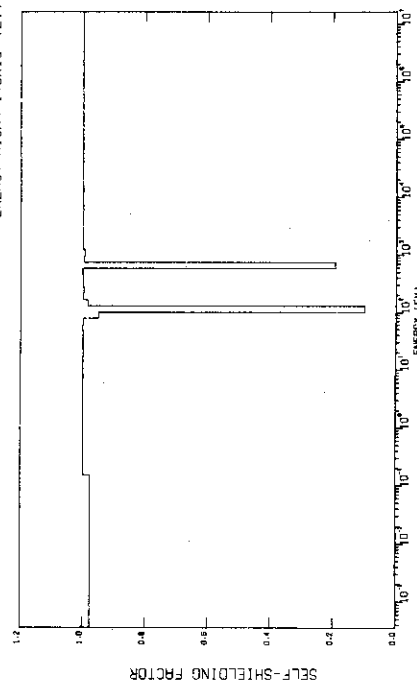
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

CAPTURE

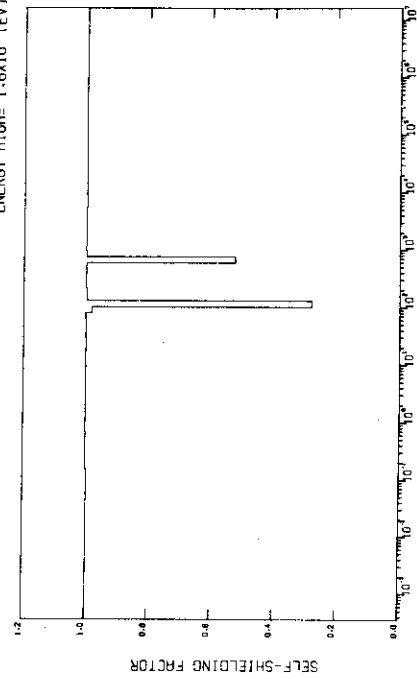
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

CAPTURE

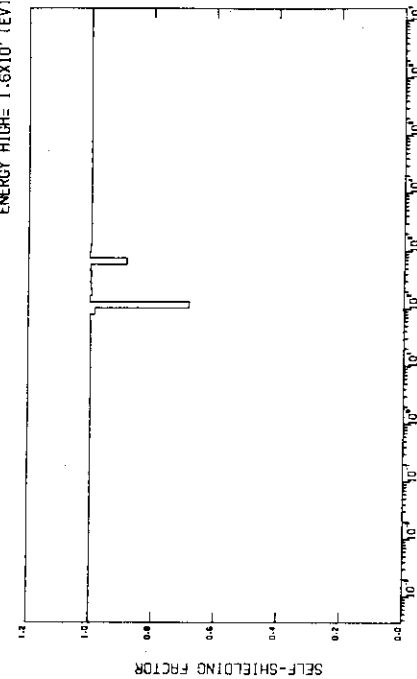
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

CAPTURE

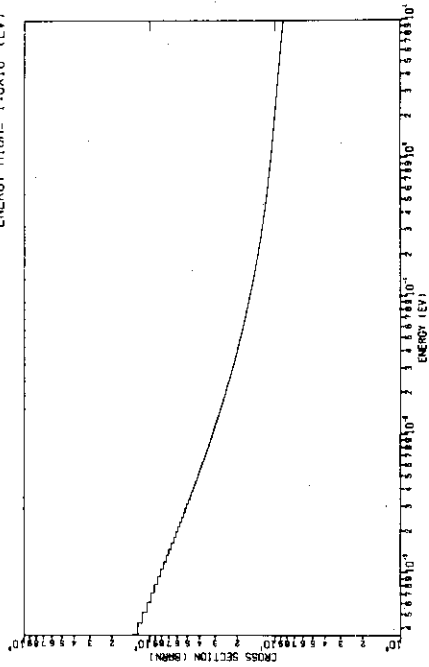
TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

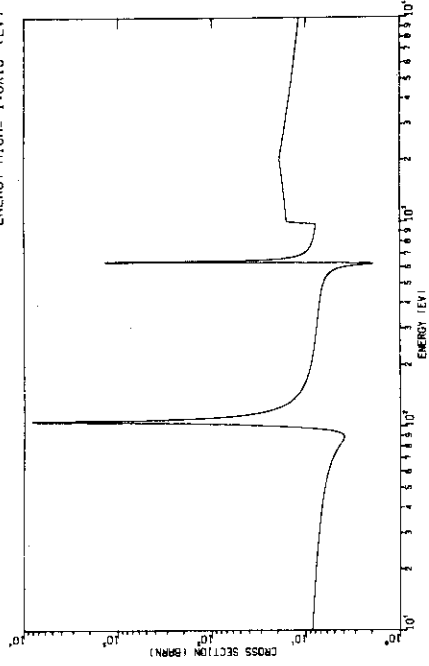
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

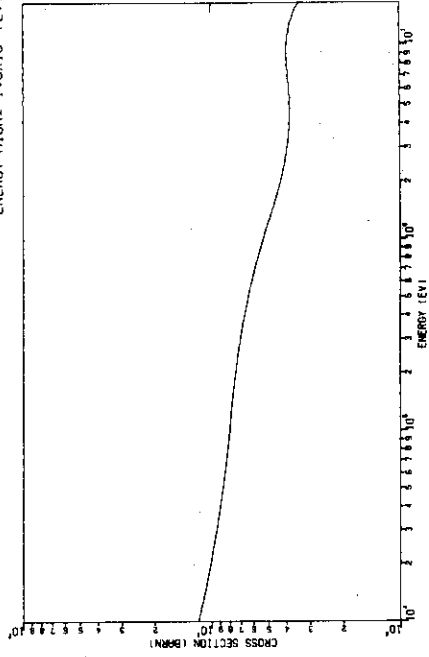
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

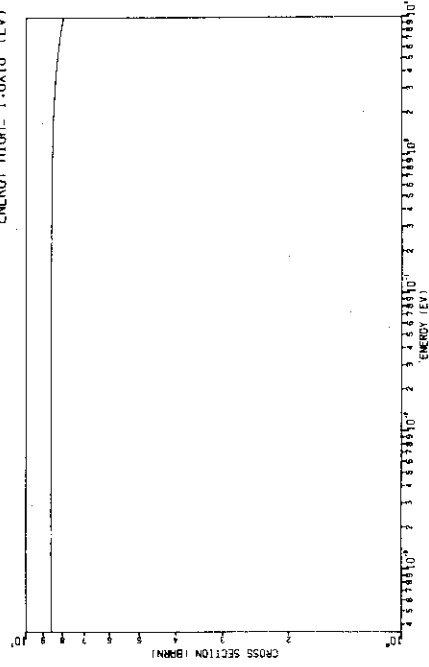
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

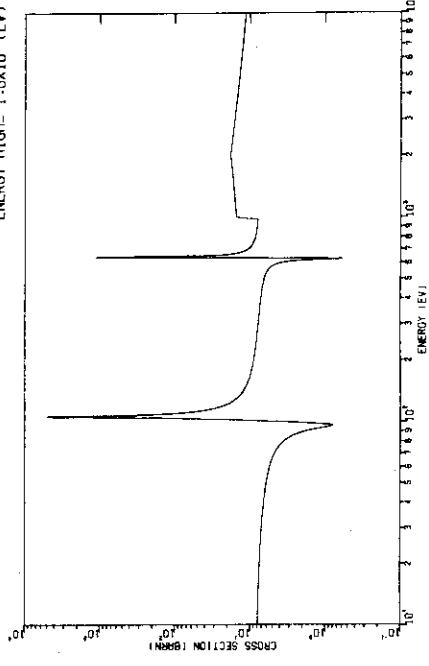
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

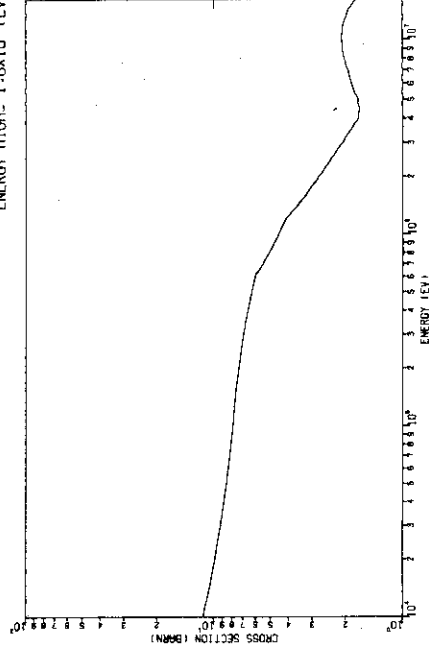
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)

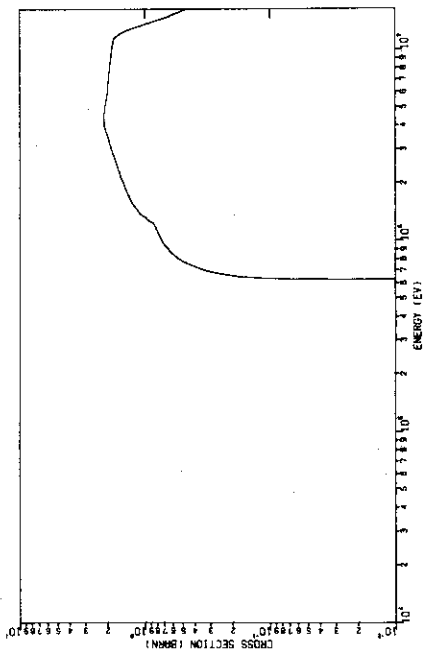




131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 4

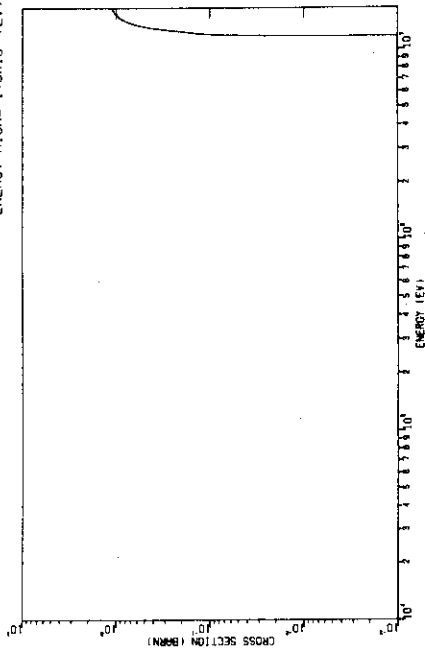
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 16

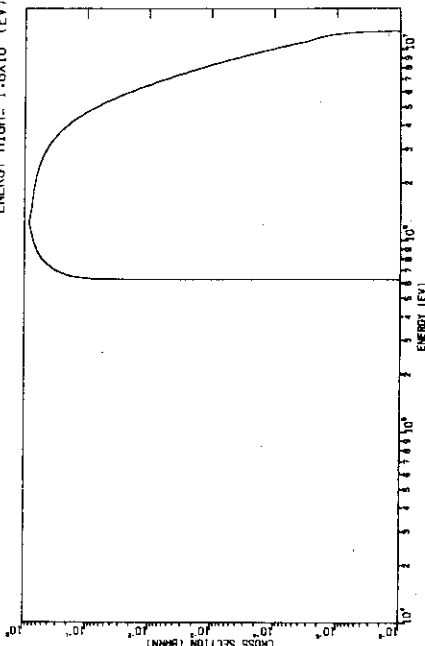
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 51

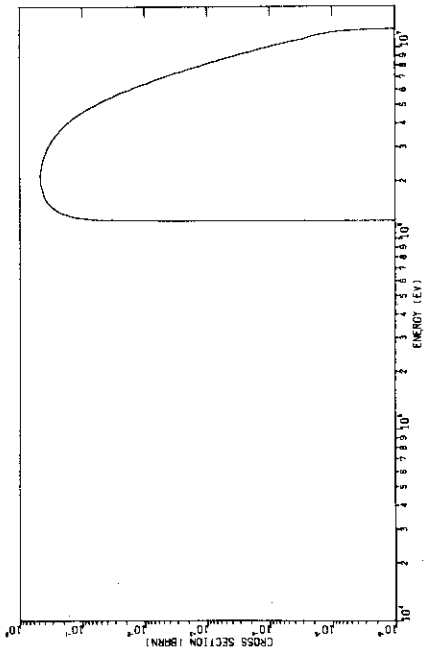
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 52

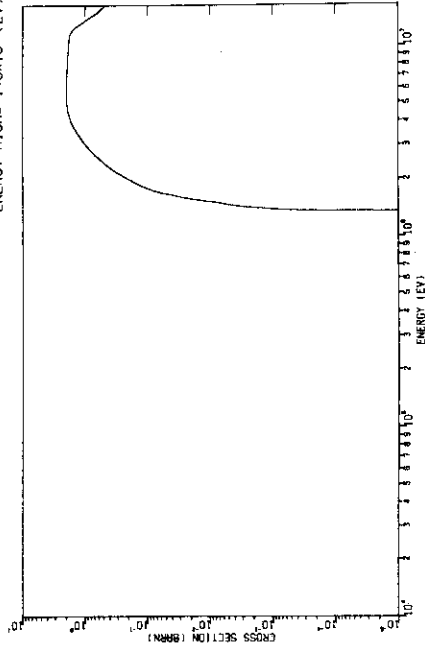
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 91

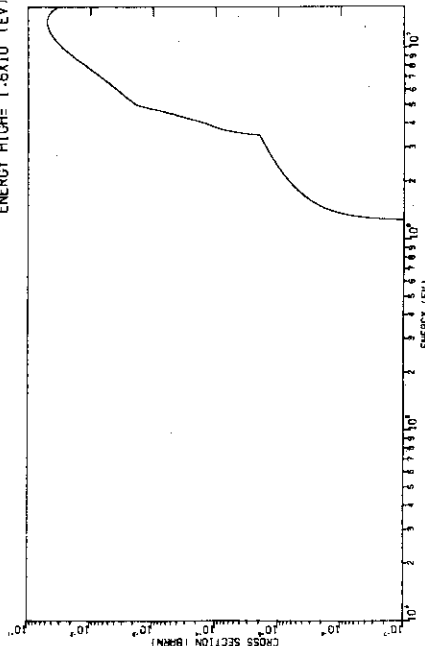
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 103

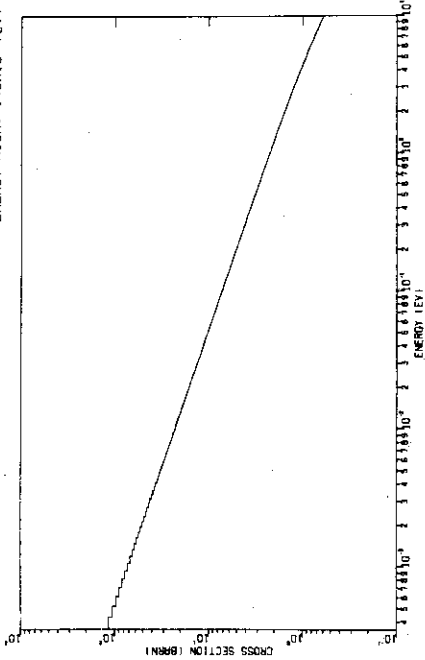
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

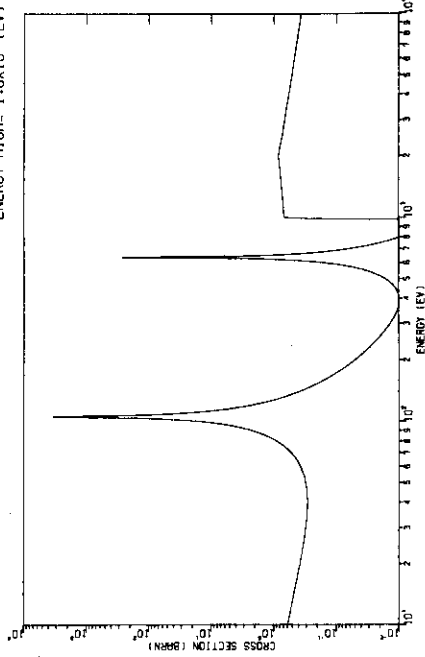
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

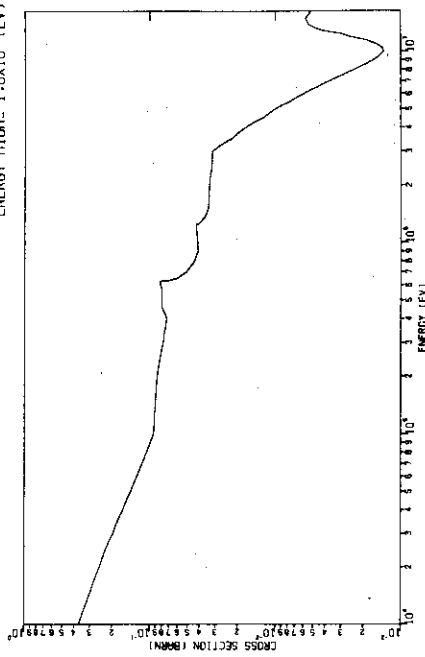
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

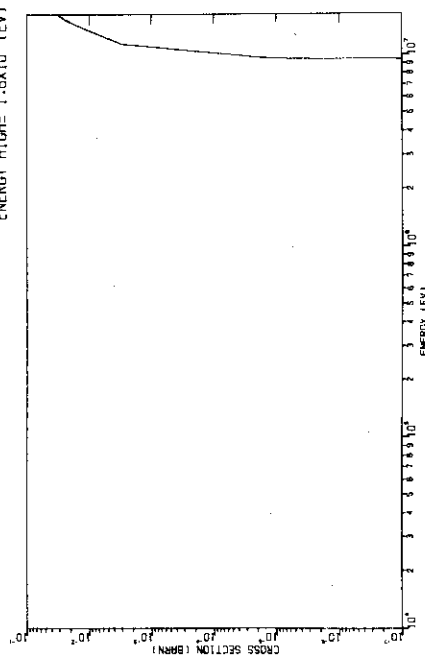
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 104

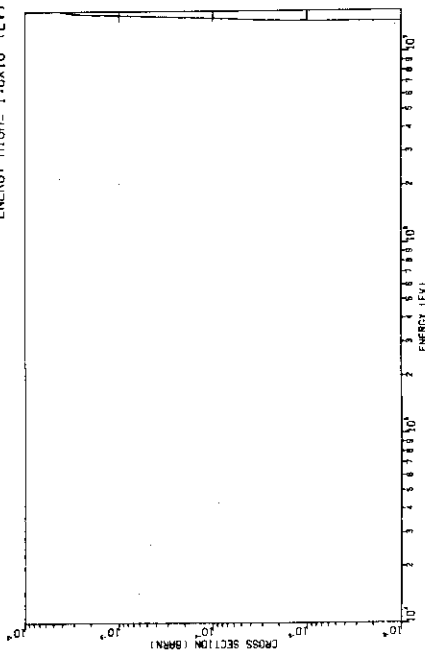
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 105

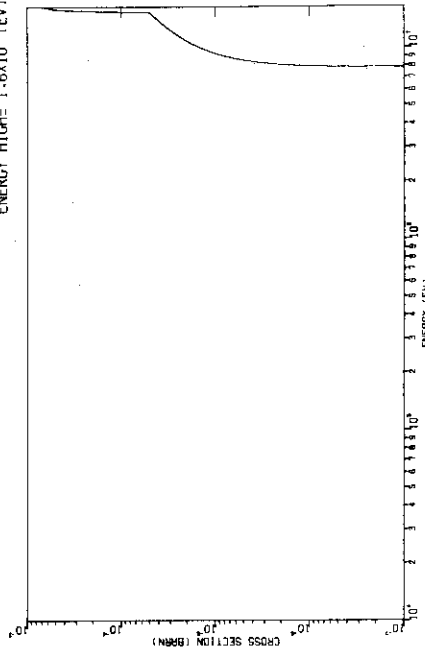
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 105

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



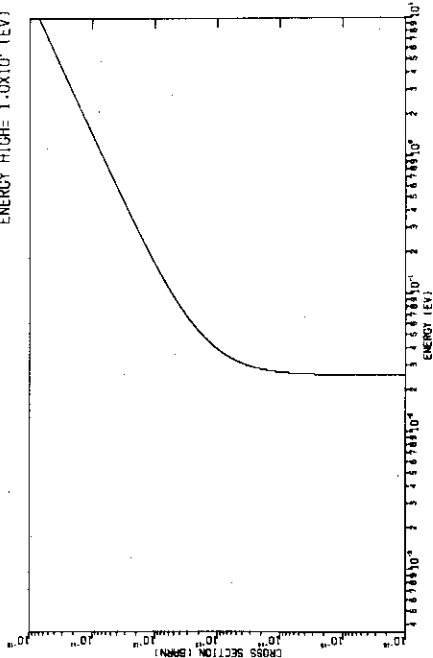
<sup>80</sup>Kr  
<sup>36</sup>Kr  
131

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131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 107

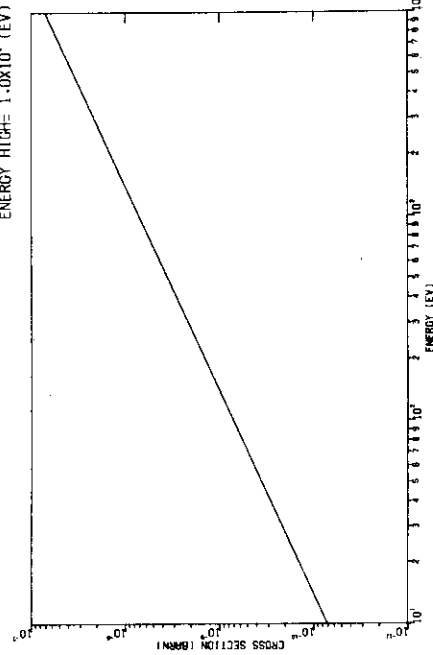
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 107

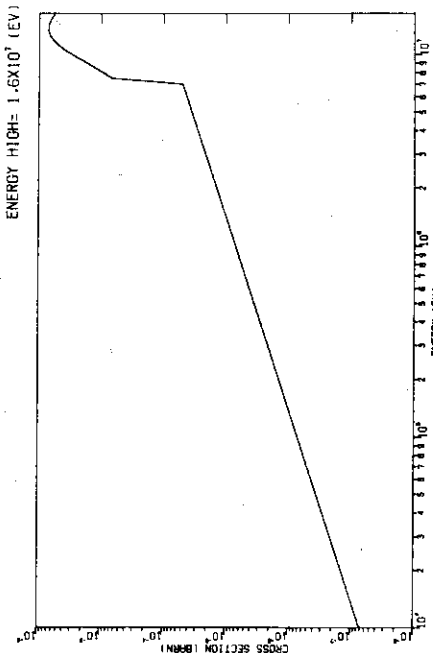
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



131 KR-80 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 107

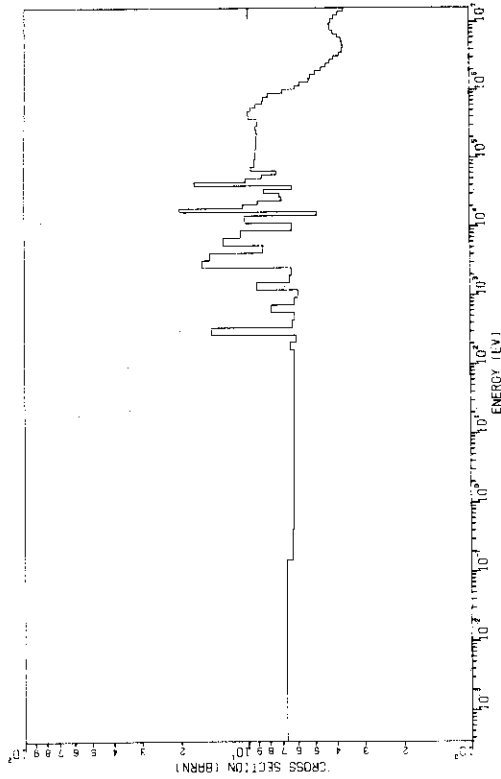
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 ZR FROM ENDF/B-IV ( 300K )

TOTAL

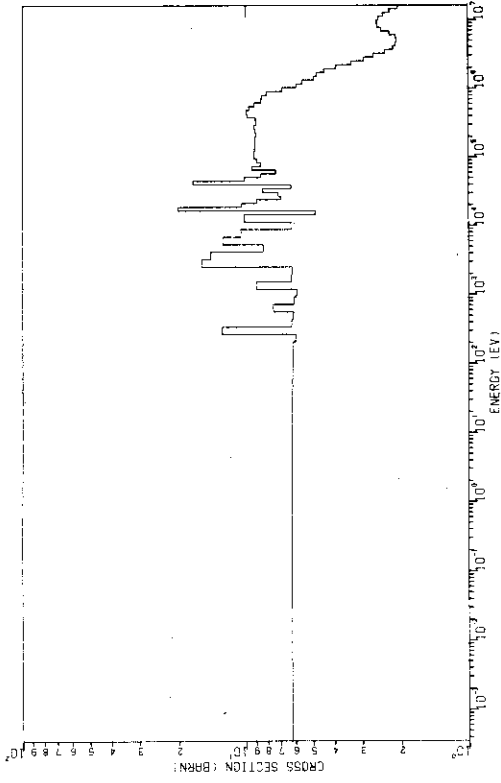
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 ZR FROM ENDF/B-IV ( 300K )

ELAS

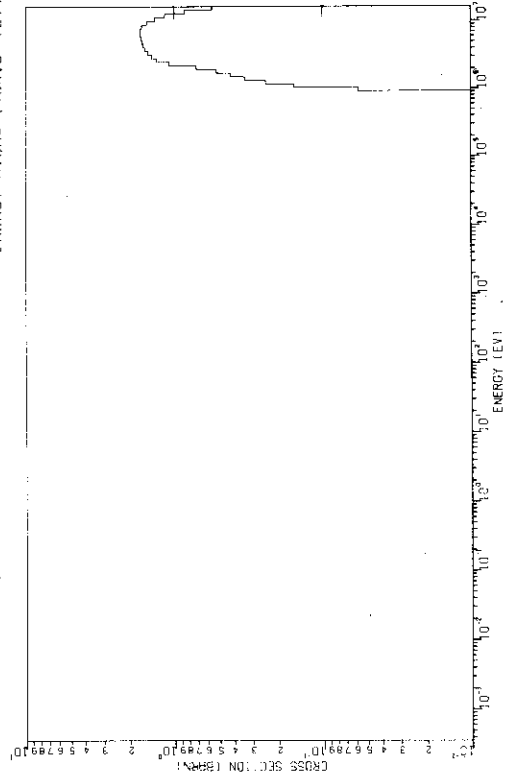
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 ZR FROM ENDF/B-IV ( 300K )

INFLAS

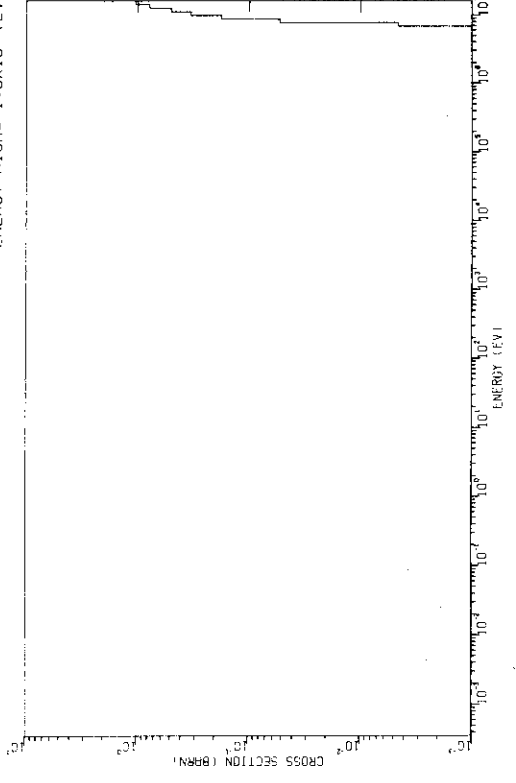
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 ZR FROM ENDF/B-IV ( 300K )

(N,2N)

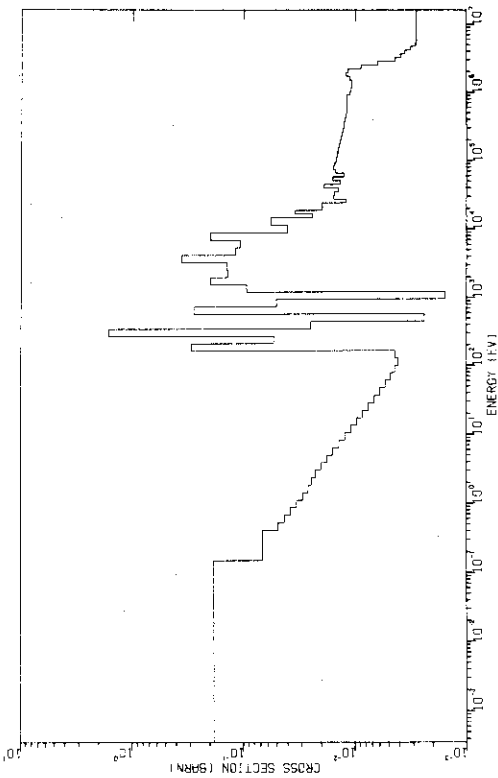
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

( N.C. )

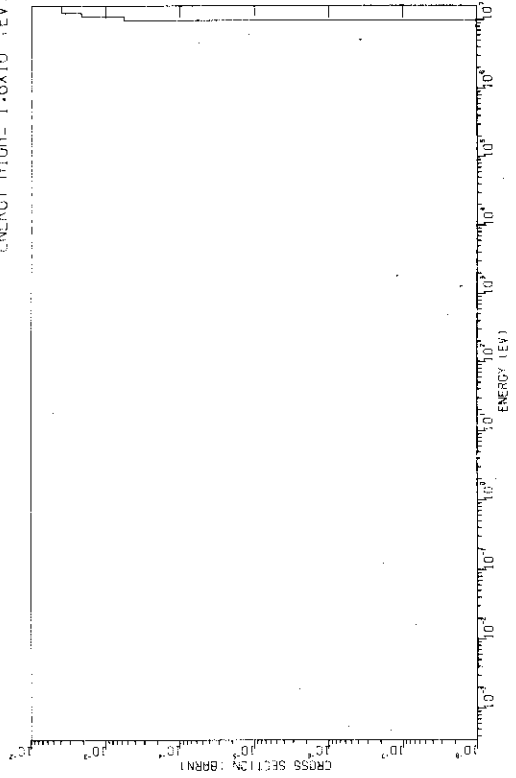
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

( N.C. )

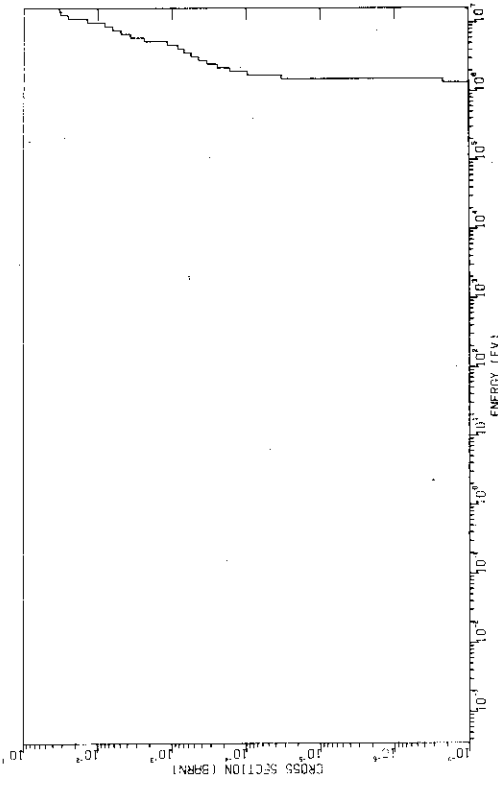
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

( N.P. )

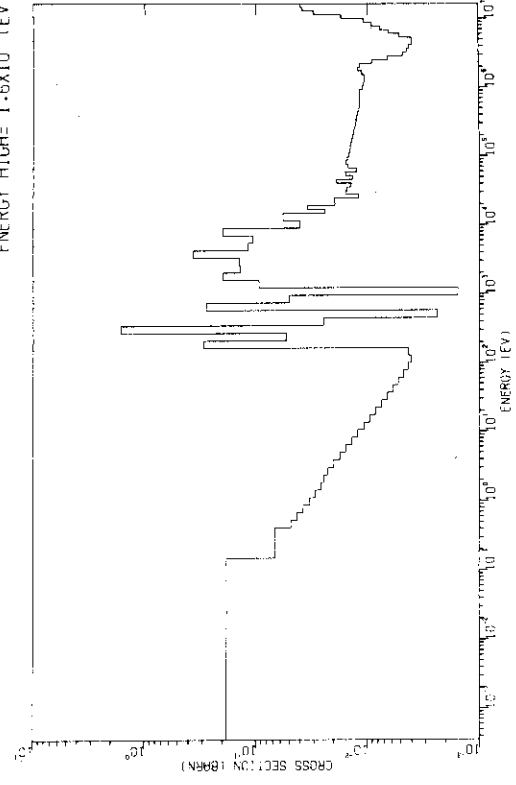
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

CAPTURE

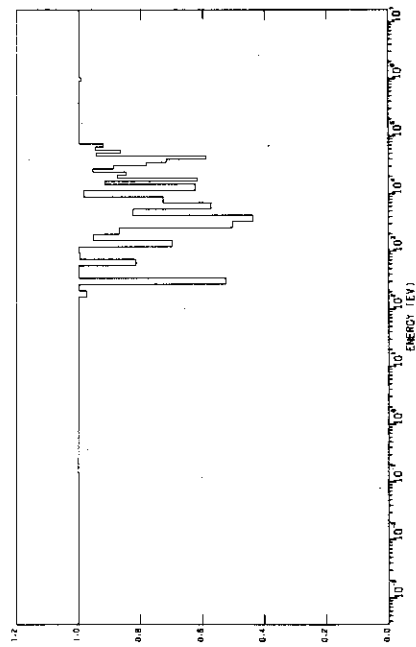
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

TOTAL

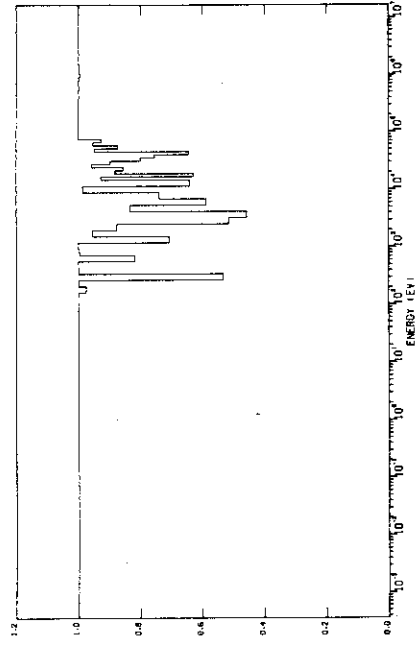
TEMPERATURE = 300 K  
SIGG= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

TOTAL

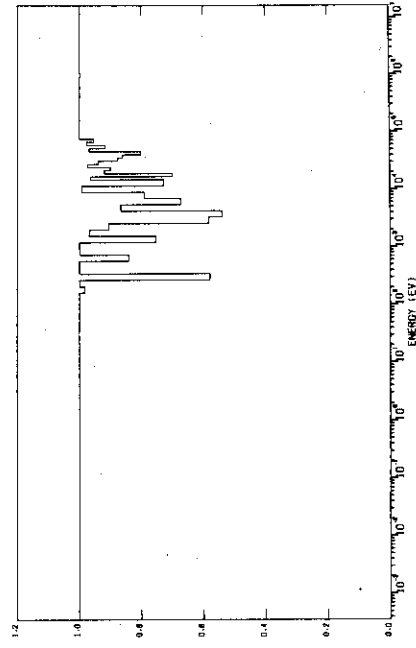
TEMPERATURE = 300 K  
SIGG= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

TOTAL

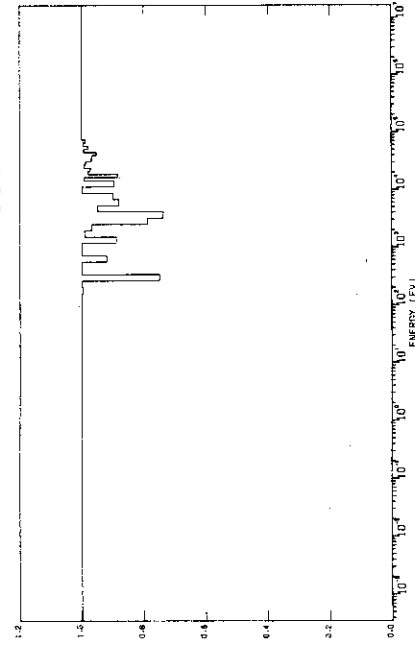
TEMPERATURE = 300 K  
SIGG= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

TOTAL

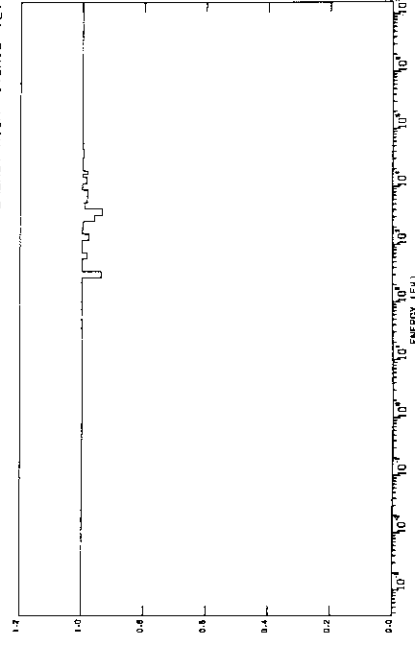
TEMPERATURE = 300 K  
SIGG= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

TOTAL

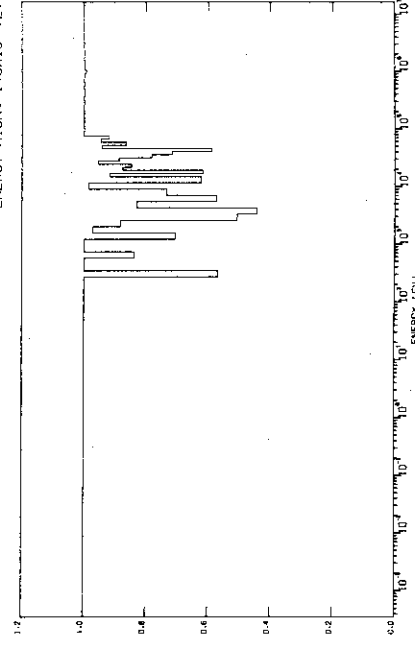
TEMPERATURE = 300 K  
SIGG= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV ( 300K )

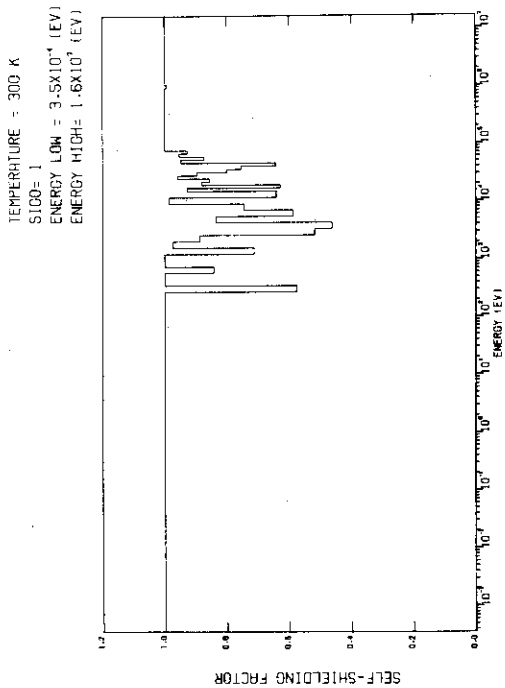
ELRS

TEMPERATURE = 300 K  
SIGG= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



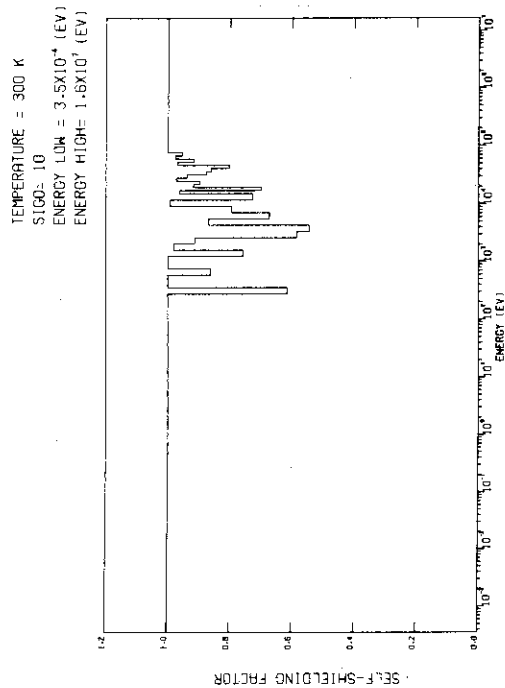
1284 Zr FROM ENDF/B-IV ( 300K )

ELAS



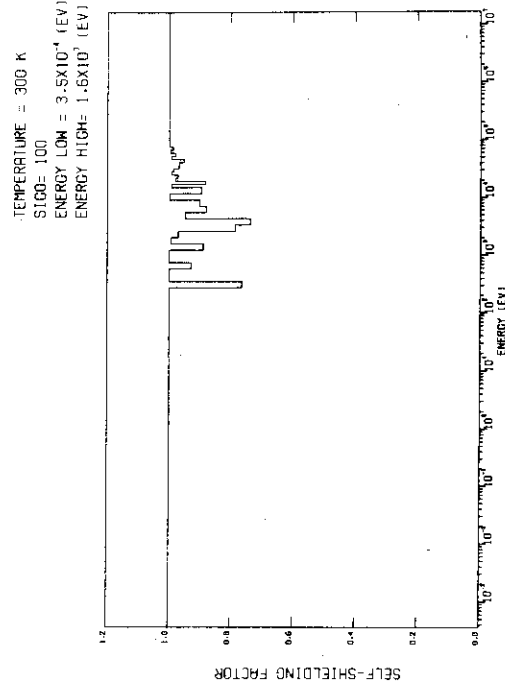
1284 Zr FROM ENDF/B-IV ( 300K )

ELAS



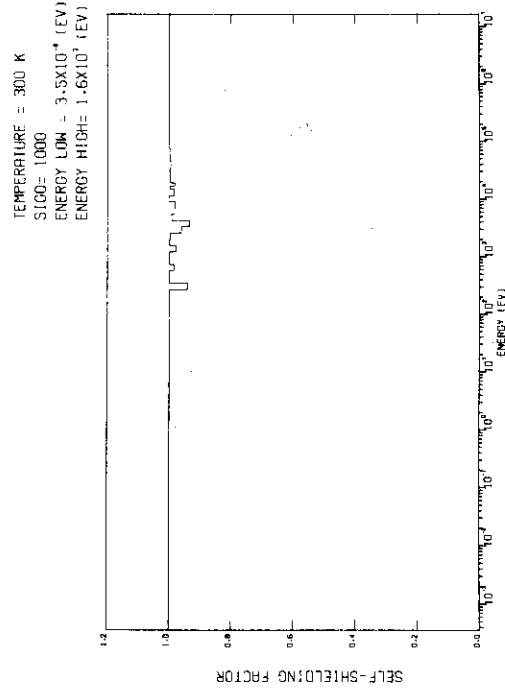
1284 Zr FROM ENDF/B-IV ( 300K )

ELAS



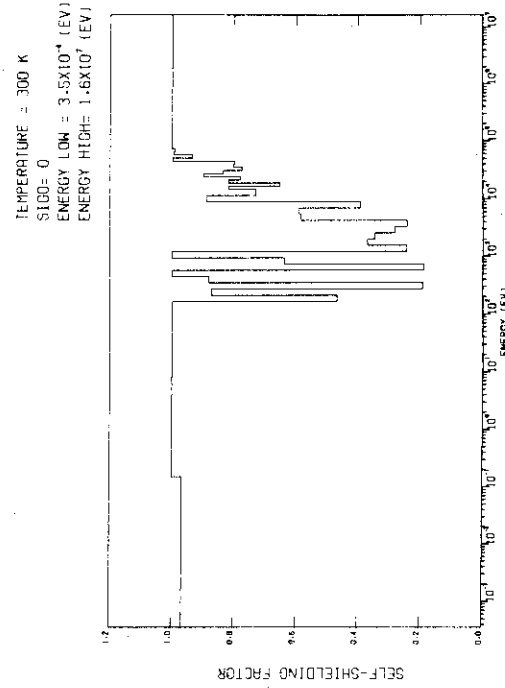
1284 Zr FROM ENDF/B-IV ( 300K )

ELAS



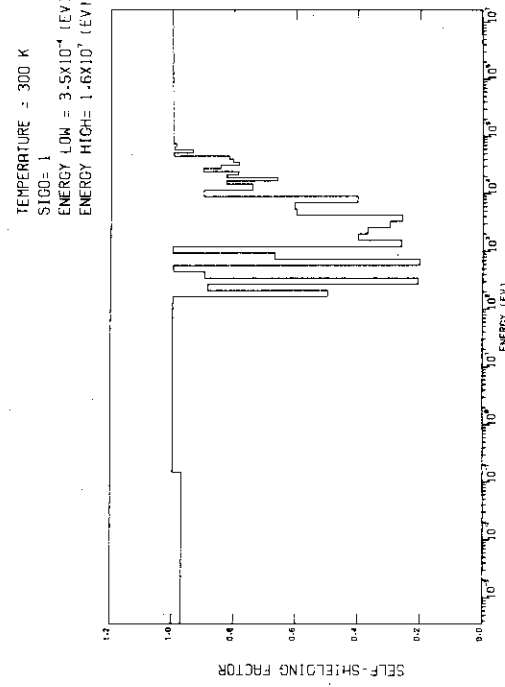
1284 Zr FROM ENDF/B-IV ( 300K )

CAPTURE



1284 Zr FROM ENDF/B-IV ( 300K )

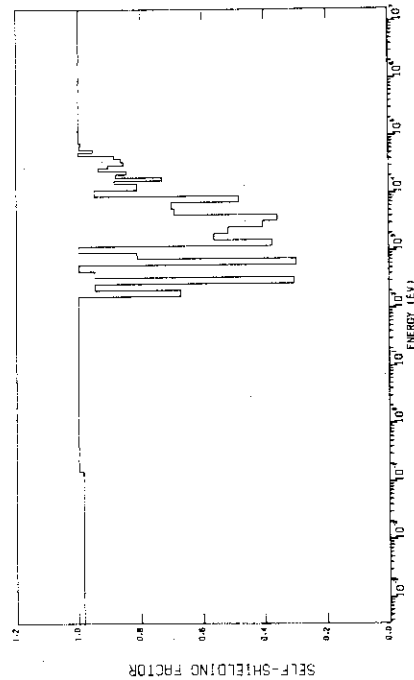
CAPTURE



1284 ZR FROM ENDF/B-IV ( 300K )

CAPTURE

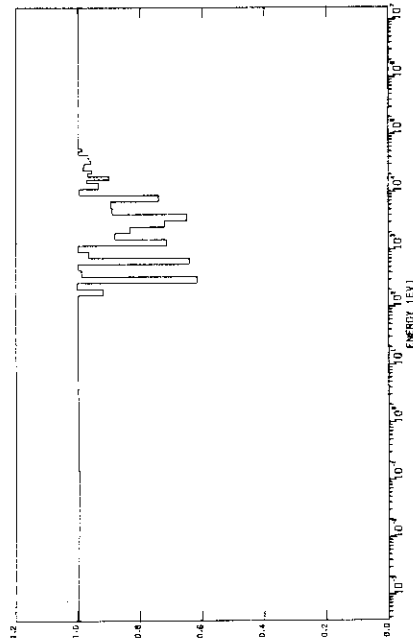
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 ZR FROM ENDF/B-IV ( 300K )

CAPTURE

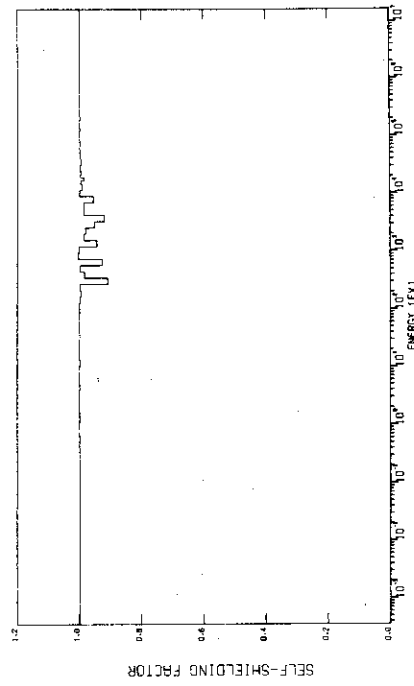
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 ZR FROM ENDF/B-IV ( 300K )

CAPTURE

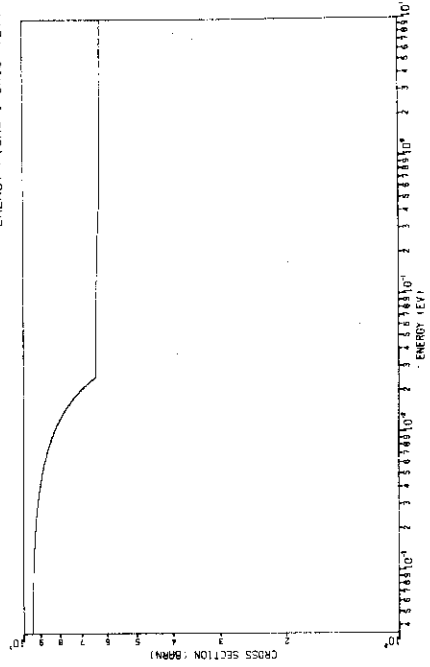
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 ZR FROM ENDF/B-IV

REACTION TYPE = 1

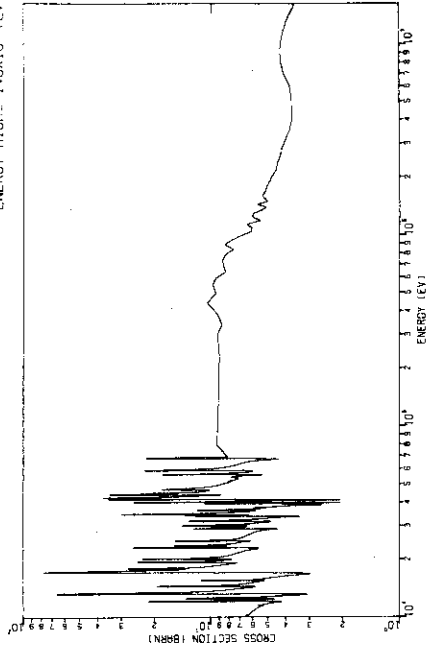
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1284 ZR FROM ENDF/B-IV

REACTION TYPE = 1

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

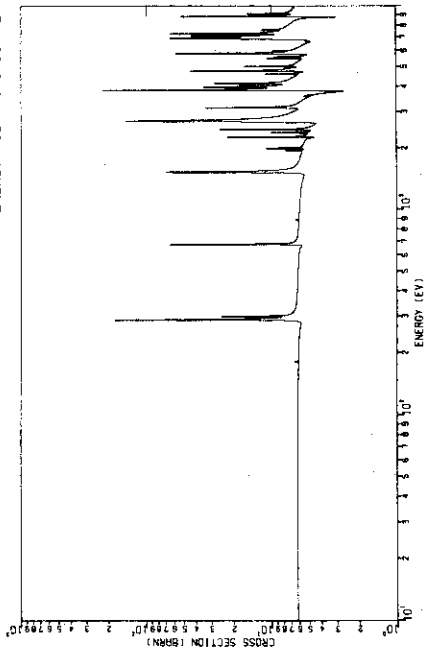




1284 Zr FROM ENDF/B-IV

REACTION TYPE = 2

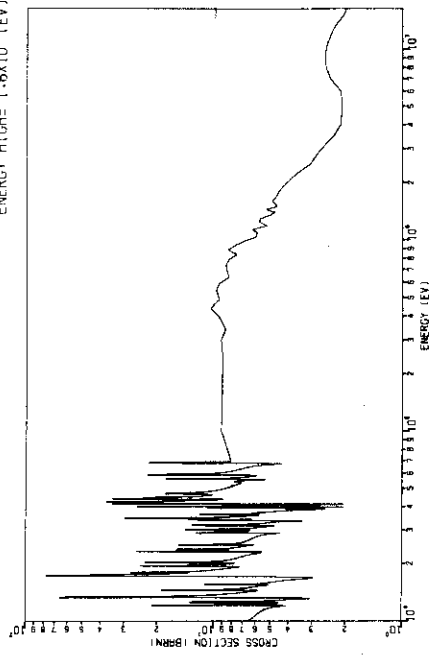
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 2

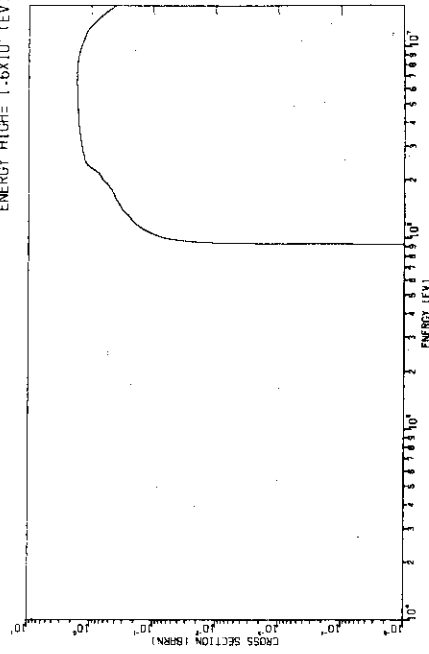
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 4

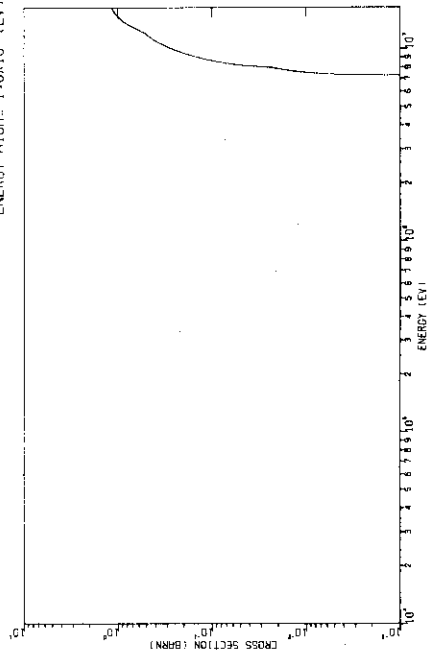
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 16

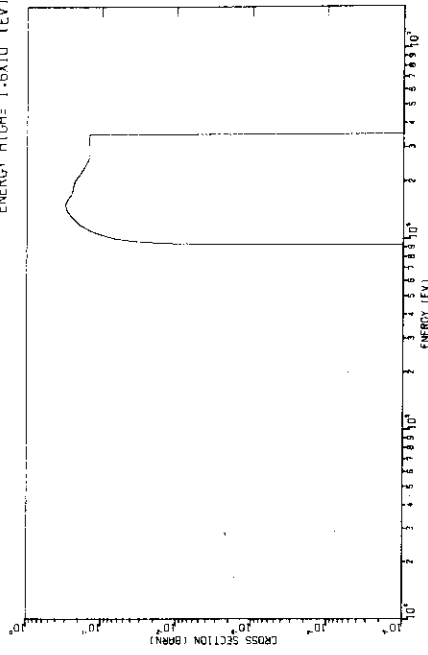
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 51

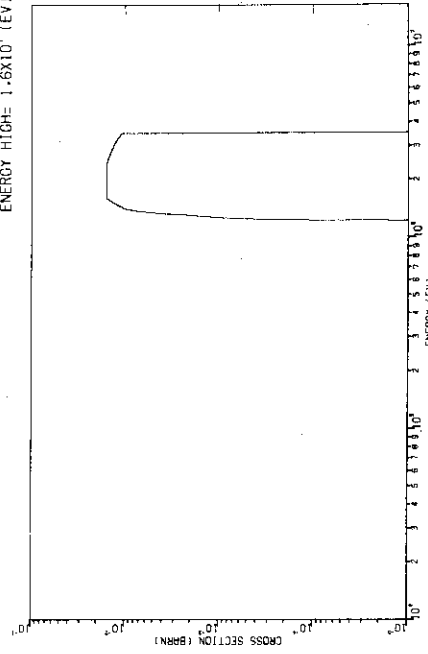
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 52

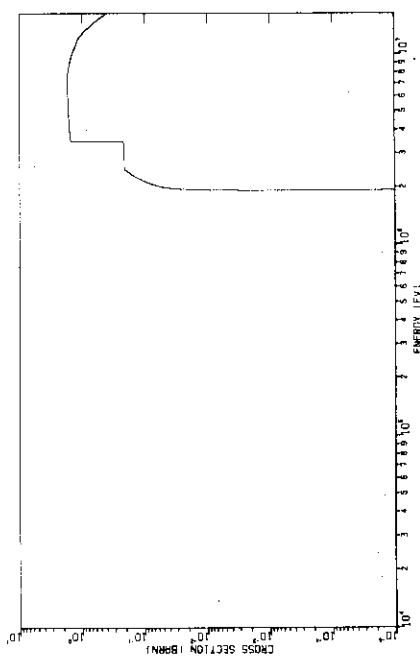
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 91

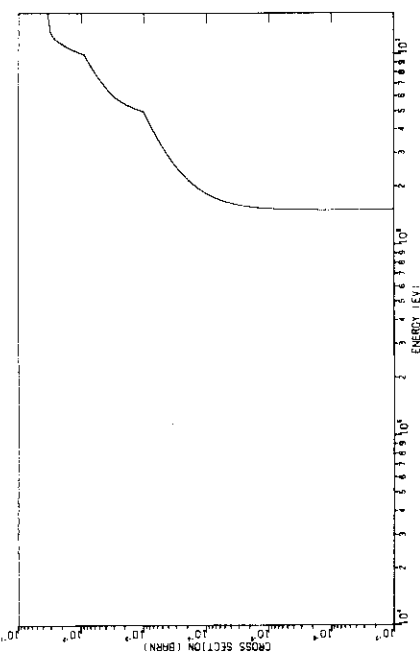
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 103

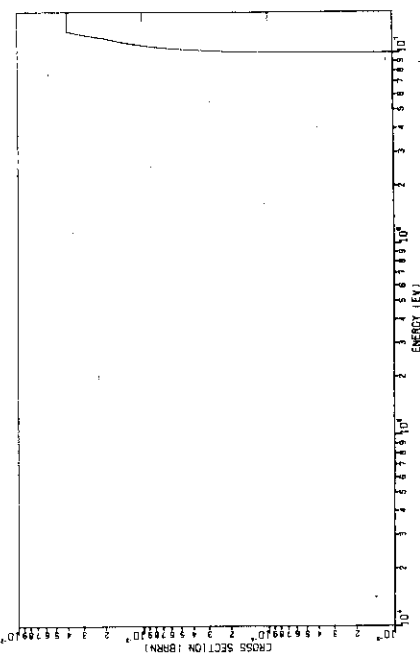
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 107

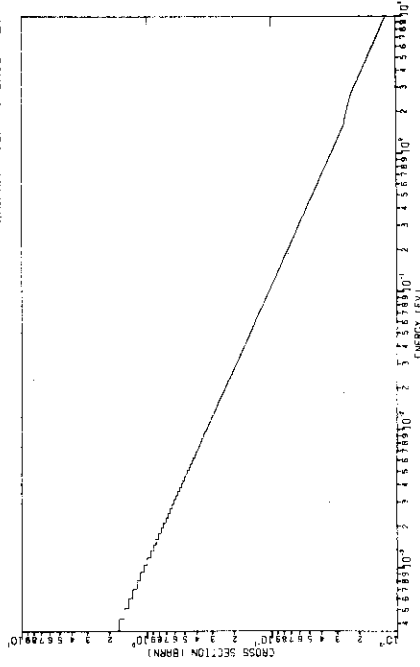
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 102

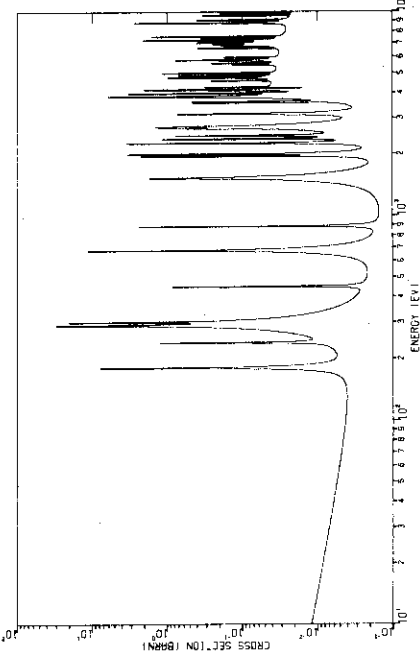
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 102

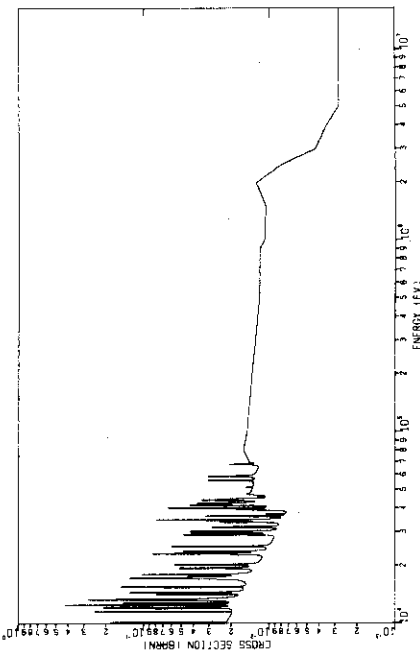
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1284 Zr FROM ENDF/B-IV

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



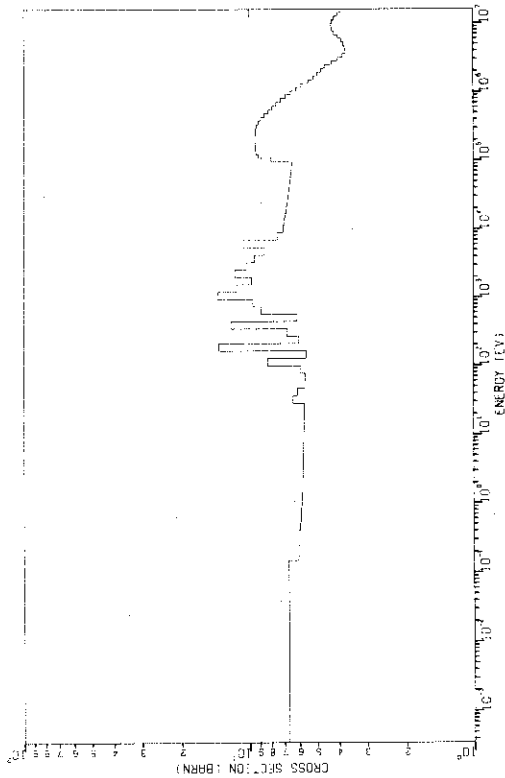
1189 NB FROM ENDF/B-IV ( 300K )

TOTAL

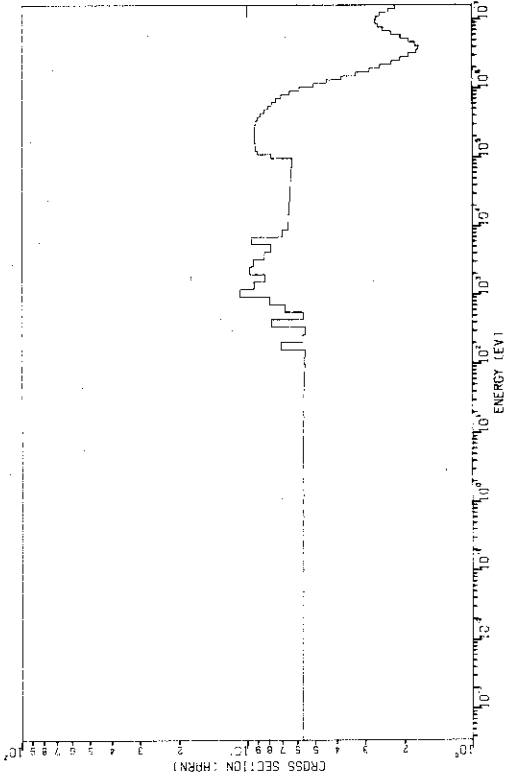
1189 NB FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0 = 1.00000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.5X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0 = 1.00000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.5X10<sup>7</sup> (EV)



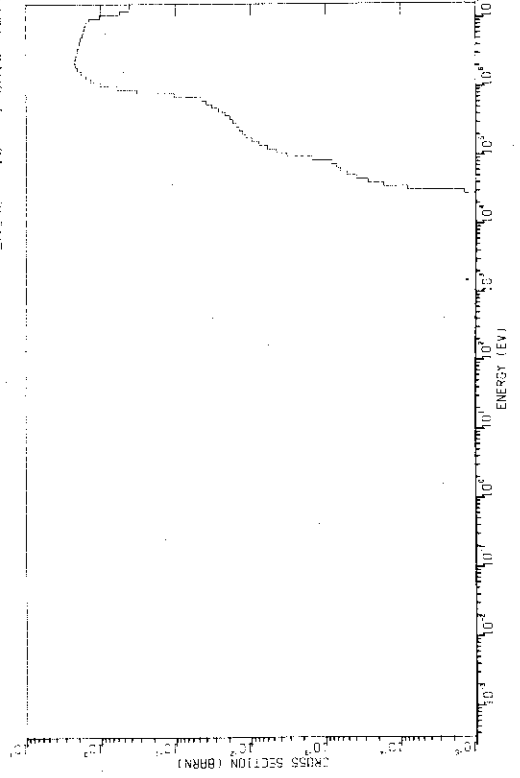
1189 NB FROM ENDF/B-IV ( 300K )

INELAS

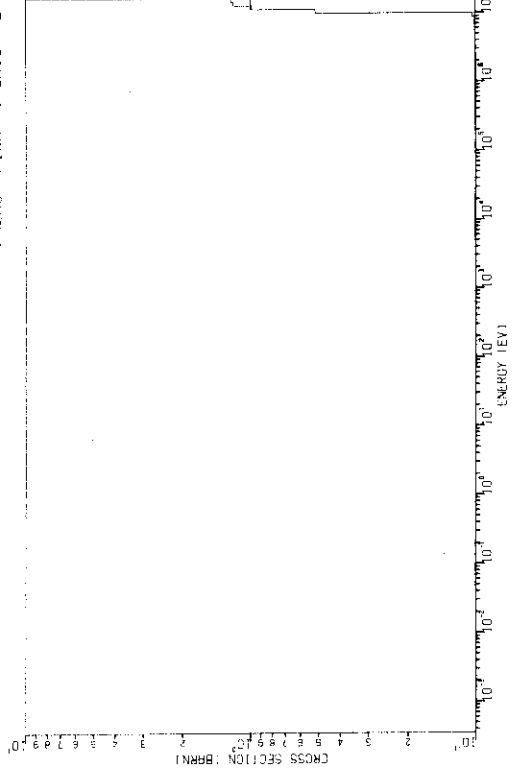
1189 NB FROM ENDF/B-IV ( 300K )

( N,2N )

TEMPERATURE = 300 K  
SIG0 = 1.00000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.5X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0 = 1.00000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.5X10<sup>7</sup> (EV)

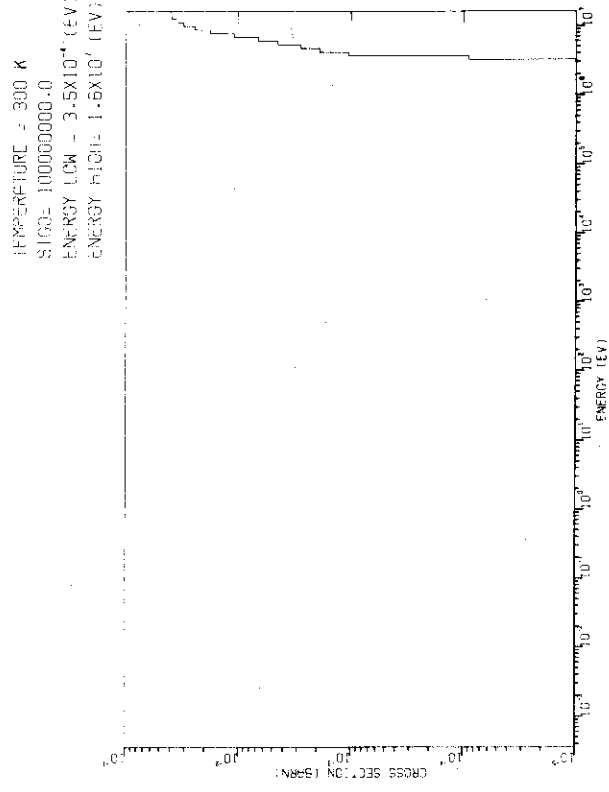
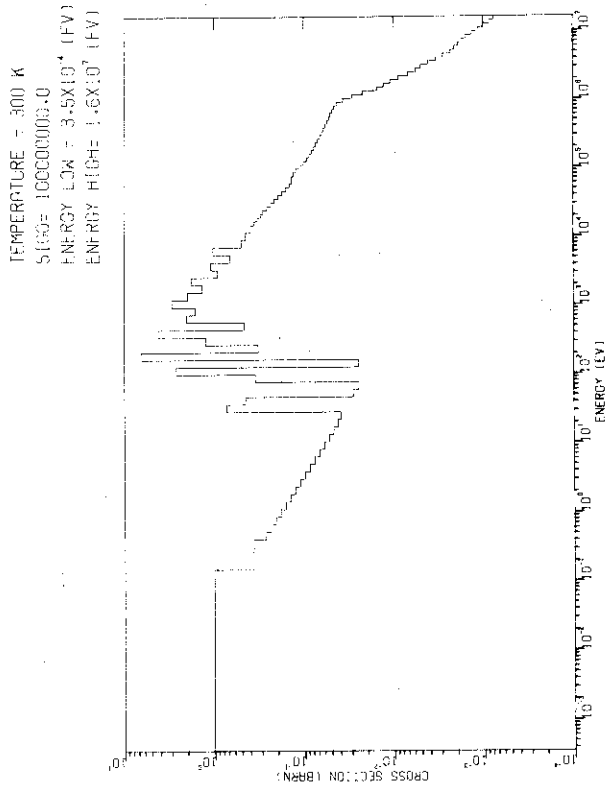


1189 NB FROM ENDF/B-IV ( 300K )

(N,C)

1189 NB FROM ENDF/B-IV ( 300K )

(N,P)

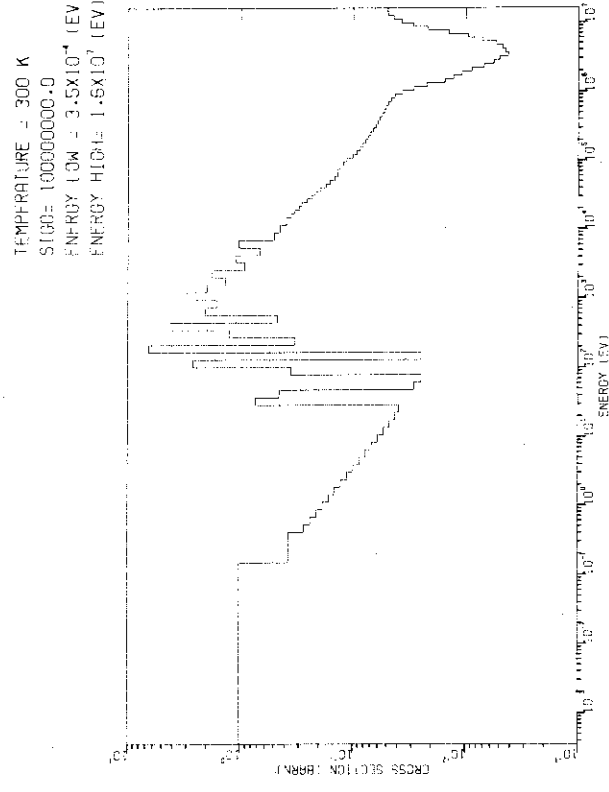
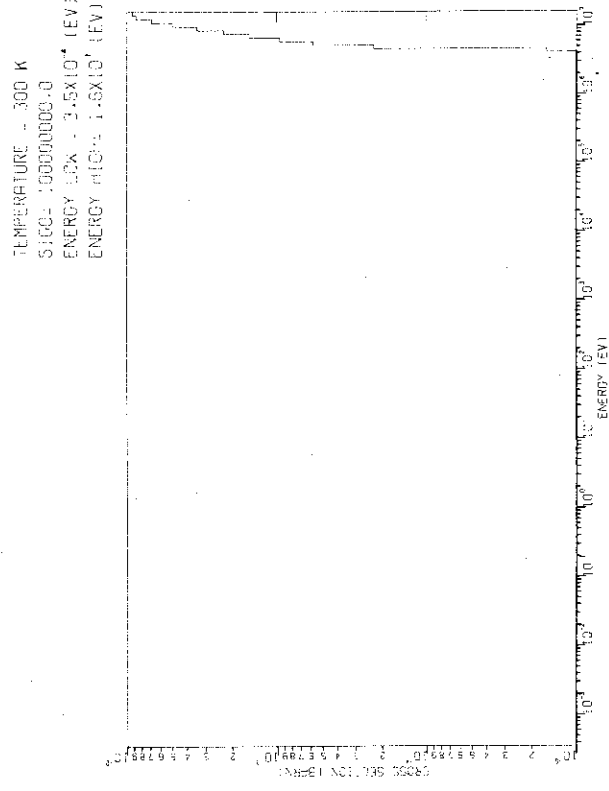


1189 NB FROM ENDF/B-IV ( 300K )

(N,P)

1189 NB FROM ENDF/B-IV ( 300K )

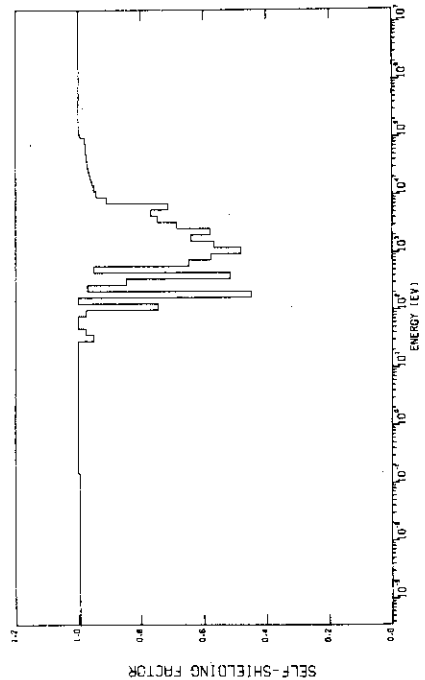
CAPTURE



1189 NB FROM ENDF/B-IV ( 300K )

TOTAL

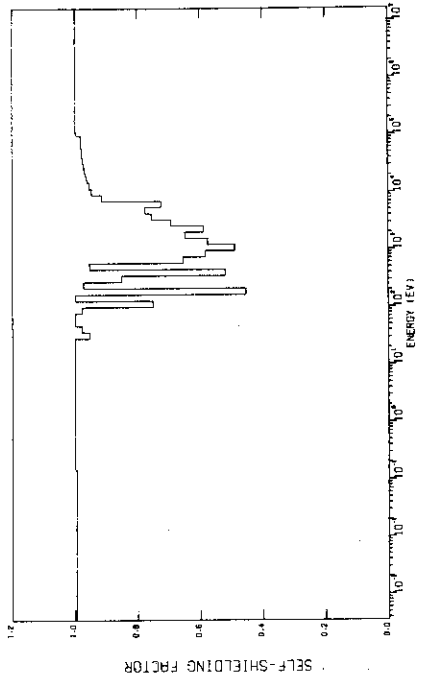
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

TOTAL

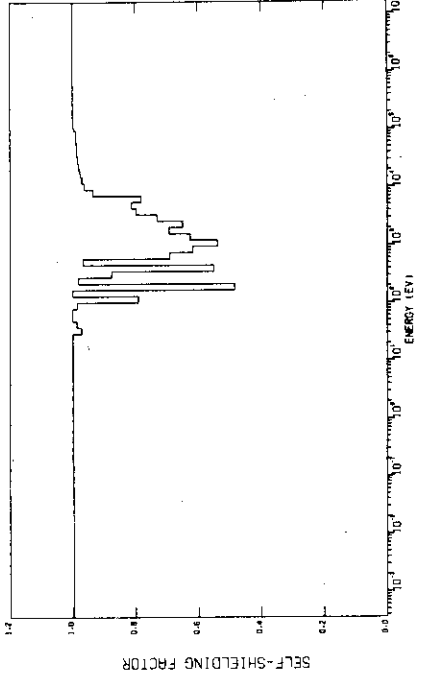
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

TOTAL

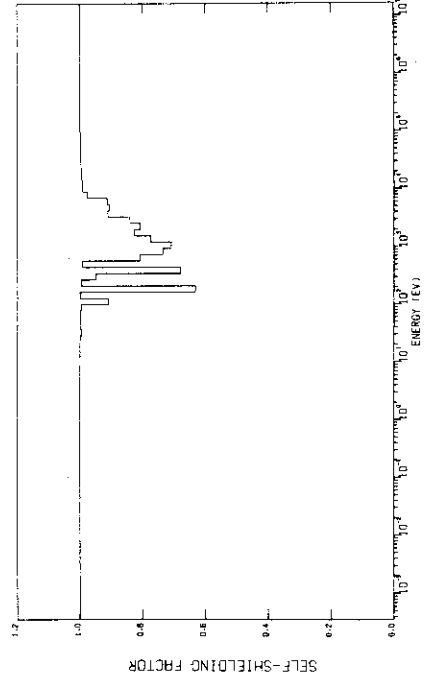
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

TOTAL

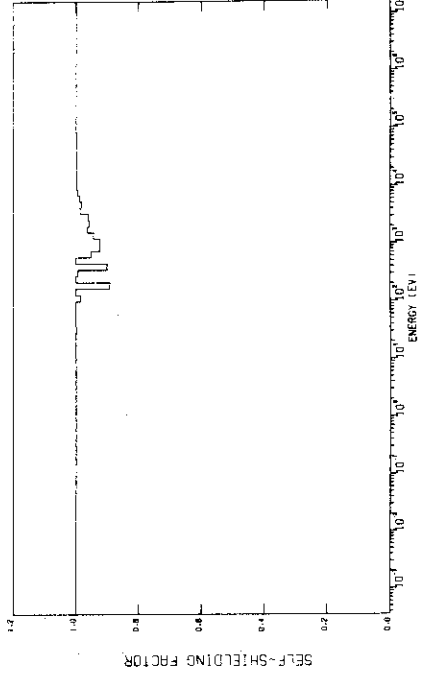
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

TOTAL

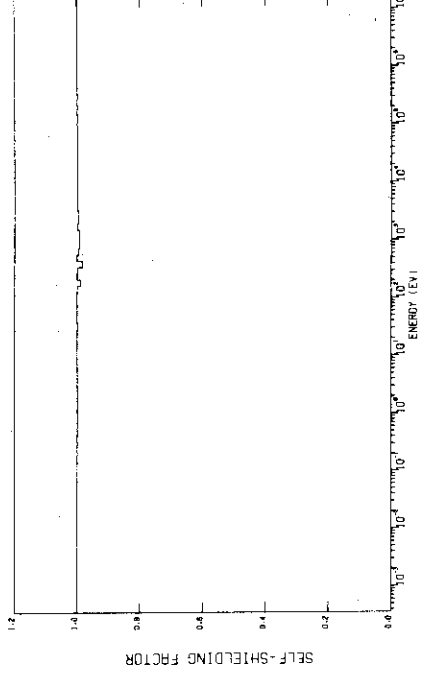
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

TOTAL

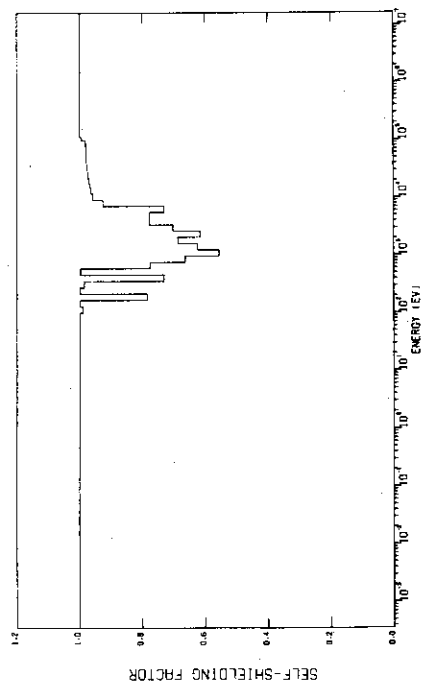
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

ELAS

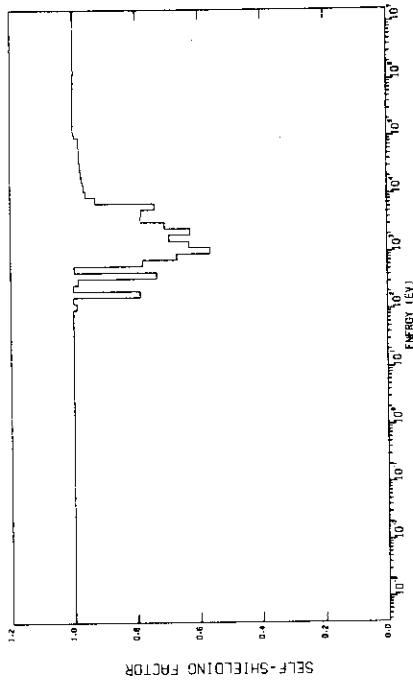
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

ELAS

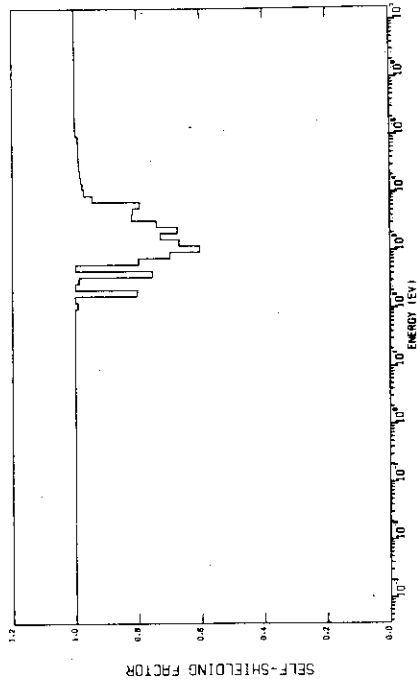
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

ELAS

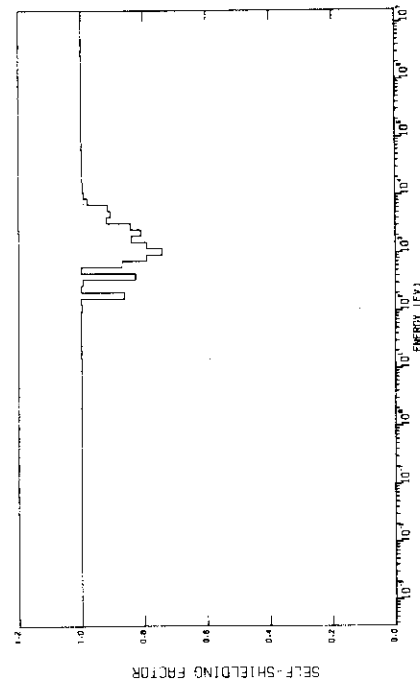
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

ELAS

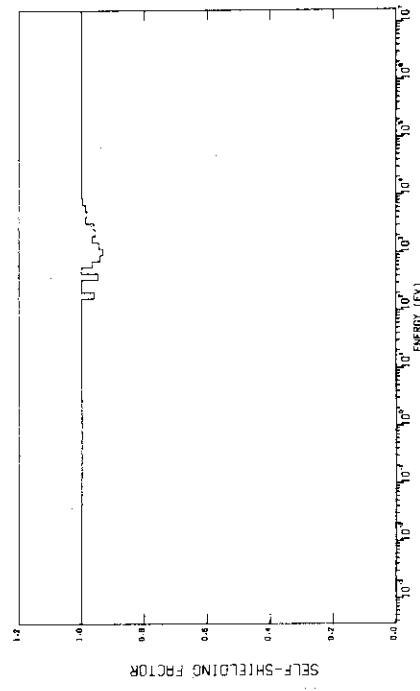
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

ELAS

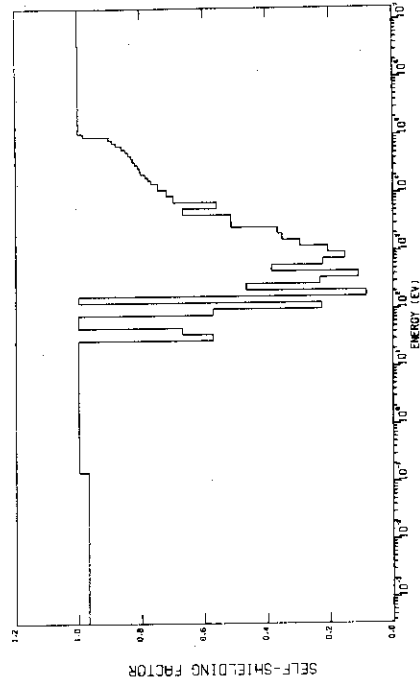
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

CAPTURE

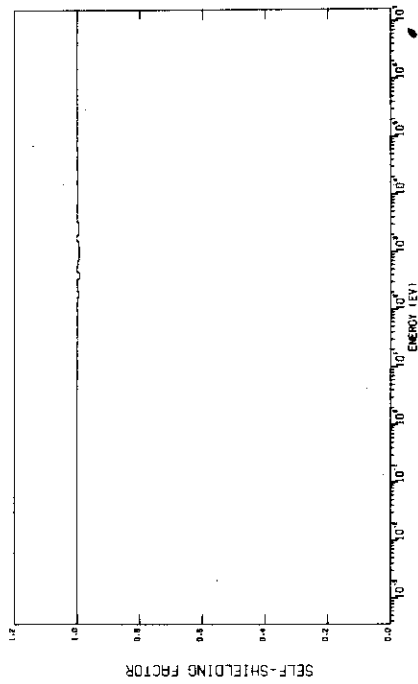
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

ELAS

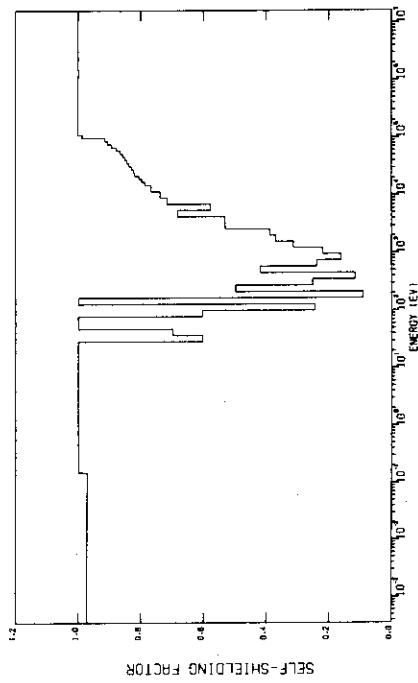
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1189 NB FROM ENDF/B-IV ( 300K )

CAPTURE

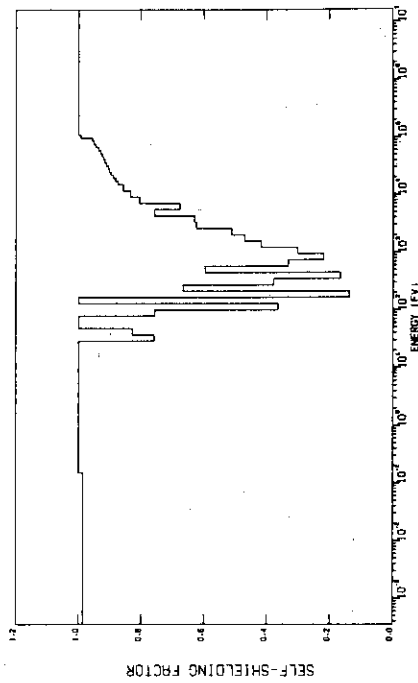
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1189 NB FROM ENDF/B-IV ( 300K )

CAPTURE

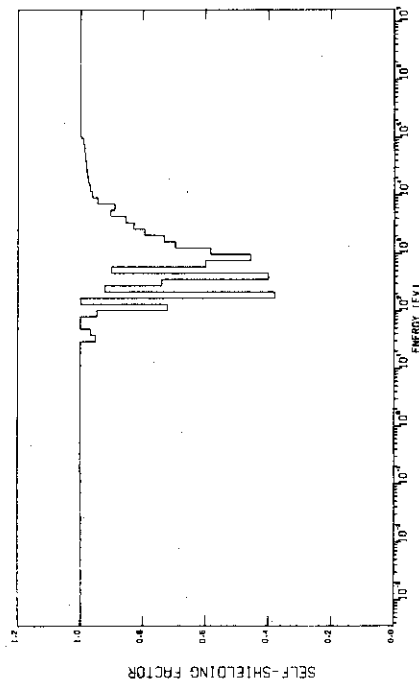
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1189 NB FROM ENDF/B-IV ( 300K )

CAPTURE

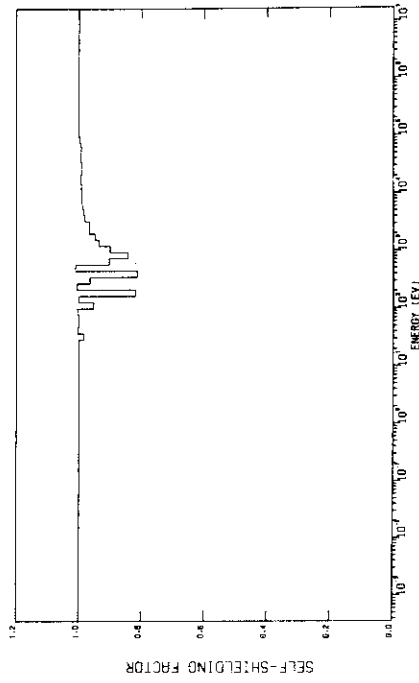
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1189 NB FROM ENDF/B-IV ( 300K )

CAPTURE

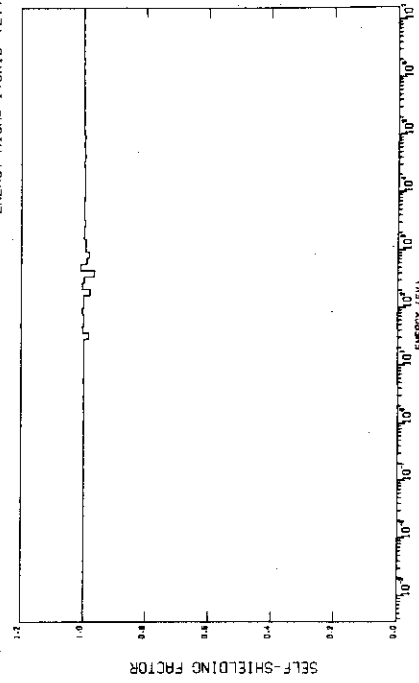
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1189 NB FROM ENDF/B-IV ( 300K )

CAPTURE

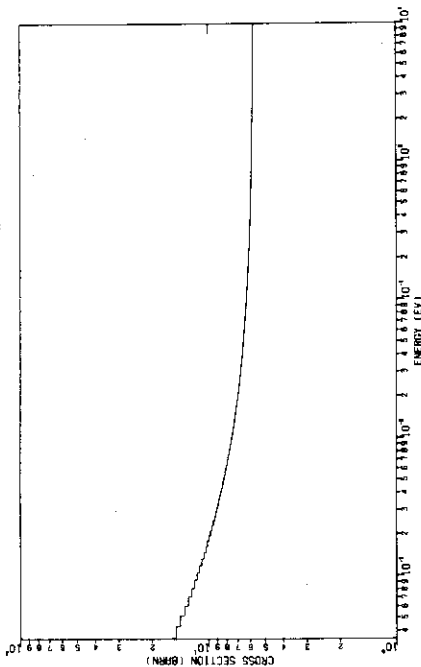
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1189 NB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

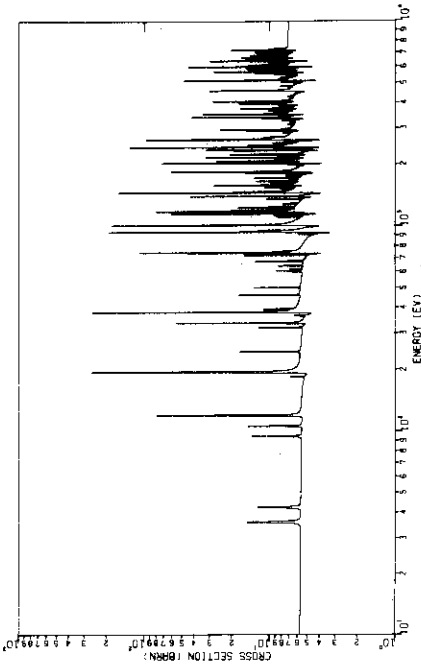
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

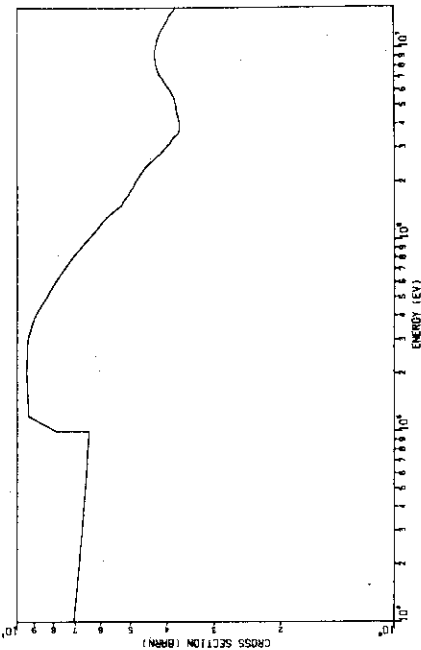
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

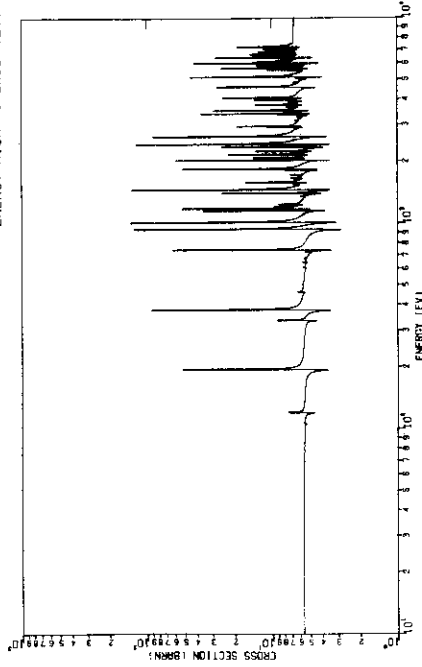
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

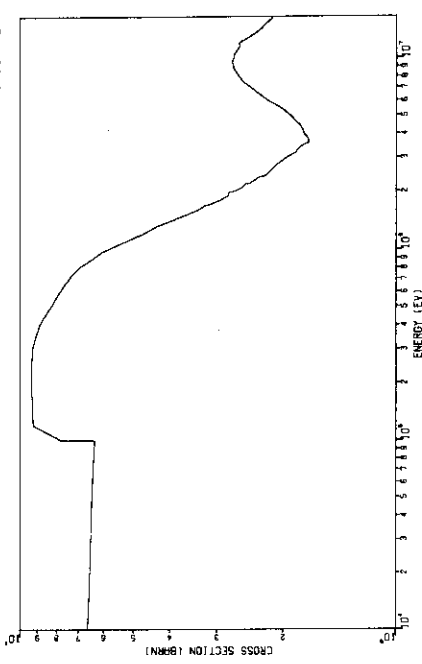
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

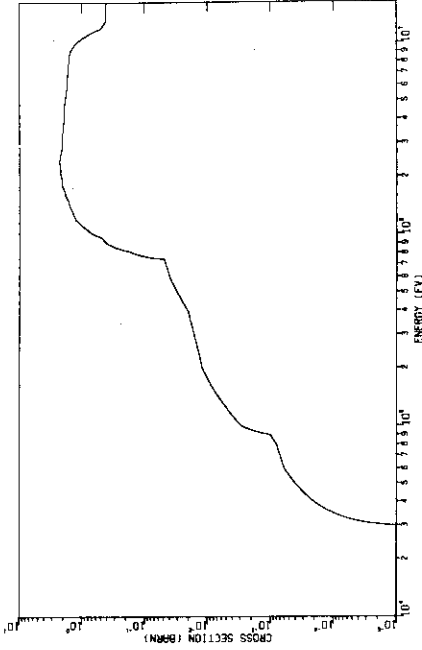
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 4

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)





1189 NB FROM ENDF/B-IV ( 300K )

1189 NB FROM ENDF/B-IV ( 300K )

1189 NB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 16

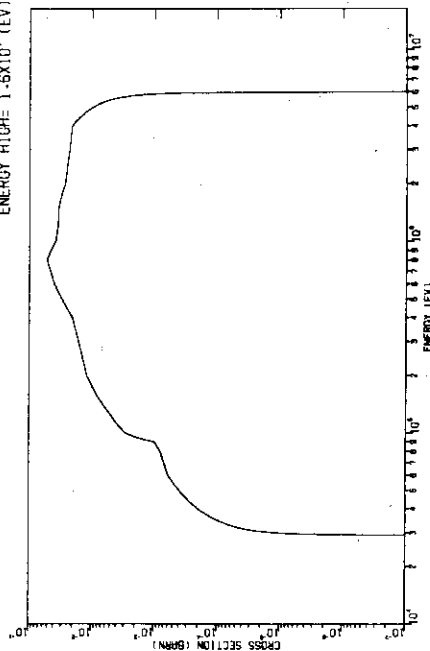
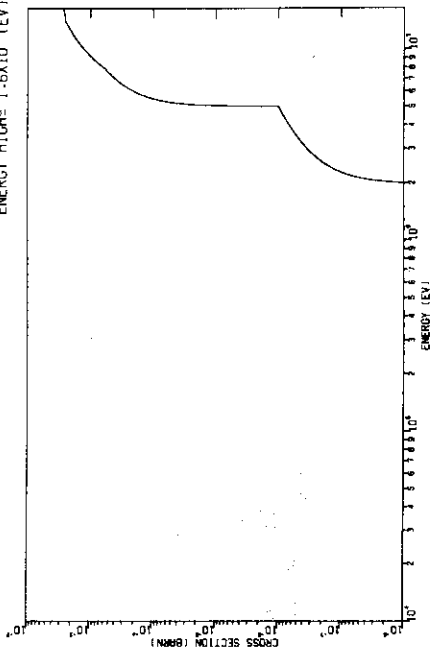
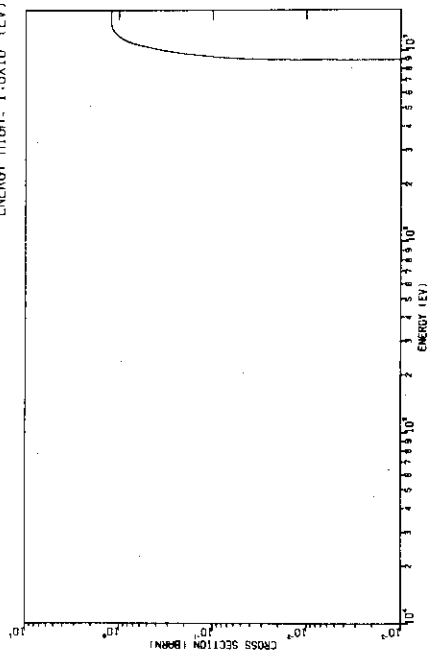
REACTION TYPE = 22

REACTION TYPE = 51

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1189 NB FROM ENDF/B-IV ( 300K )

1189 NB FROM ENDF/B-IV ( 300K )

1189 NB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 52

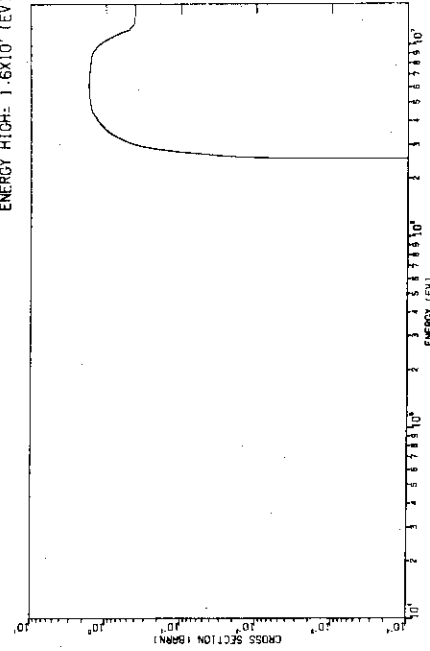
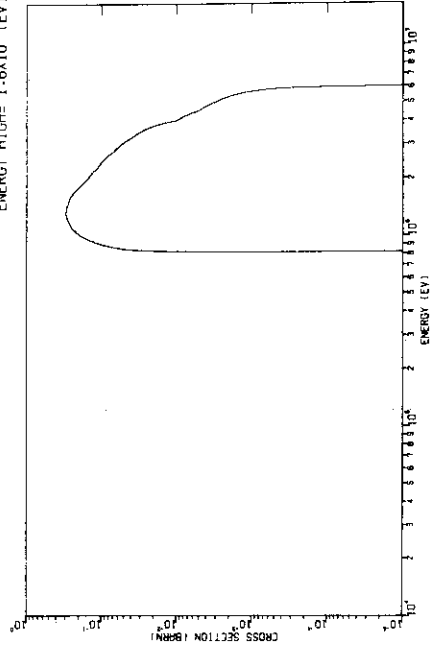
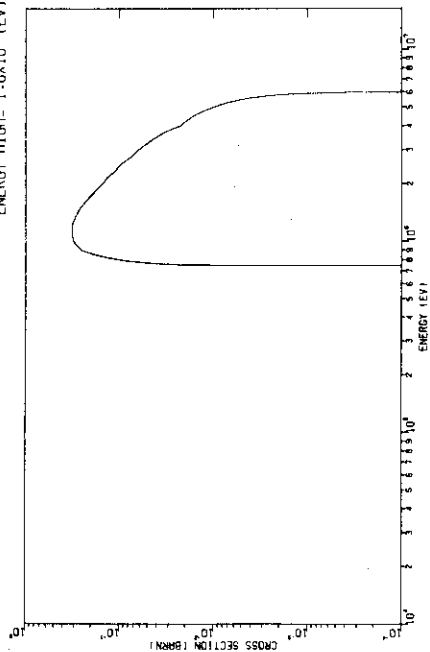
REACTION TYPE = 53

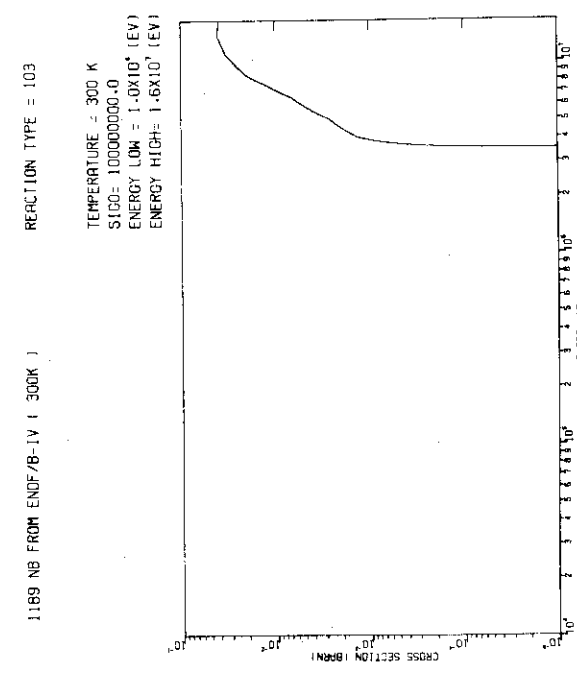
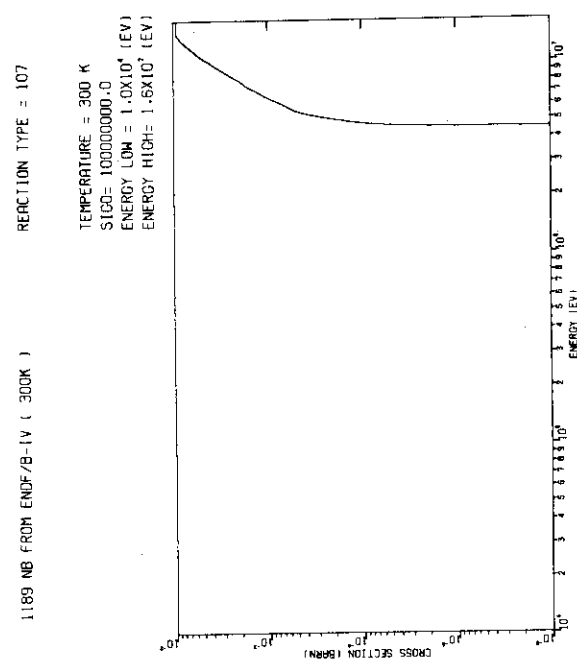
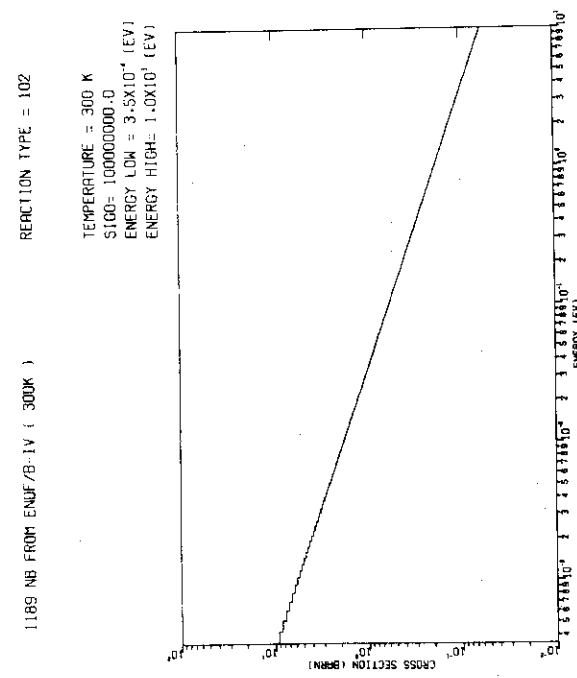
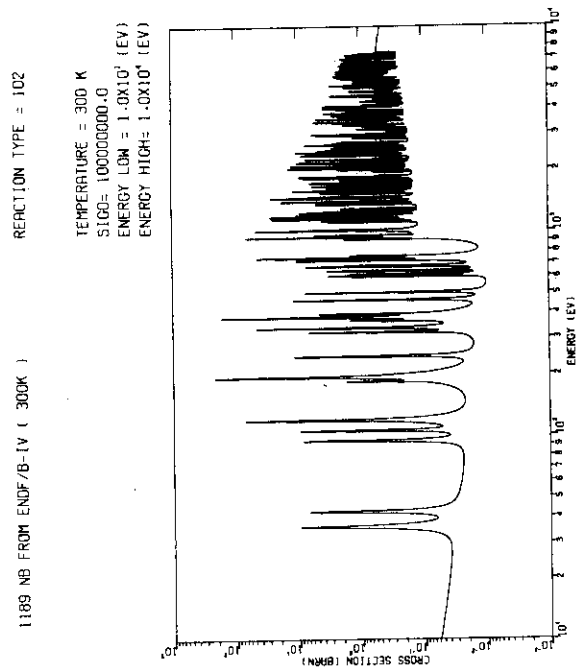
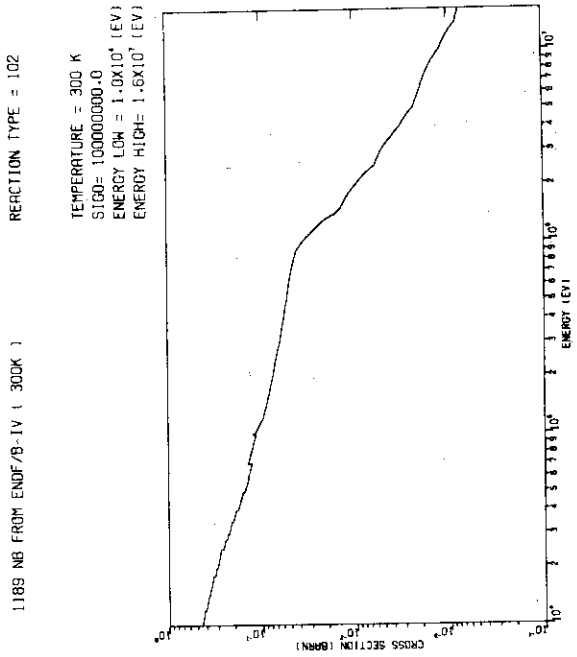
REACTION TYPE = 51

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

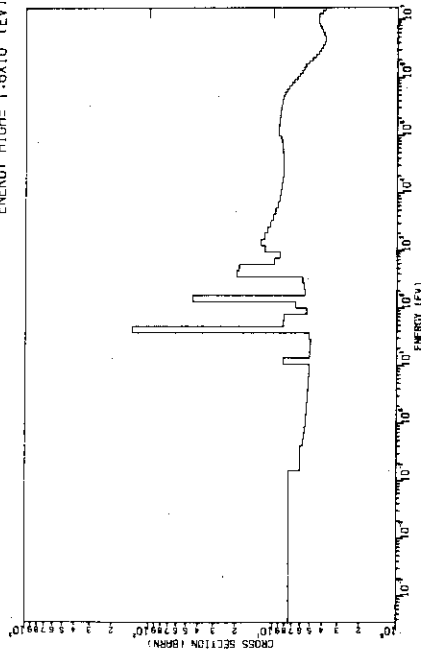




1287 MO FROM ENDF/B-IV ( 300K )

TOTAL

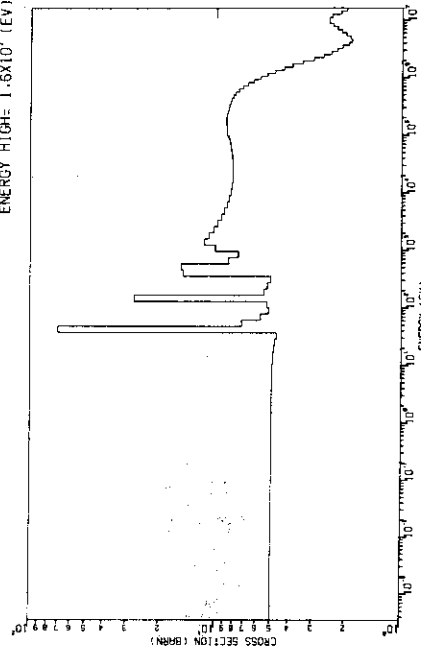
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

ELAS

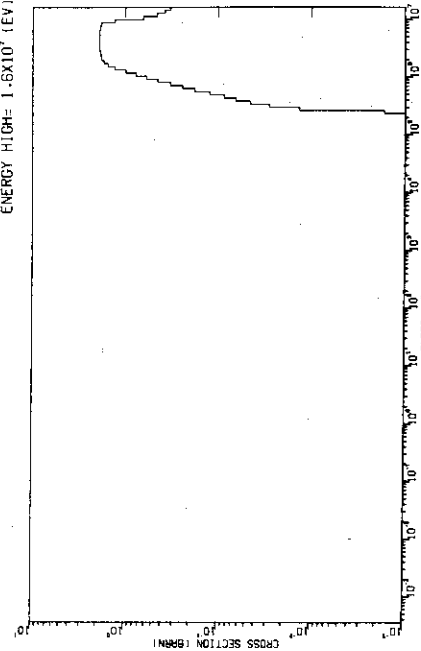
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

INELAS

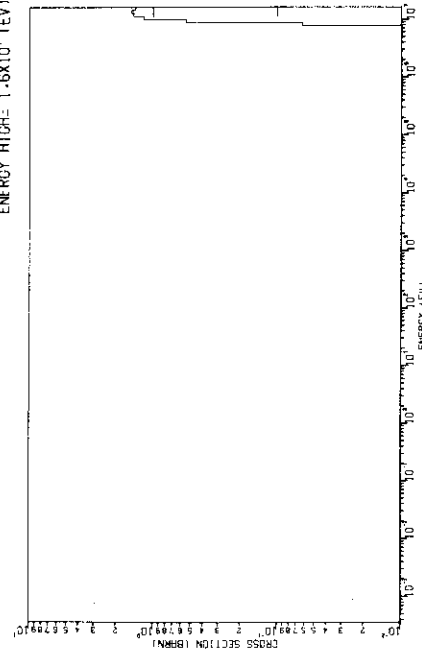
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

(N,2N)

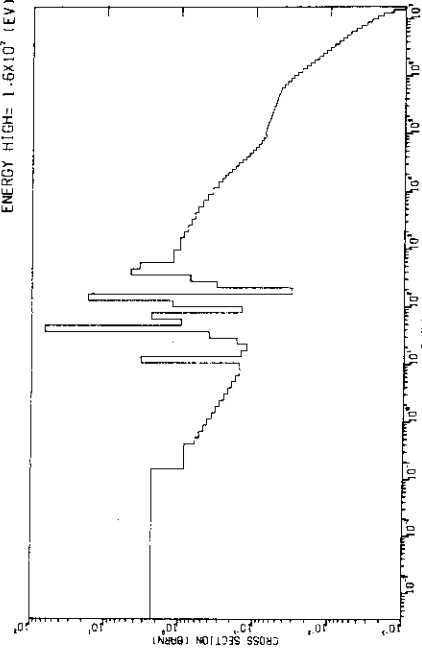
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

(N,G)

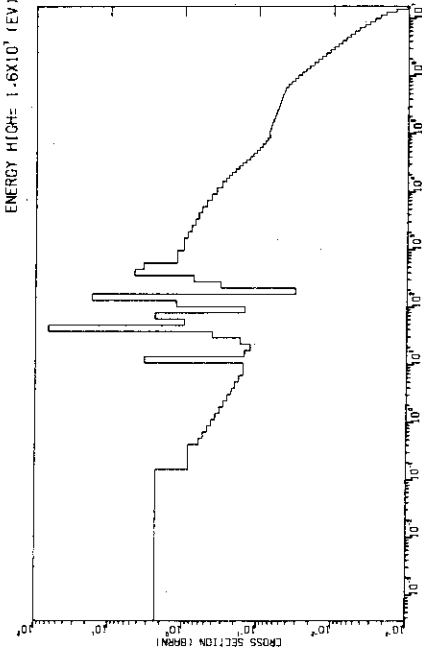
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

CAPTURE

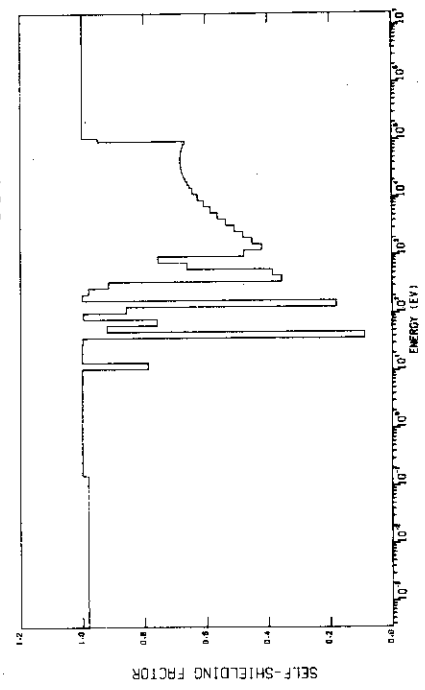
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MD FROM ENDF/B-IV ( 300K )

TOTAL

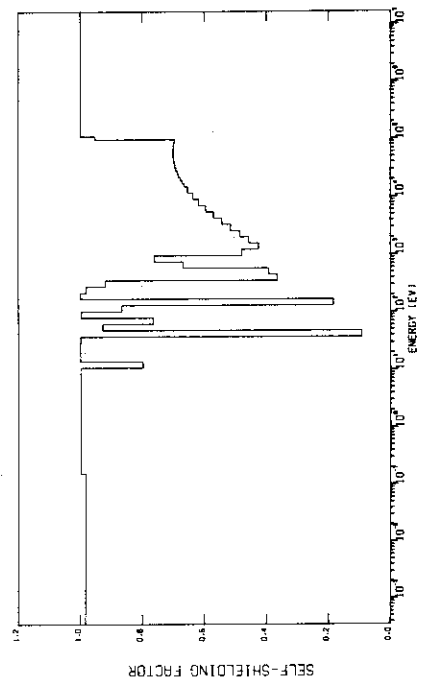
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MD FROM ENDF/B-IV ( 300K )

TOTAL

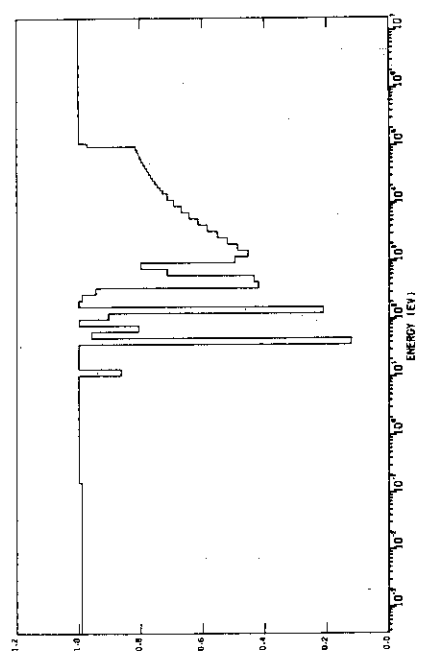
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MD FROM ENDF/B-IV ( 300K )

TOTAL

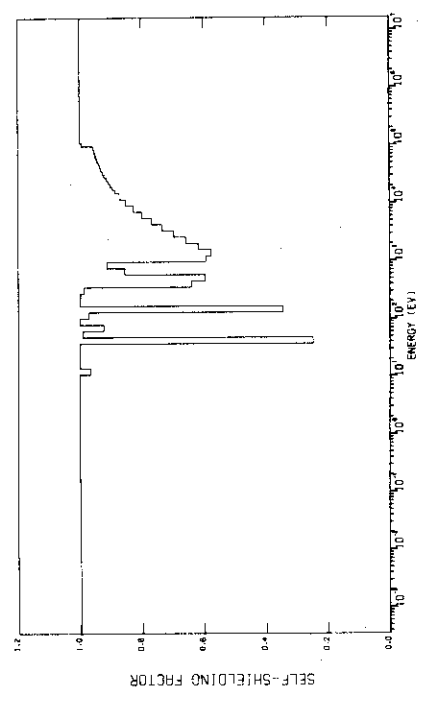
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MD FROM ENDF/B-IV ( 300K )

TOTAL

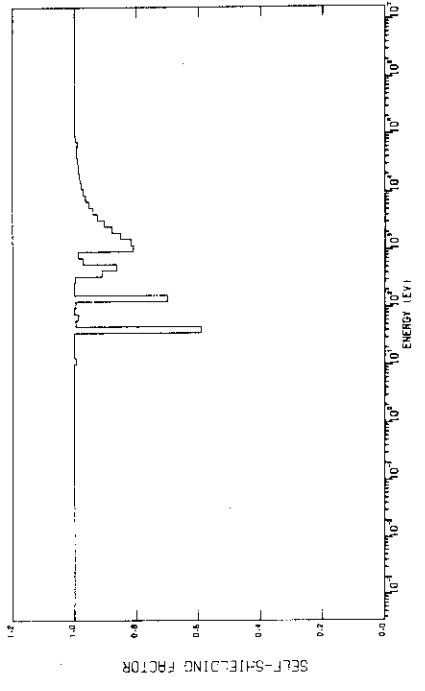
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MD FROM ENDF/B-IV ( 300K )

TOTAL

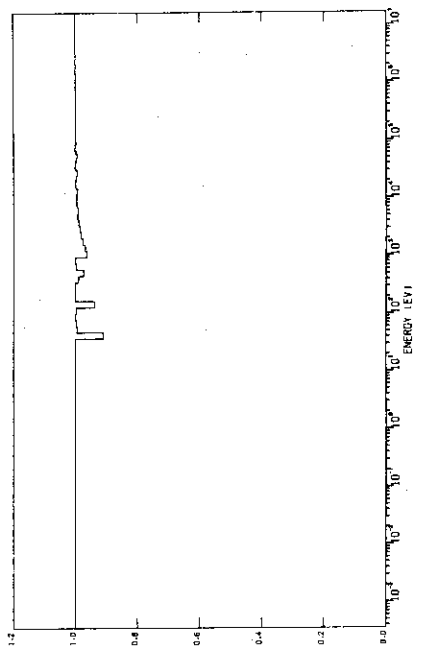
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MD FROM ENDF/B-IV ( 300K )

TOTAL

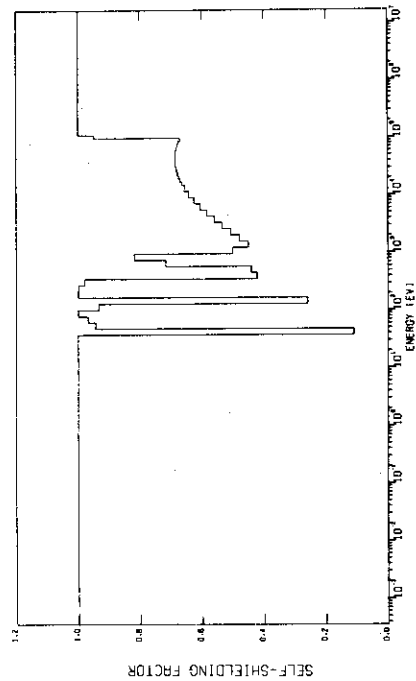
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

ELRS

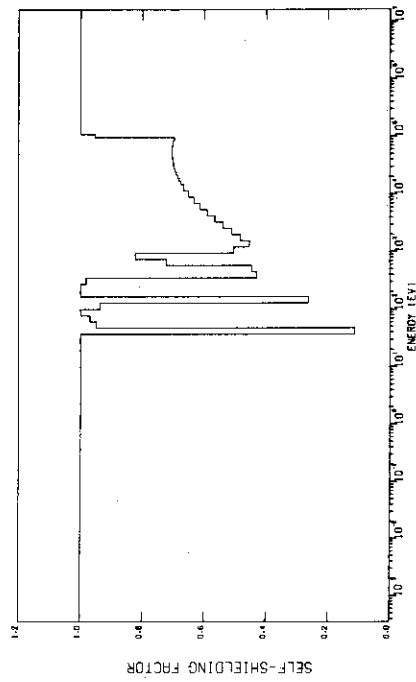
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

ELRS

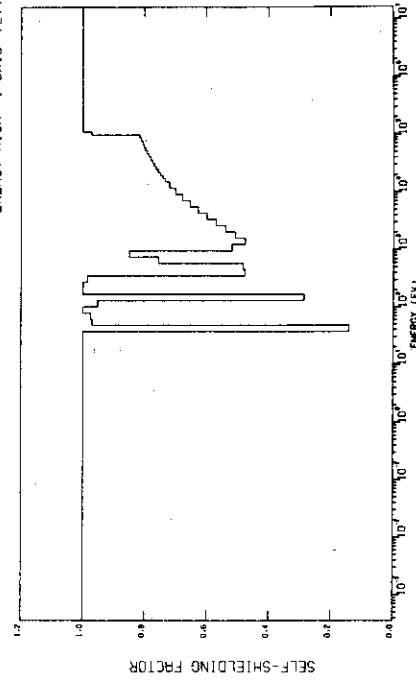
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

ELRS

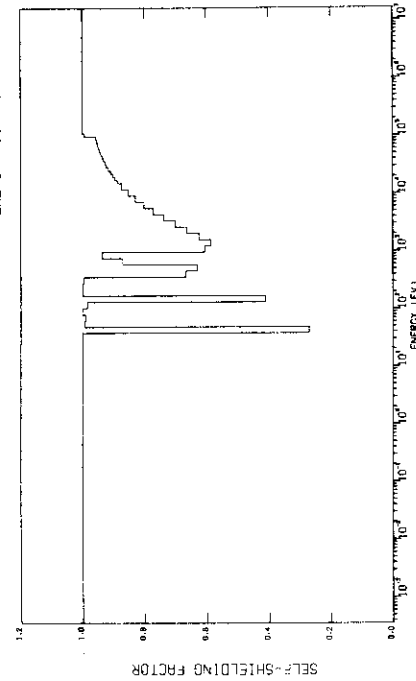
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B IV ( 300K )

ELRS

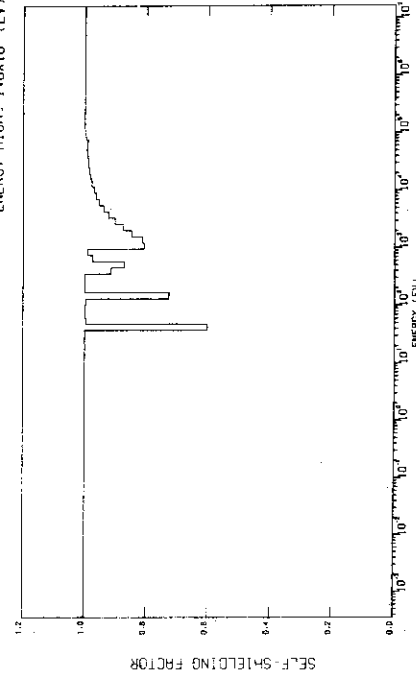
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

ELRS

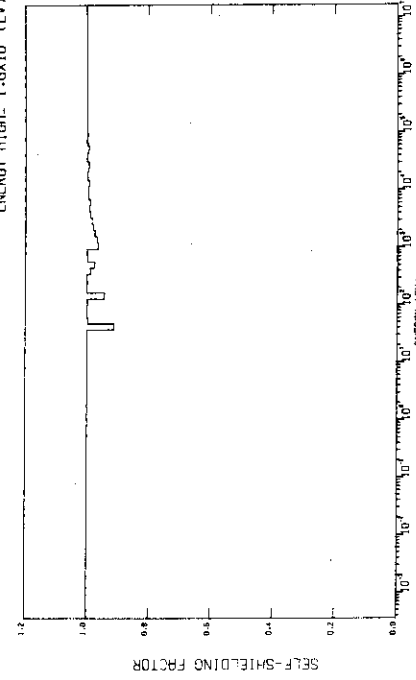
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

ELRS

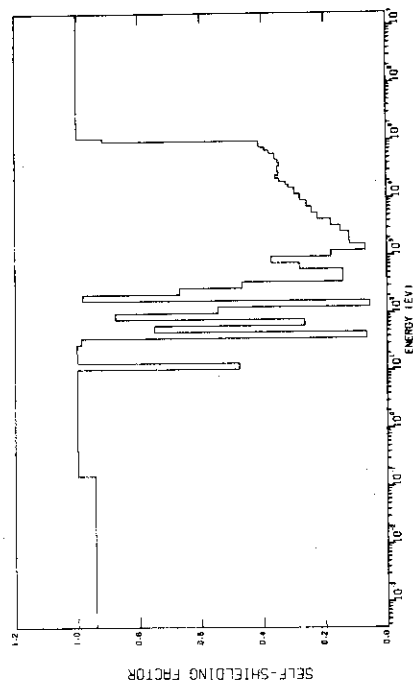
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

CAPTURE

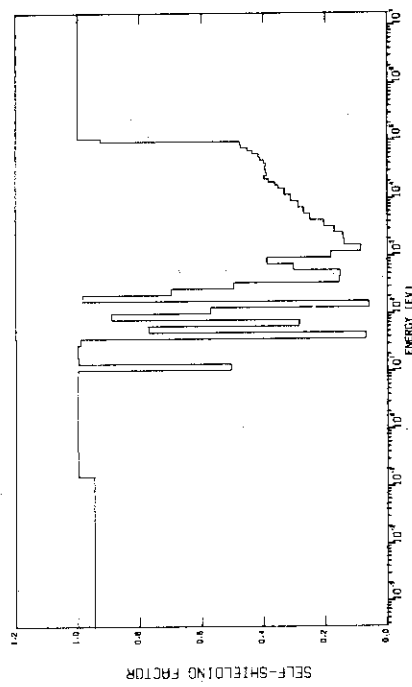
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

CAPTURE

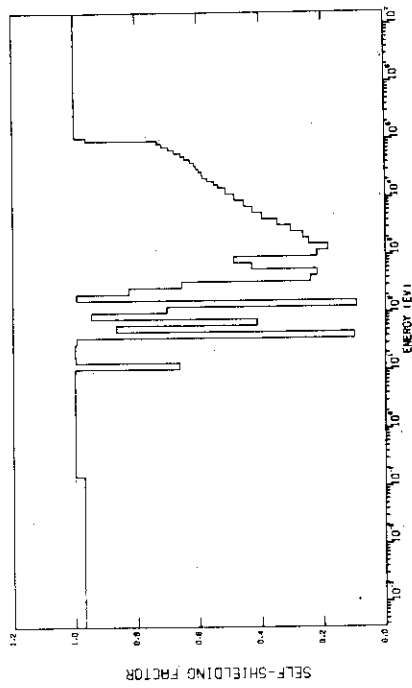
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

CAPTURE

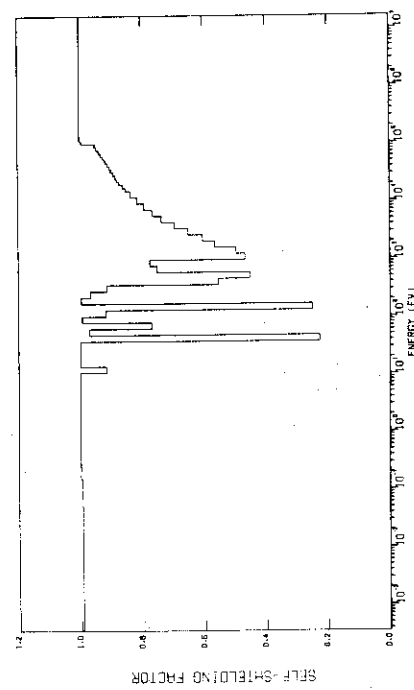
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

CAPTURE

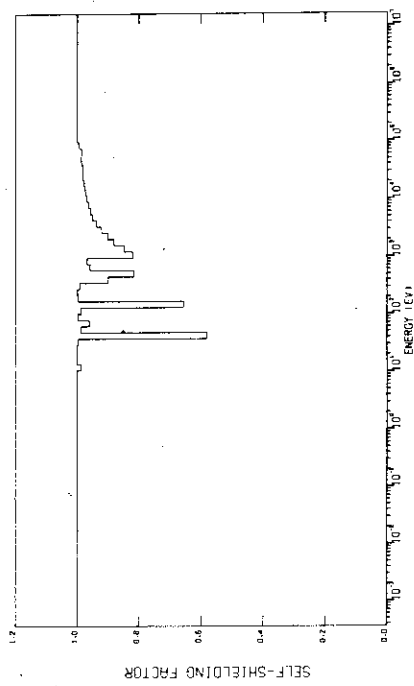
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

CAPTURE

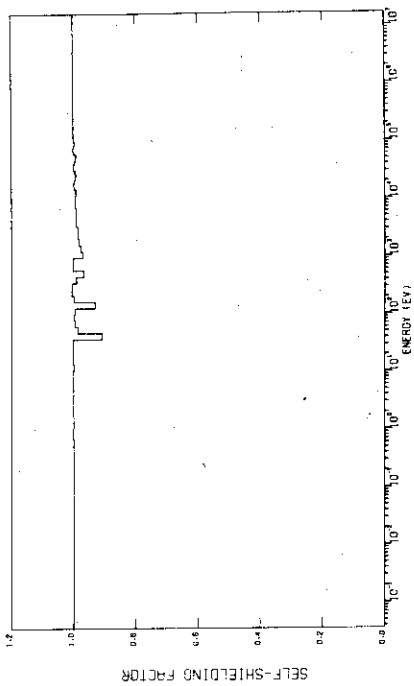
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV ( 300K )

CAPTURE

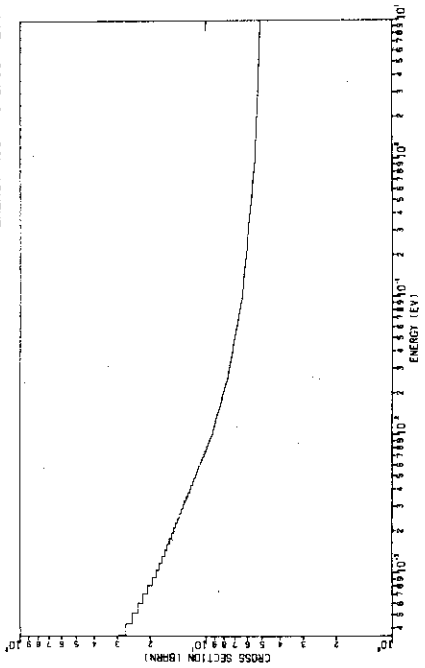
TEMPERATURE = 300 K  
SIG0= 100000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 1

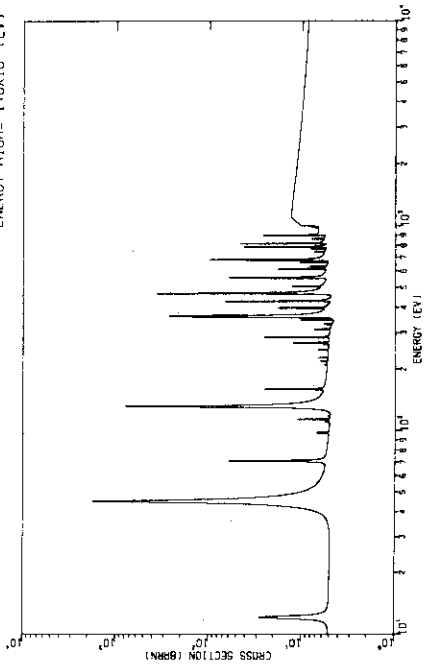
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 1

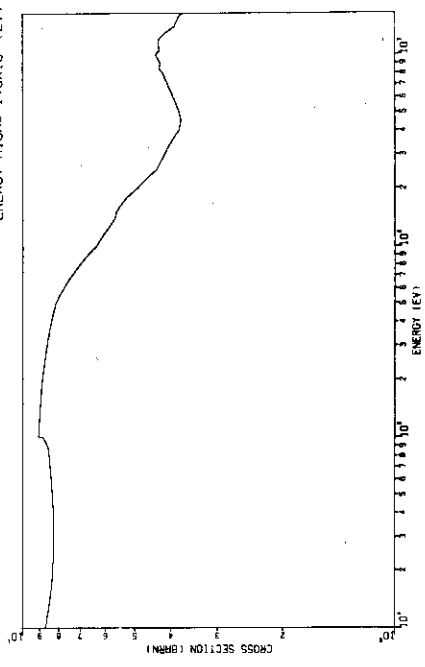
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 1

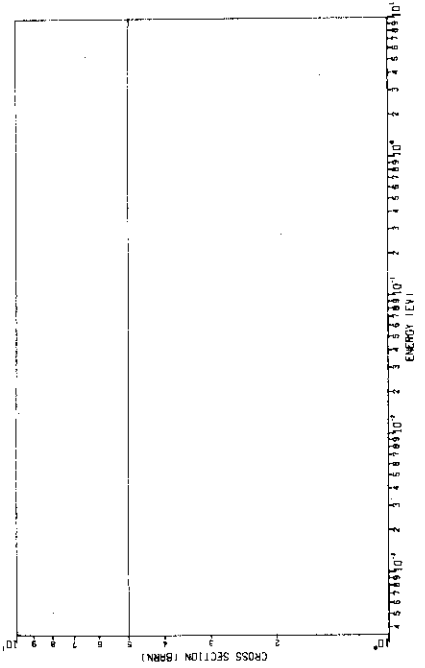
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 2

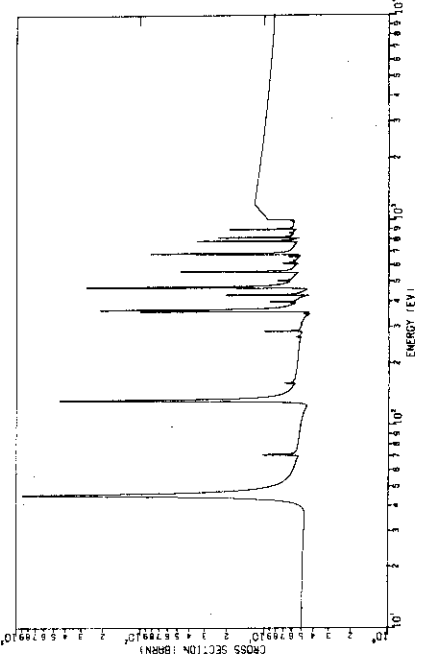
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 2

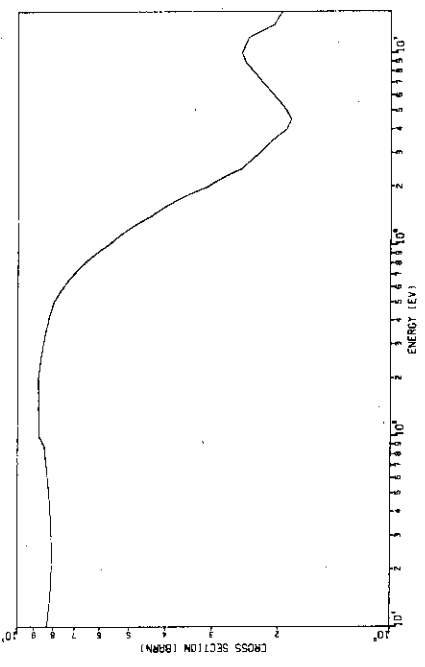
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 2

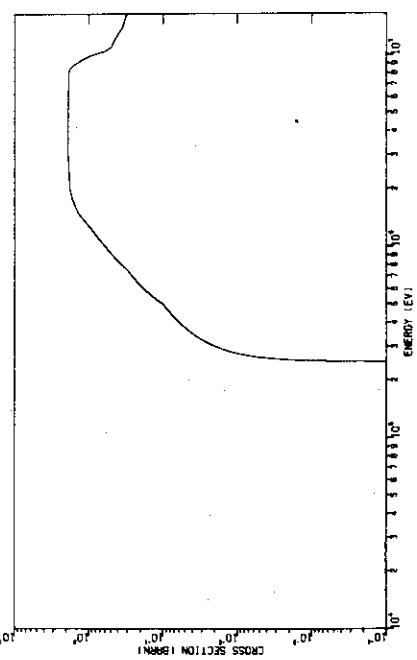
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 4

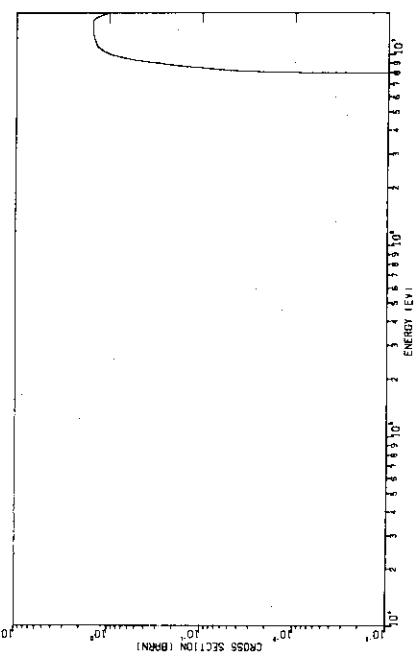
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 16

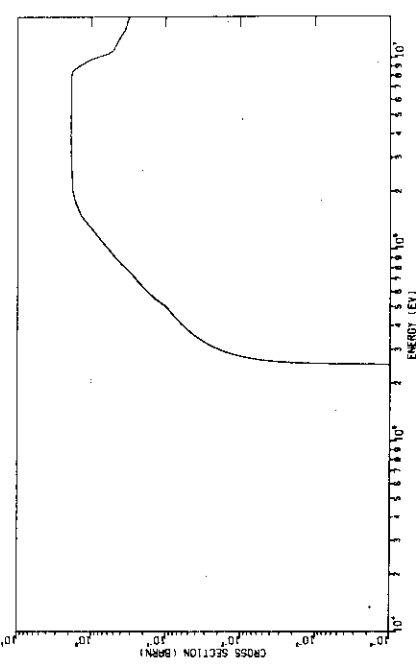
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 91

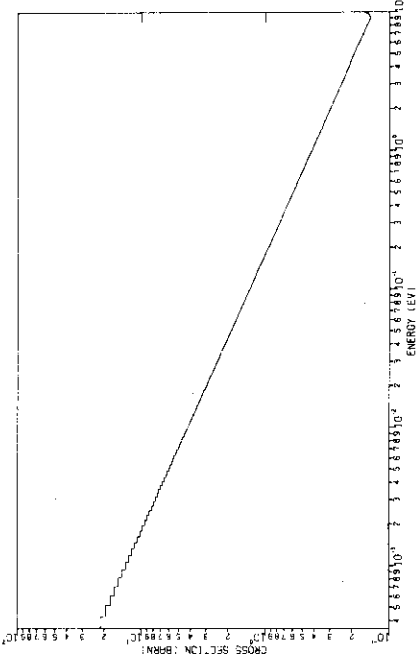
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 102

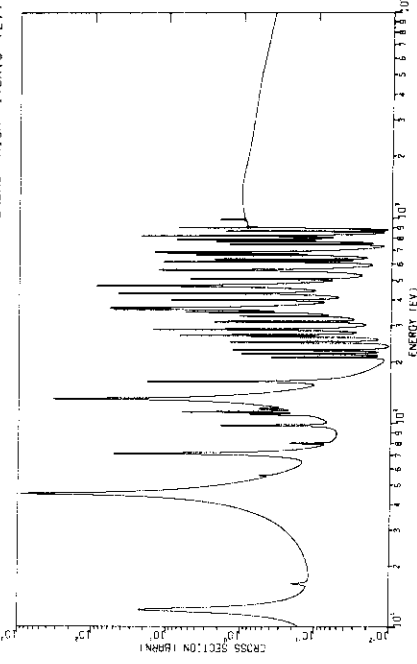
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 102

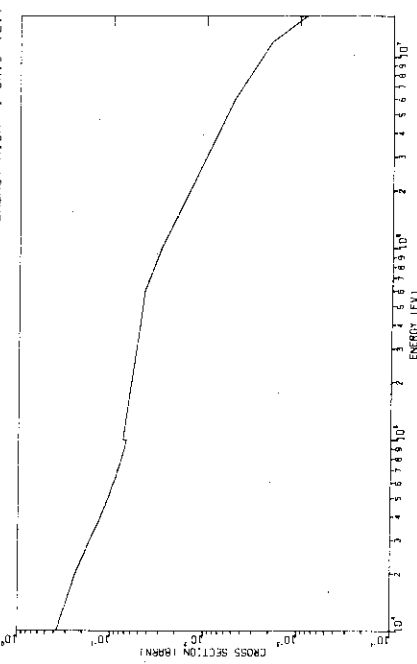
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1287 MO FROM ENDF/B-IV

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

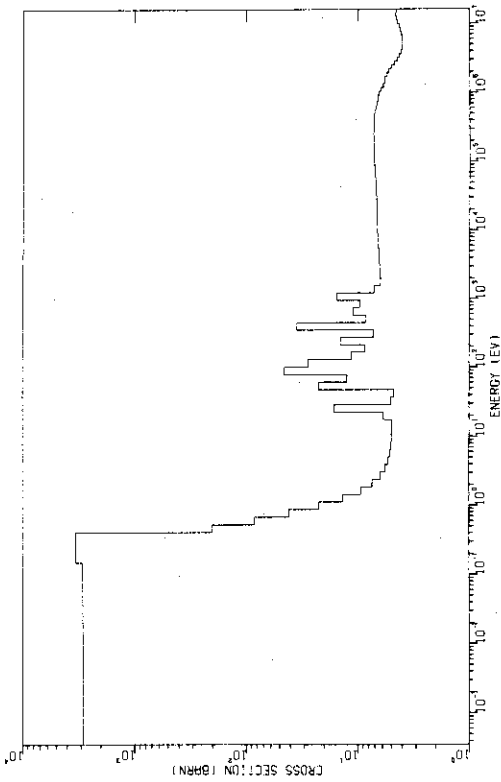




1281 CD FROM ENDF/B-IV ( 300K )

TOTAL

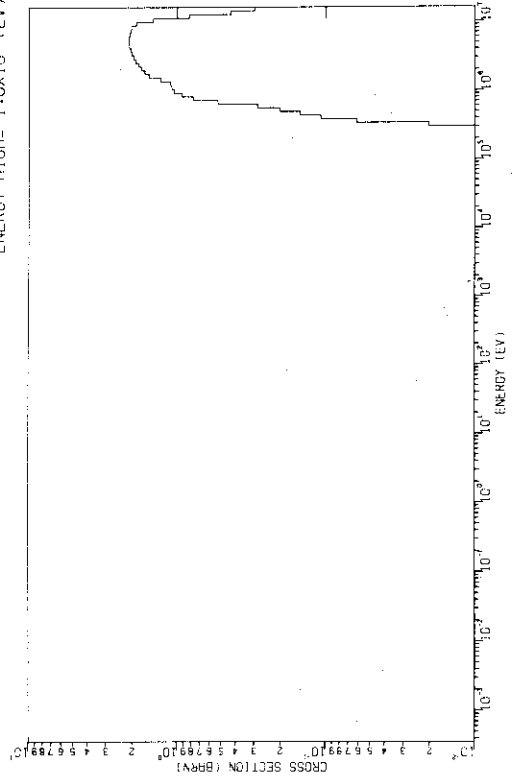
TEMPERATURE = 300 K  
SICO = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1281 CD FROM ENDF/B-IV ( 300K )

INELAS

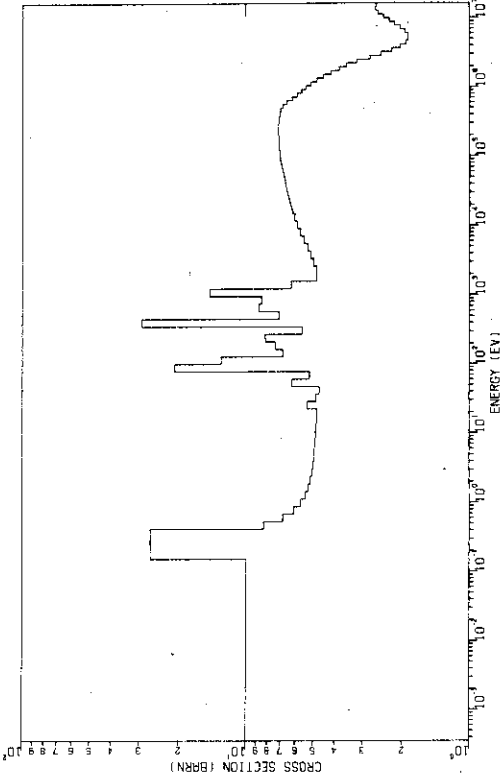
TEMPERATURE = 300 K  
SICO = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1281 CD FROM ENDF/B-IV ( 300K )

ELAS

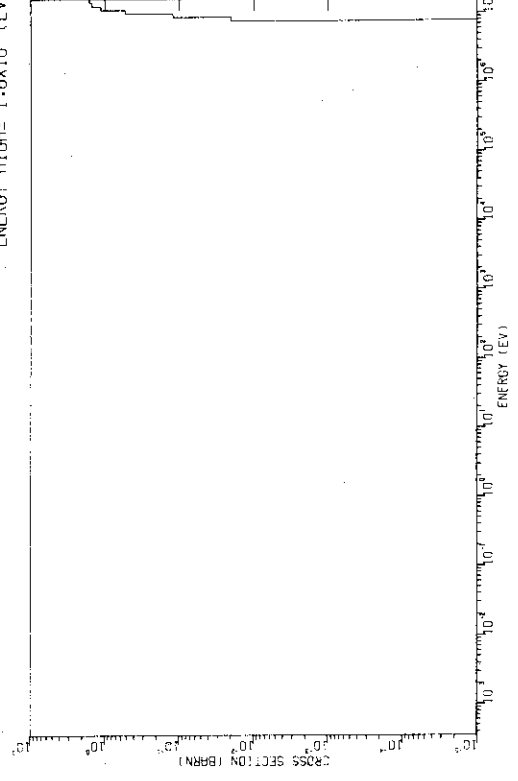
TEMPERATURE = 300 K  
SICO = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1281 CD FROM ENDF/B-IV ( 300K )

(N,2N)

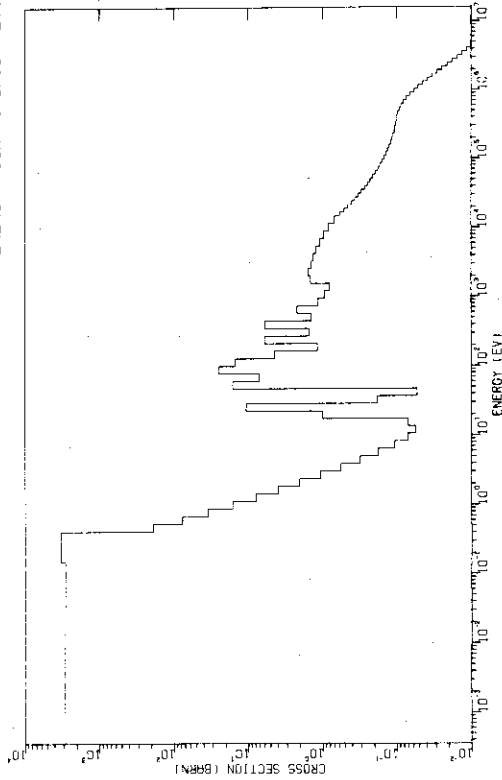
TEMPERATURE = 300 K  
SICO = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1281 CD FROM ENDF/B-IV ( 300K )

( N.P )

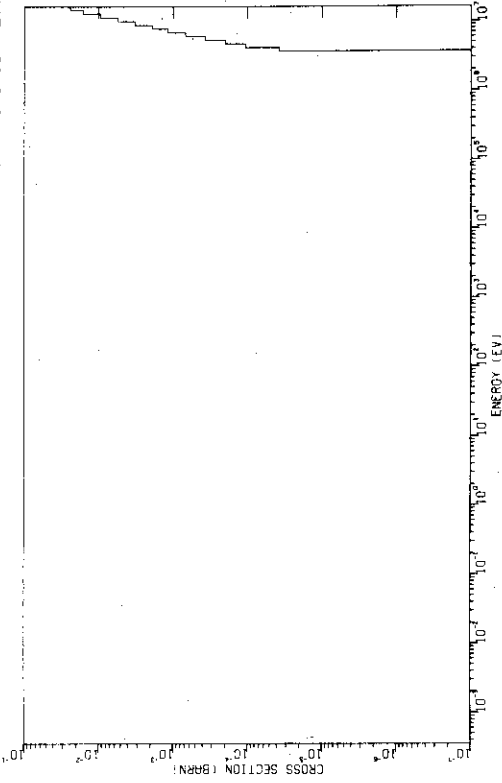
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV ( 300K )

( N.P )

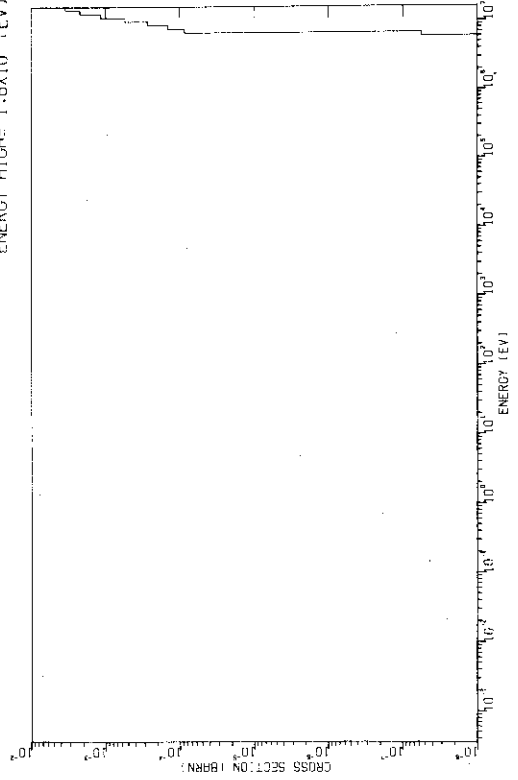
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV ( 300K )

( N.P )

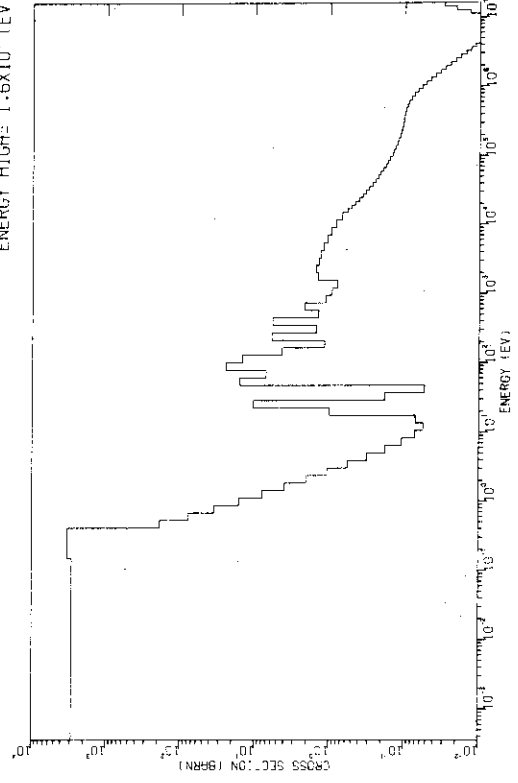
TEMPERATURE = 300 K  
SIGO= 100000090  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV ( 300K )

CAPTURE

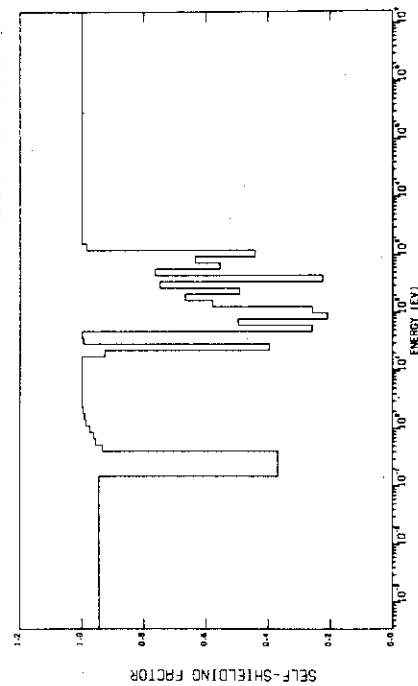
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV ( 300K )

TOTAL

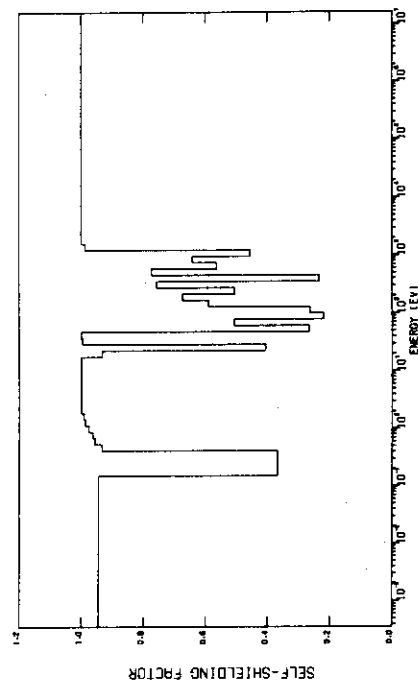
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV ( 300K )

TOTAL

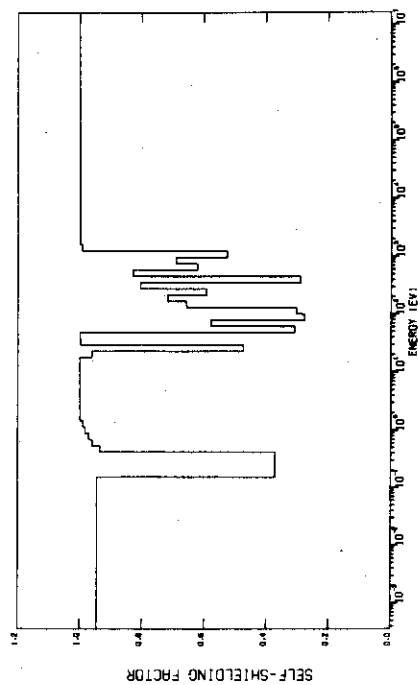
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV ( 300K )

TOTAL

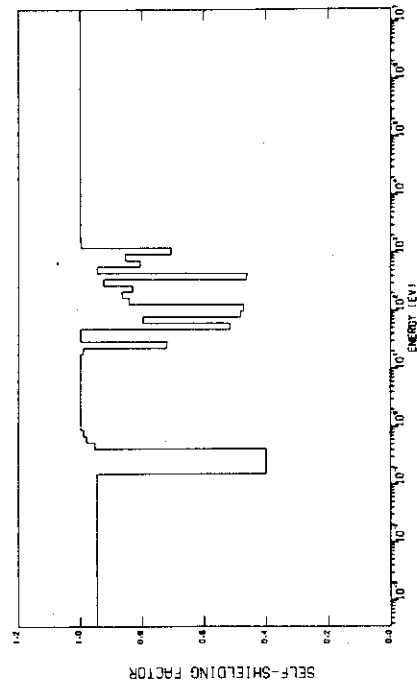
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV ( 300K )

TOTAL

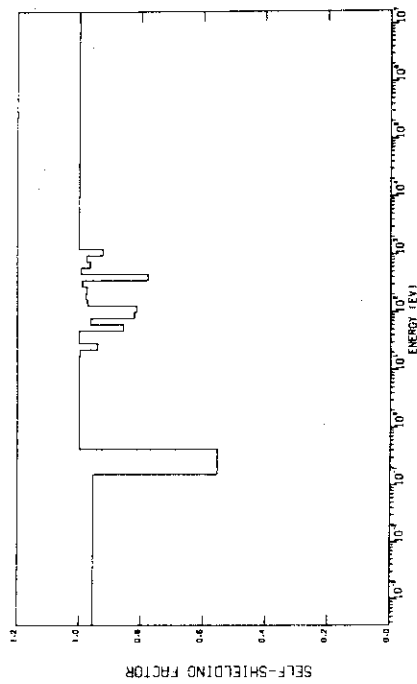
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV ( 300K )

TOTAL

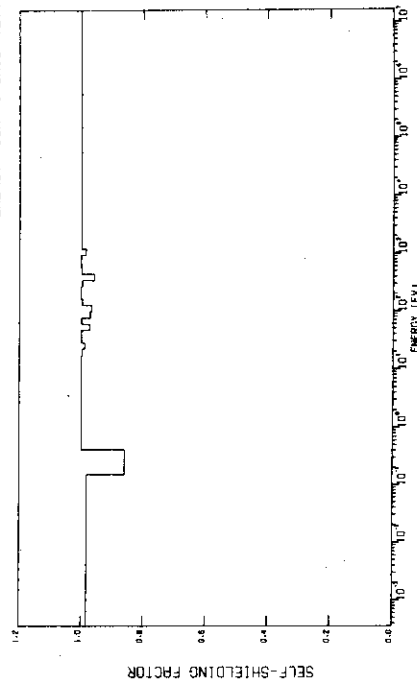
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV ( 300K )

TOTAL

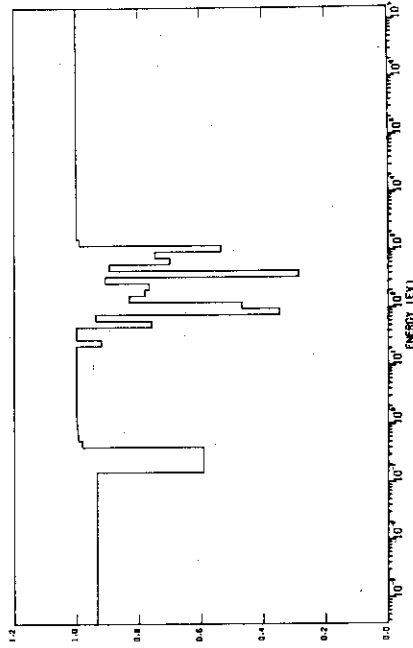
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



ELAS

1281 CD FROM ENDF/B-IV ( 300K )

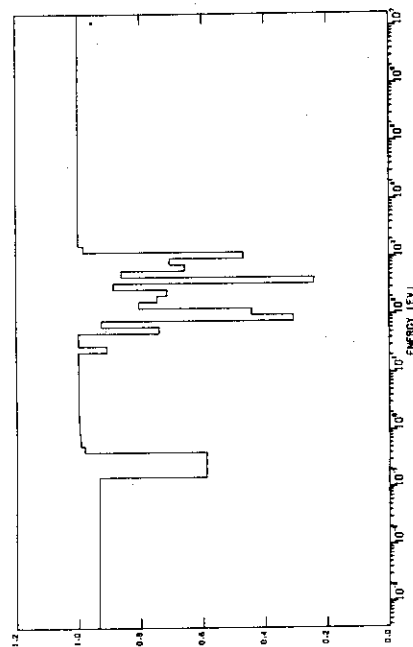
TEMPERATURE = 300 K  
SIG0 = -10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



ELAS

1281 CD FROM ENDF/B-IV ( 300K )

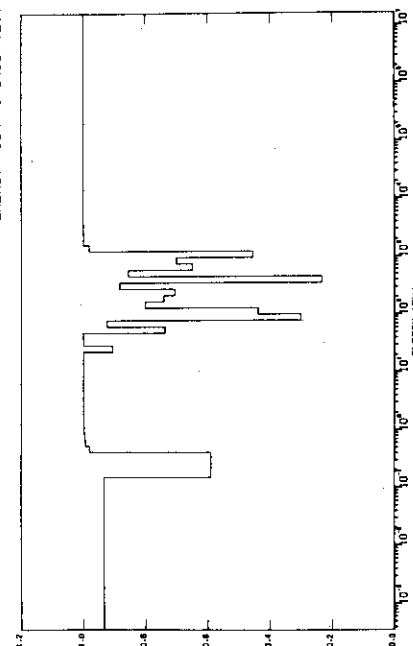
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



ELAS

1281 CD FROM ENDF/B-IV ( 300K )

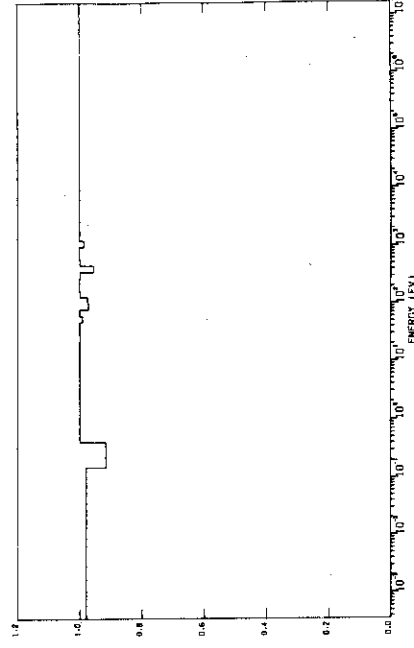
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



ELAS

1281 CD FROM ENDF/B-IV ( 300K )

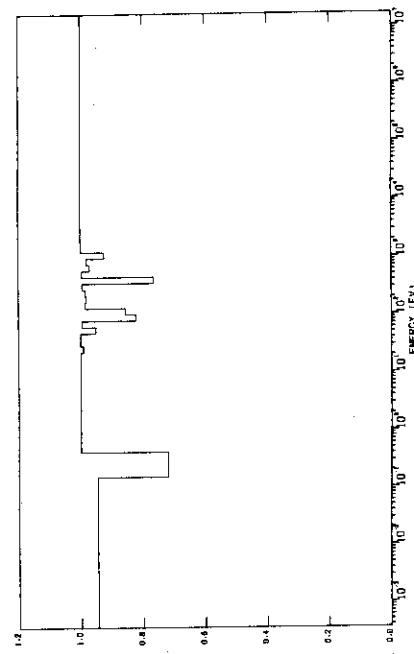
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



ELAS

1281 CD FROM ENDF/B-IV ( 300K )

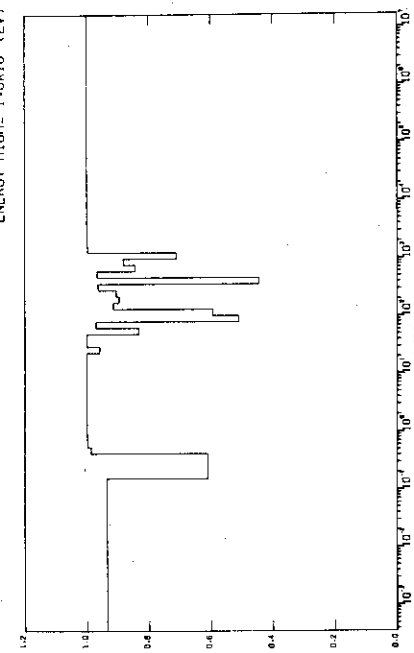
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



ELAS

1281 CD FROM ENDF/B-IV ( 300K )

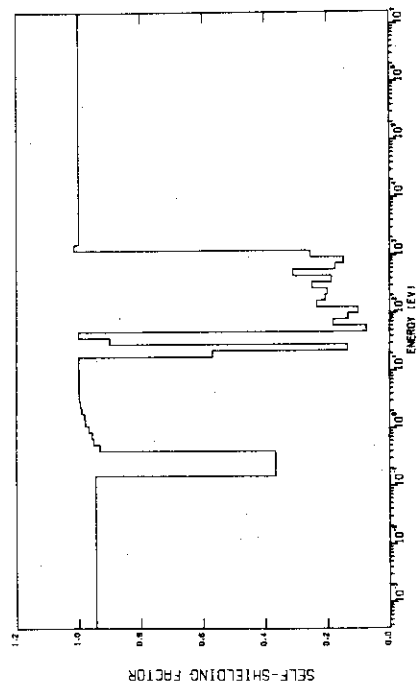
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-IV ( 300K )

CAPTURE

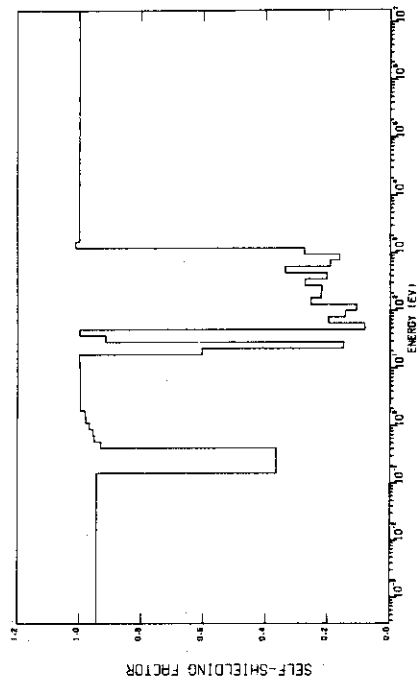
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-IV ( 300K )

CAPTURE

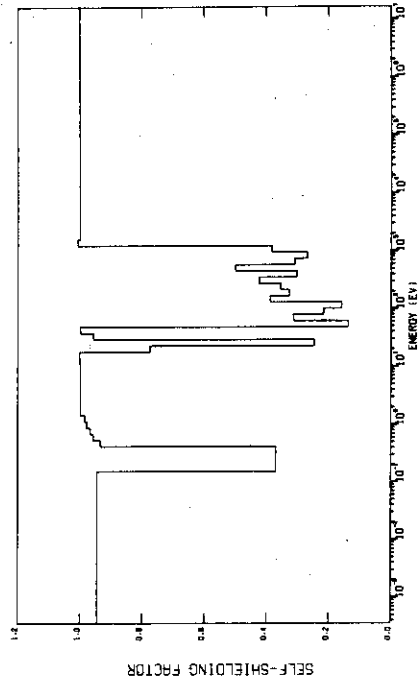
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-IV ( 300K )

CAPTURE

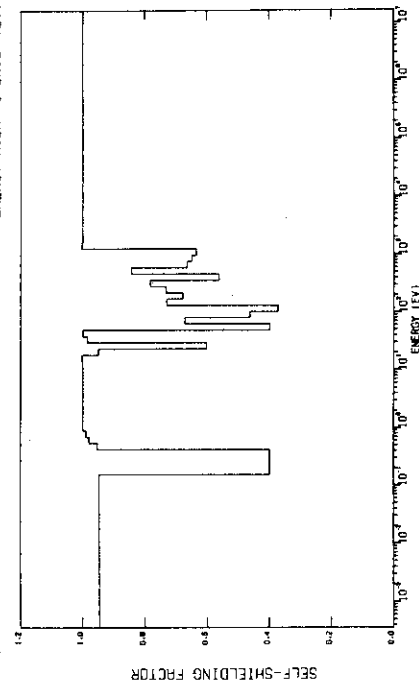
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-IV ( 300K )

CAPTURE

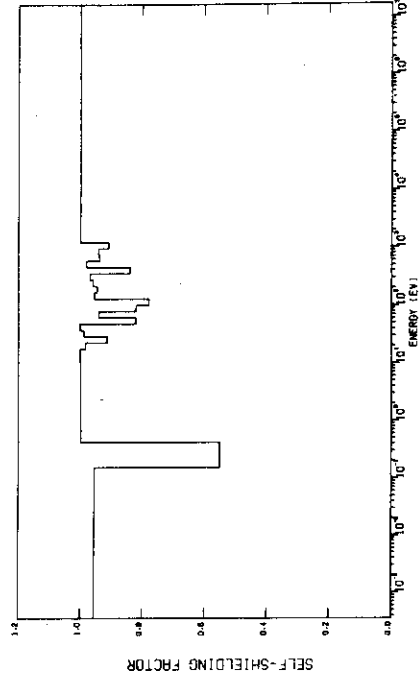
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-IV ( 300K )

CAPTURE

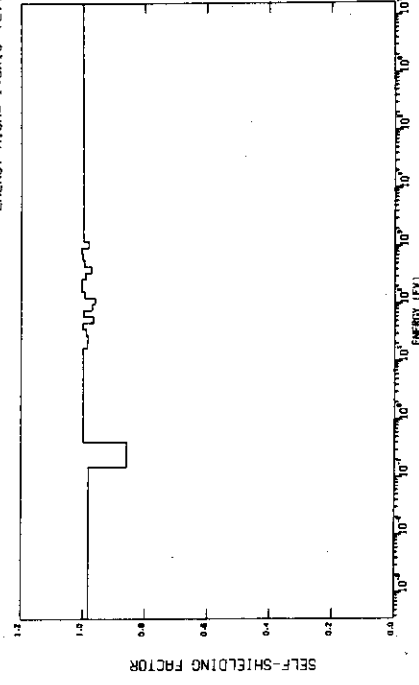
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-IV ( 300K )

CAPTURE

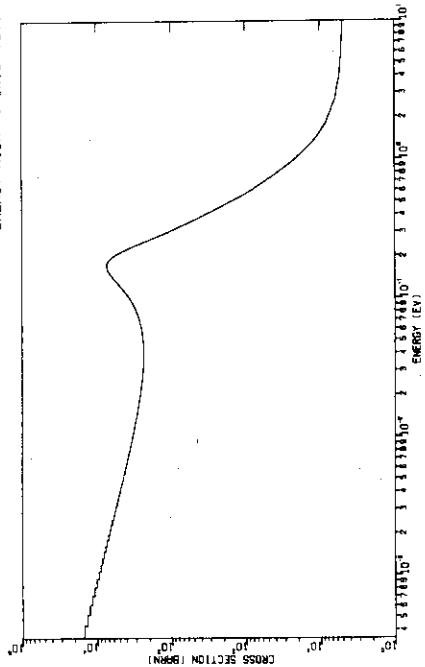
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV

REACTION TYPE = 1

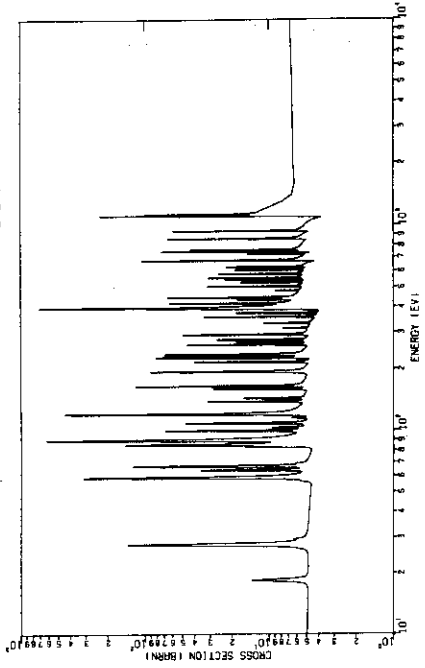
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1281 CD FROM ENDF/B-IV

REACTION TYPE = 1

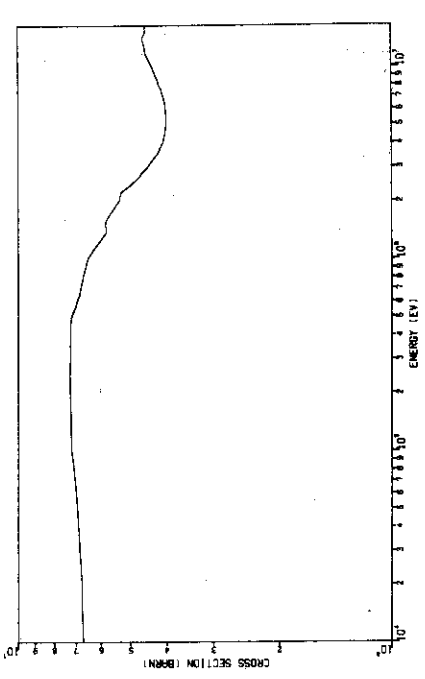
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1281 CD FROM ENDF/B-IV

REACTION TYPE = 1

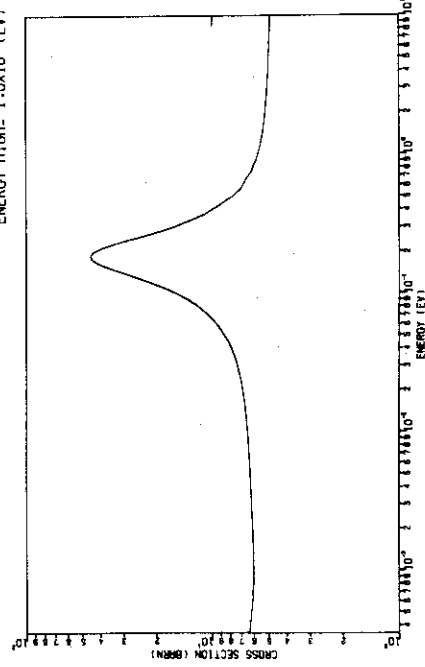
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1281 CD FROM ENDF/B-IV

REACTION TYPE = 2

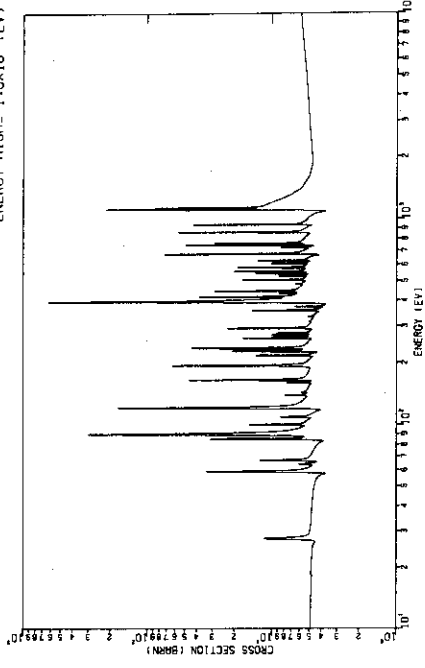
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1281 CD FROM ENDF/B-IV

REACTION TYPE = 2

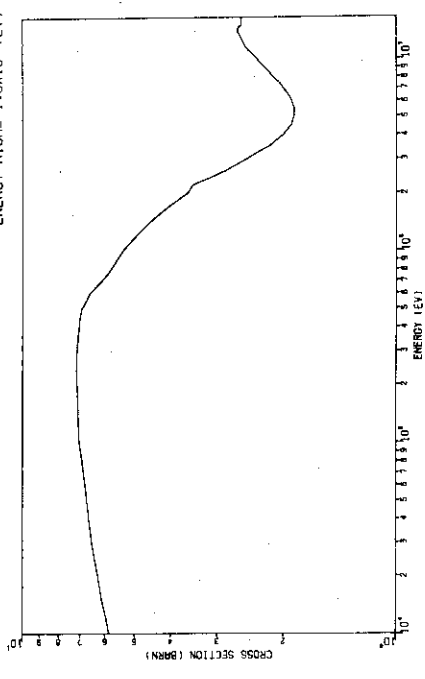
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1281 CD FROM ENDF/B-IV

REACTION TYPE = 2

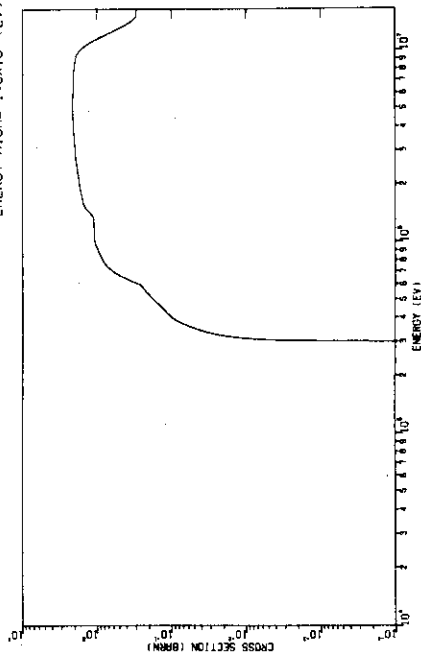
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-1V

REACTION TYPE = 4

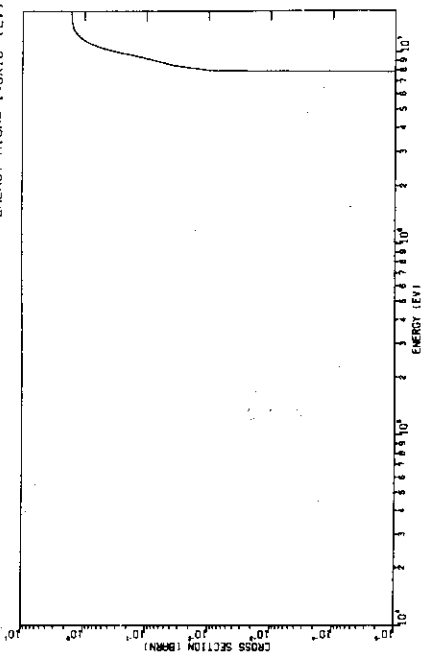
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-1V

REACTION TYPE = 16

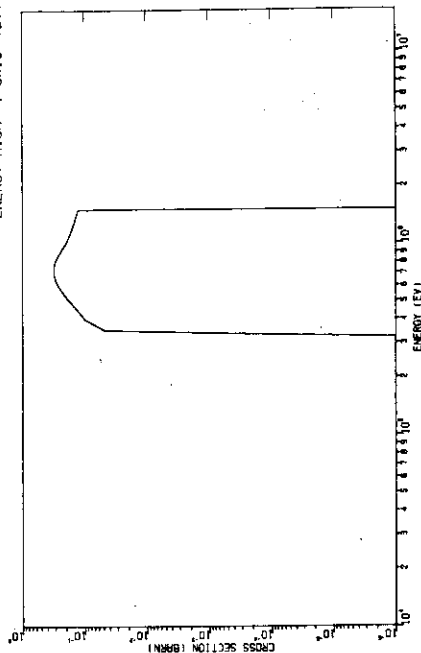
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-1V

REACTION TYPE = 51

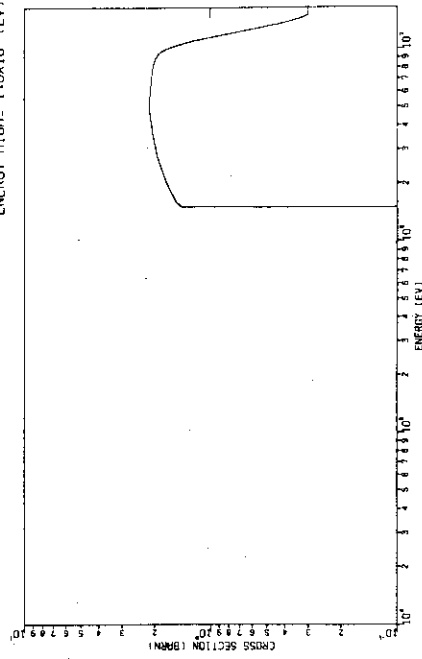
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-1V

REACTION TYPE = 91

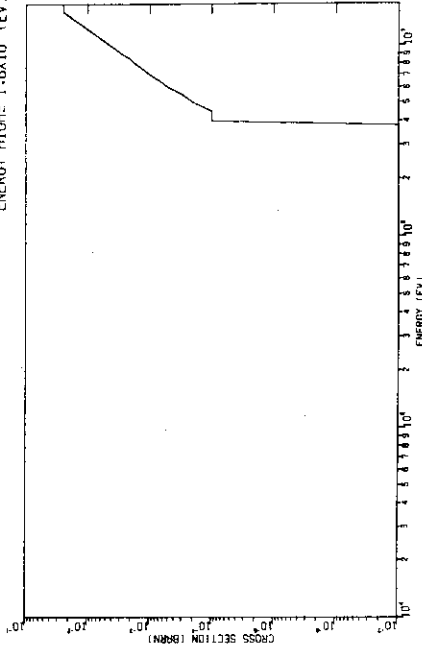
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-1V

REACTION TYPE = 103

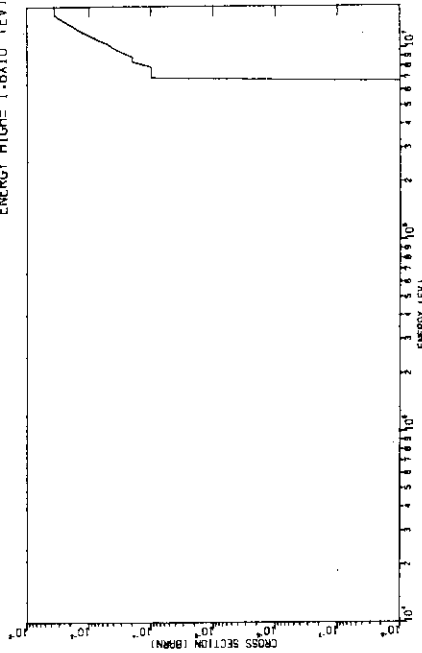
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-1V

REACTION TYPE = 107

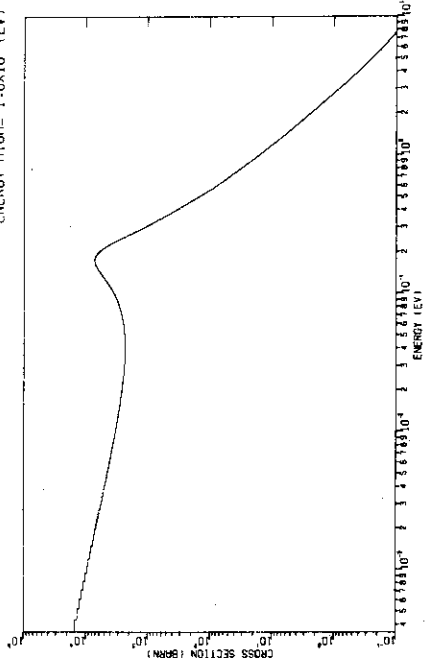
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1281 Cd FROM ENDF/B-IV

REACTION TYPE = 102

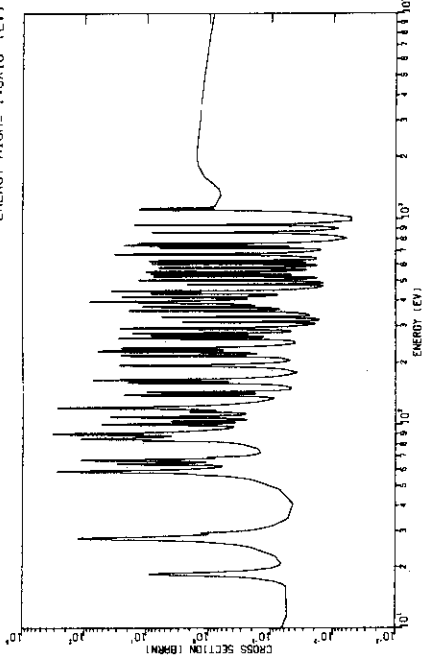
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (eV)



1281 Cd FROM ENDF/B-IV

REACTION TYPE = 102

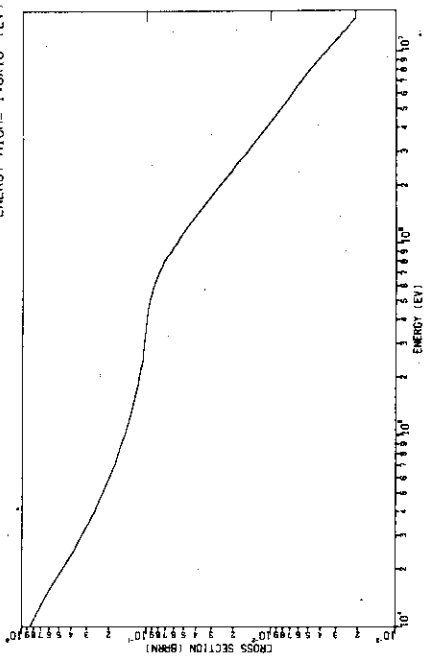
TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (eV)  
ENERGY HIGH= 1.0X10<sup>8</sup> (eV)



1281 Cd FROM ENDF/B-IV

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0= 100000000  
ENERGY LOW = 1.0X10<sup>6</sup> (eV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (eV)

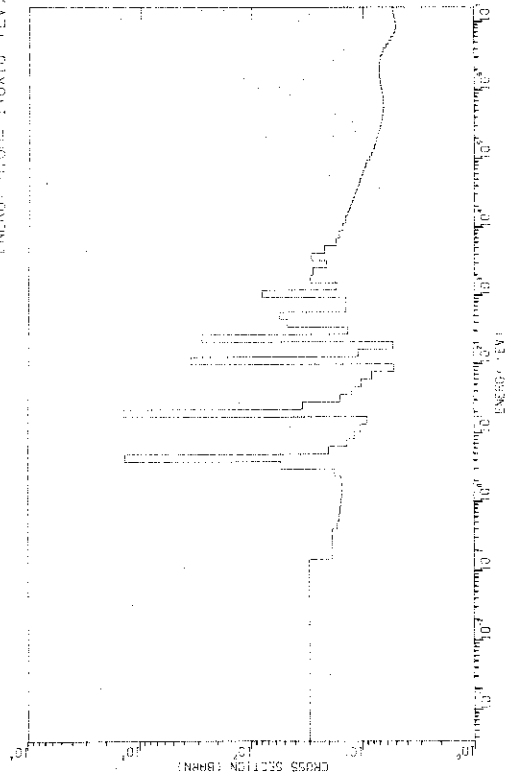




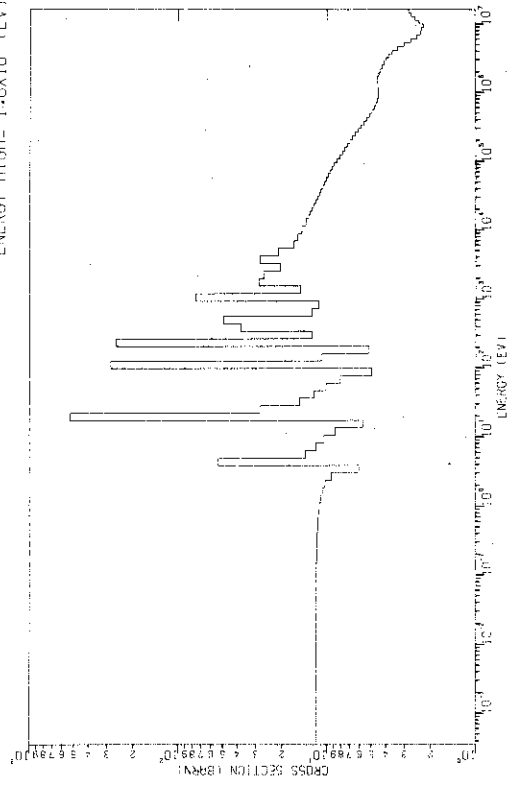
1128 W-182 FROM ENDF/B-VI (300K) TOTAL

1128 W-182 FROM ENDF/B-VI (300K) CLCS

TEMPERATURE = 300 K  
SIG0 = 1.0000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (eV)



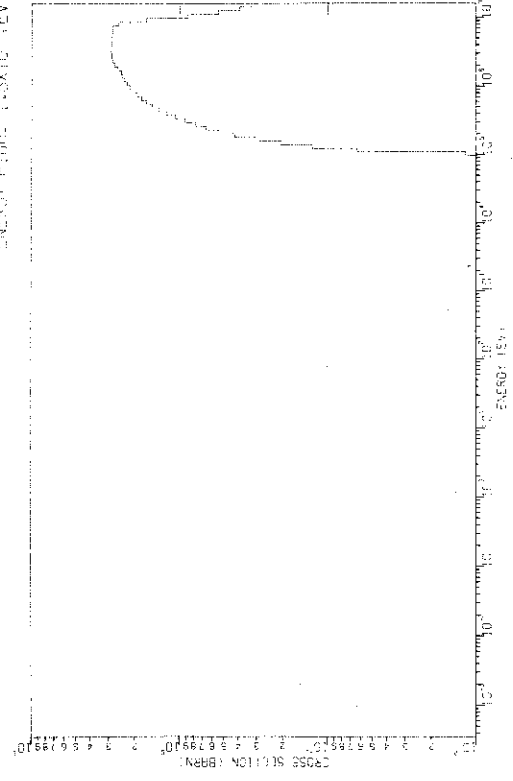
TEMPERATURE = 300 K  
SIG0 = 1.0000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (eV)



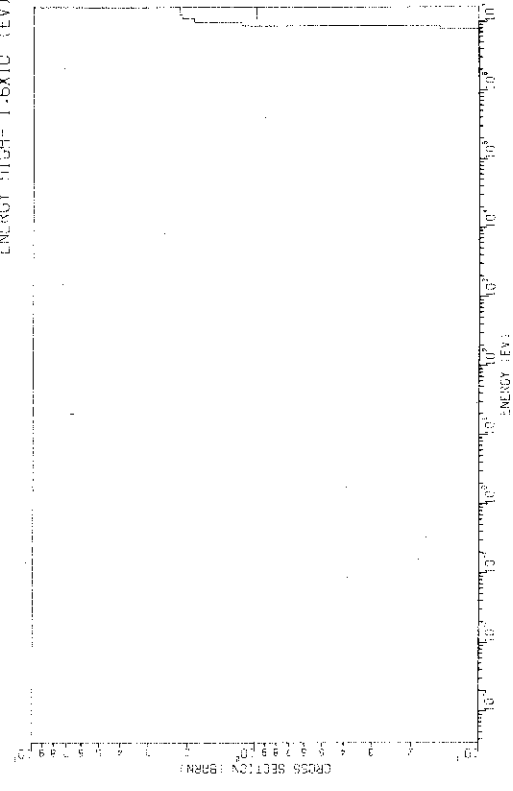
1128 W-182 FROM ENDF/B-VI (300K) ENL-30

1128 W-182 FROM ENDF/B-VI (300K) (N,Z,N)

TEMPERATURE = 300 K  
SIG0 = 1.0000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (eV)

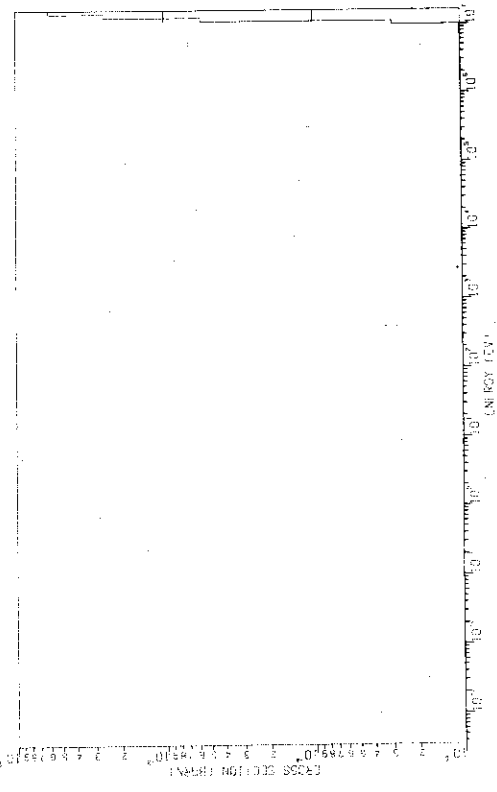


TEMPERATURE = 300 K  
SIG0 = 1.0000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (eV)



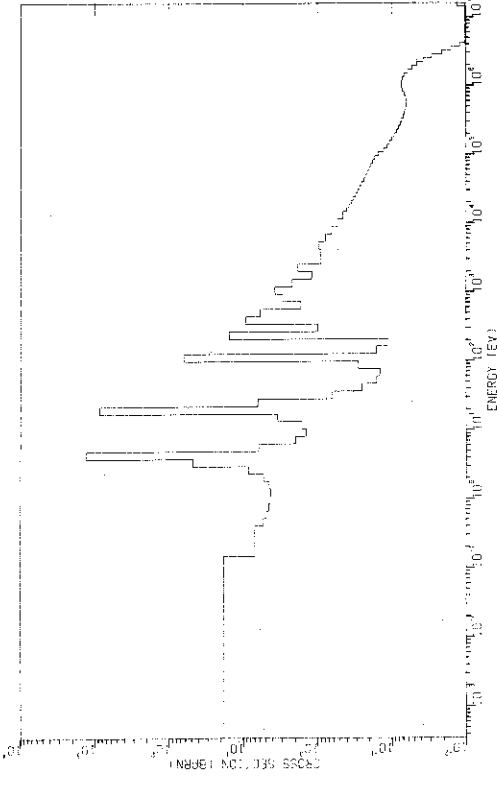
1128 K 182 FROM ENDF/B-VI (300K) (N.P.)

TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



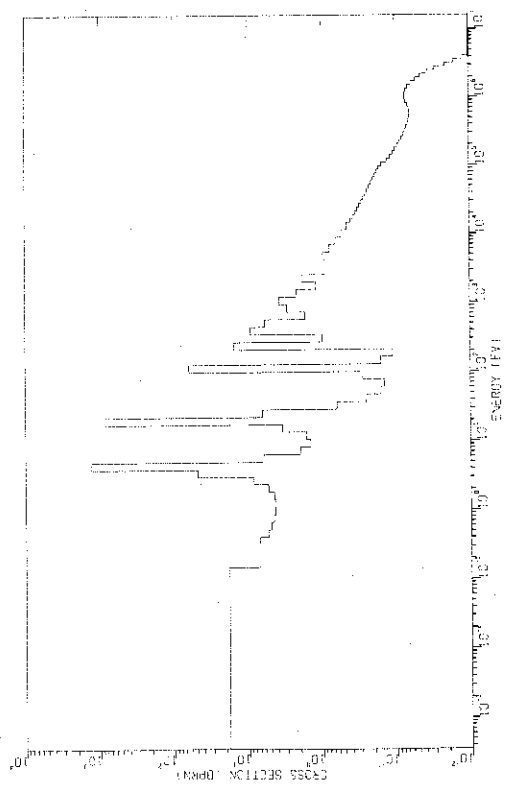
1128 K 182 FROM ENDF/B-VI (300K) CAPTURE

TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



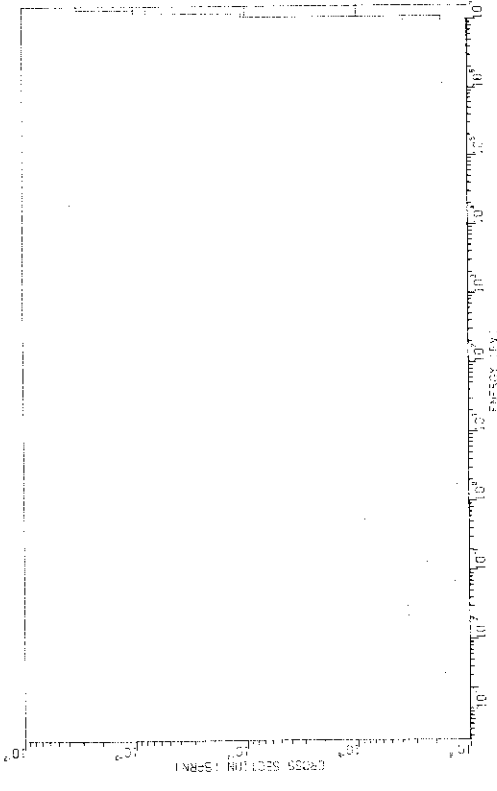
1128 K 182 FROM ENDF/B-VI (300K) (N.G.)

TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1128 K 182 FROM ENDF/B-VI (300K) (N.P.)

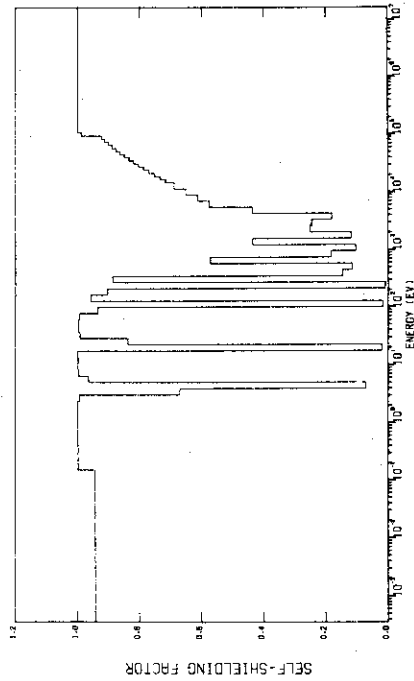
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1128 W-182 FROM ENDF/B-IV ( 300K )

TOTAL

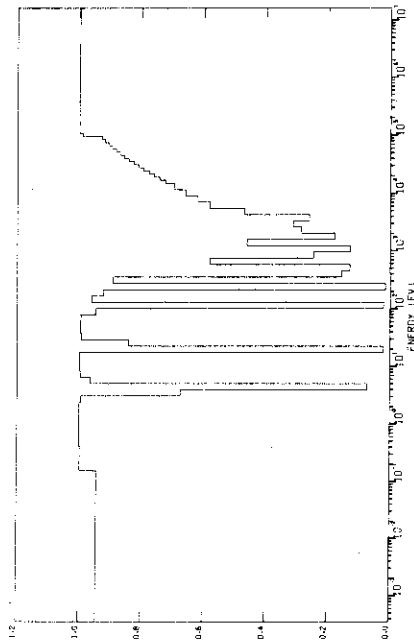
TEMPERATURE = 300 K  
SIGO = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

TOTAL

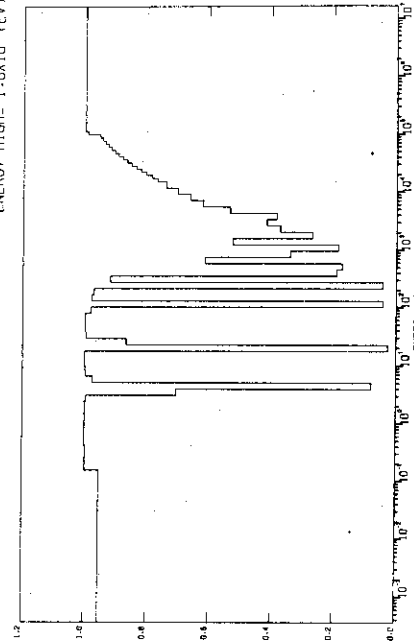
TEMPERATURE = 300 K  
SIGO = 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

TOTAL

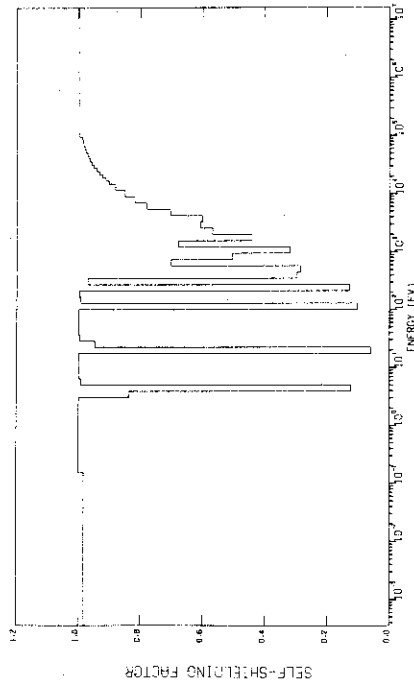
TEMPERATURE = 300 K  
SIGO = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W 182 FROM ENDF/B-IV ( 300K )

TOTAL

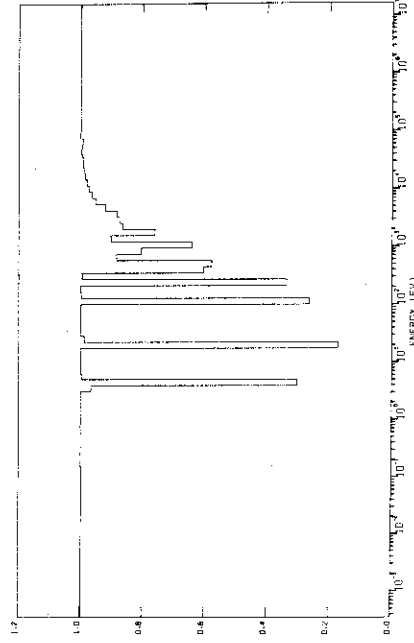
TEMPERATURE = 300 K  
SIGO = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

TOTAL

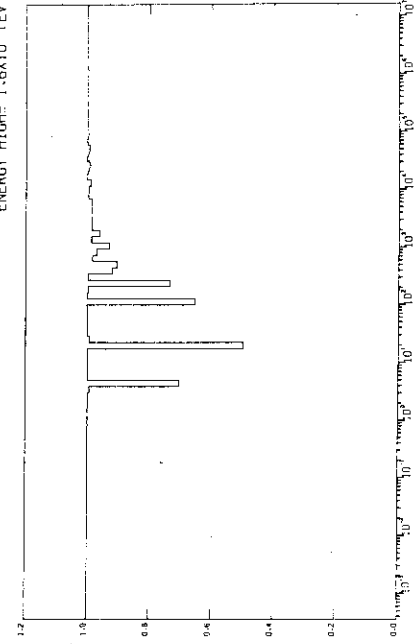
TEMPERATURE = 300 K  
SIGO = 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

TOTAL

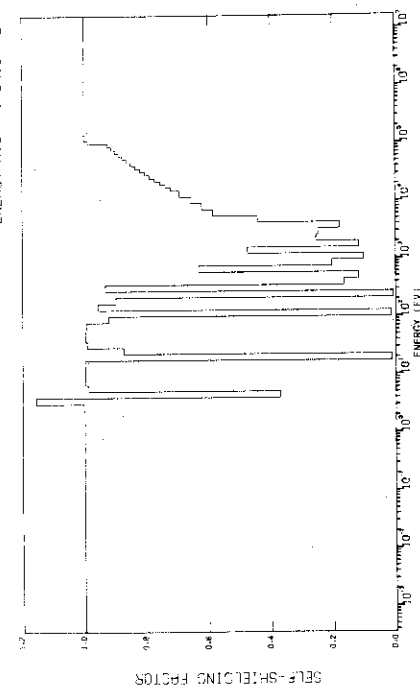
TEMPERATURE = 300 K  
SIGO = 100000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

ELAS

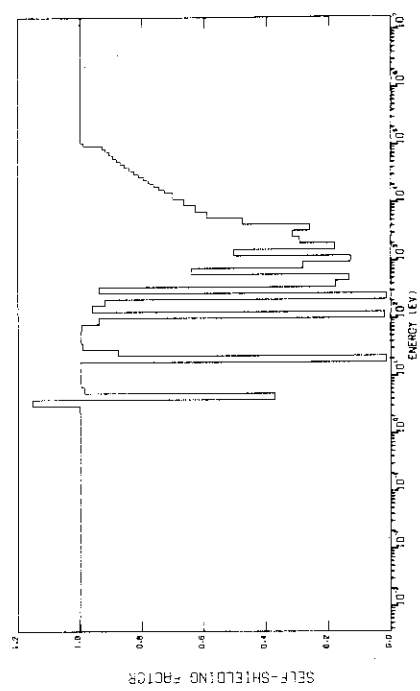
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

ELAS

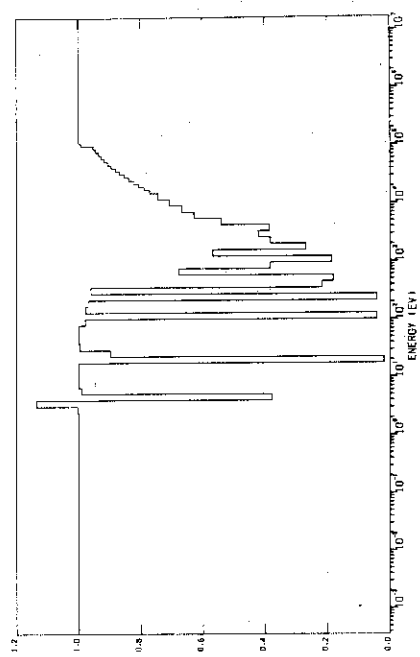
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

ELAS

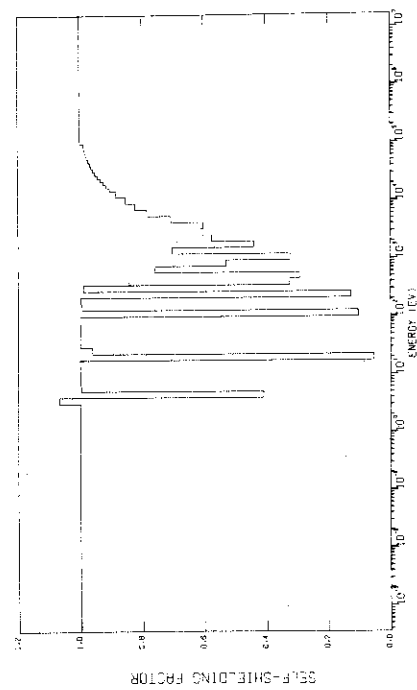
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

ELAS

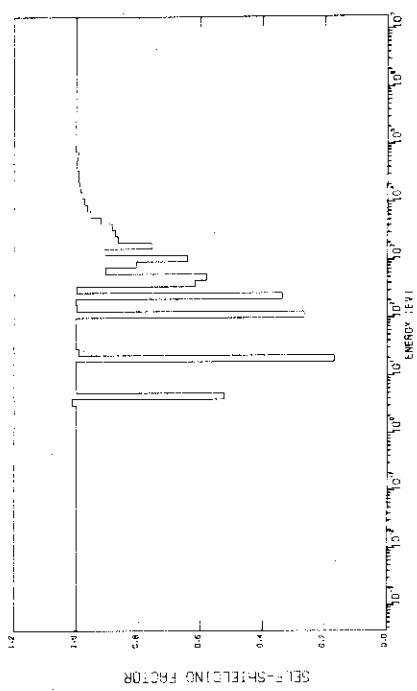
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

ELAS

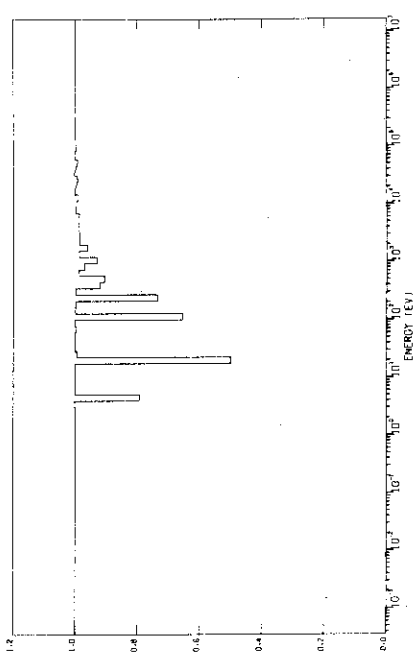
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

ELAS

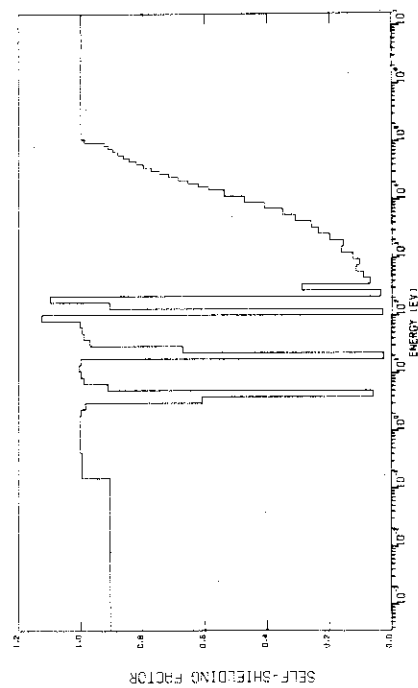
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

CAPTURE

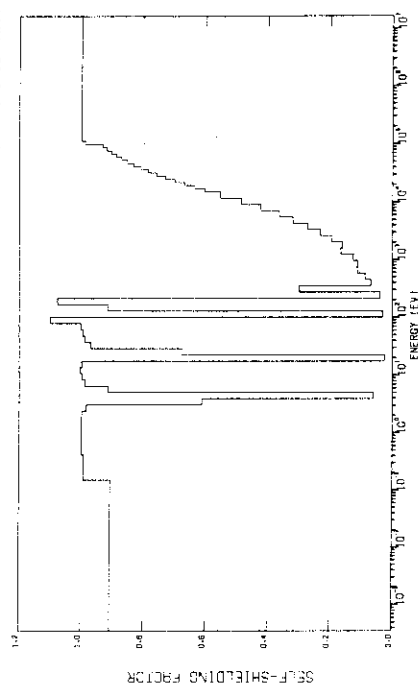
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

CAPTURE

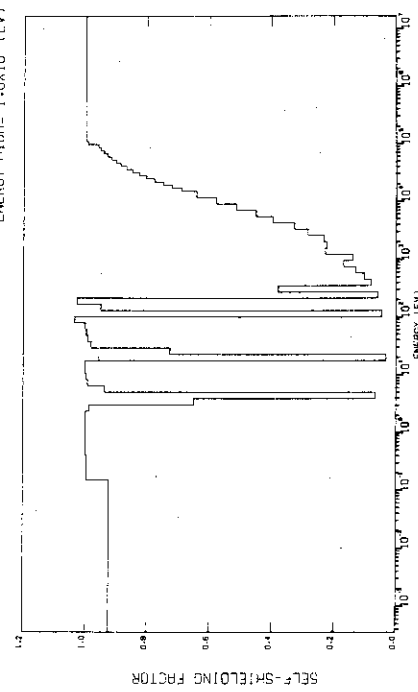
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

CAPTURE

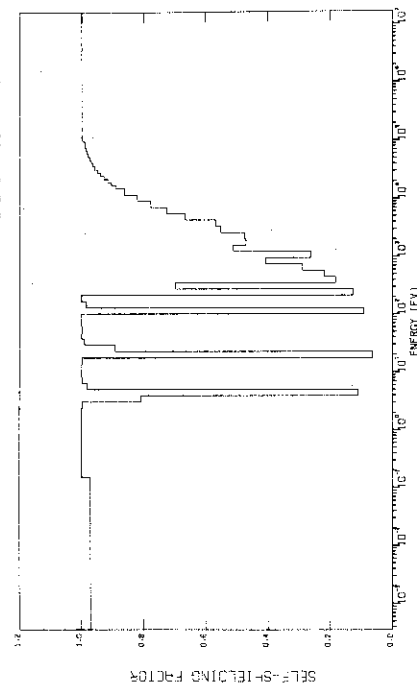
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

CAPTURE

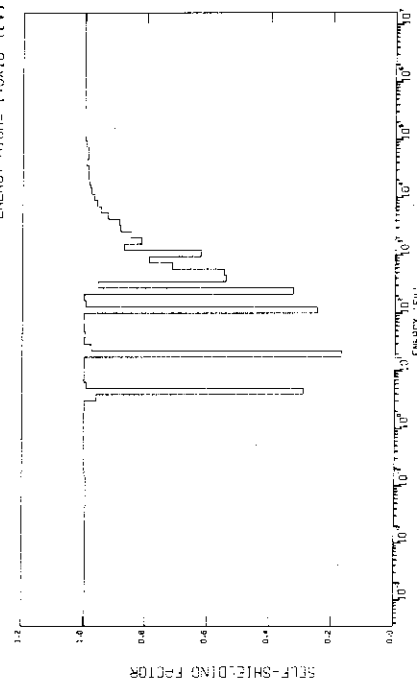
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

CAPTURE

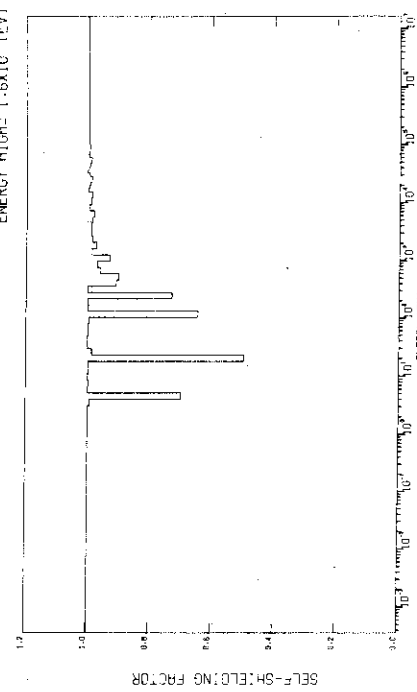
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV ( 300K )

CAPTURE

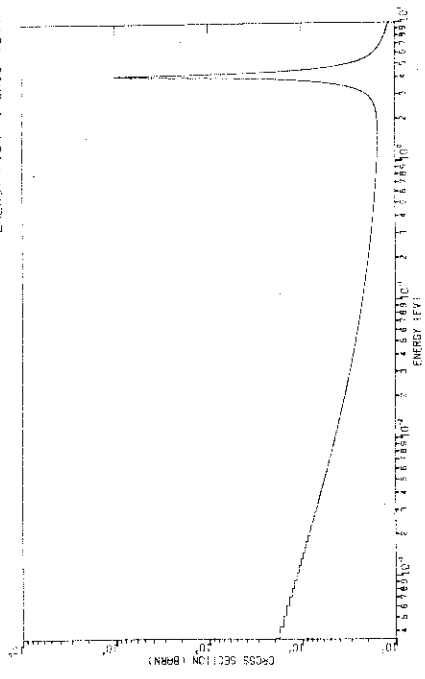
TEMPERATURE = 300 K  
SIG0 = 100000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1128 W-182 FROM ENDF/B-IV

REACTION TYPE = 1

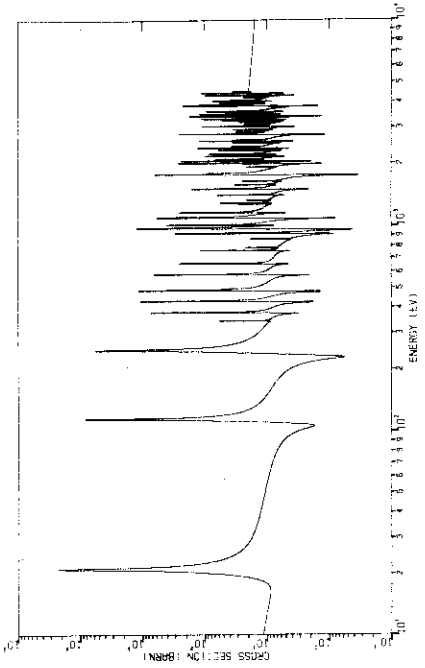
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1128 W-182 FROM ENDF/B-IV

REACTION TYPE = 1

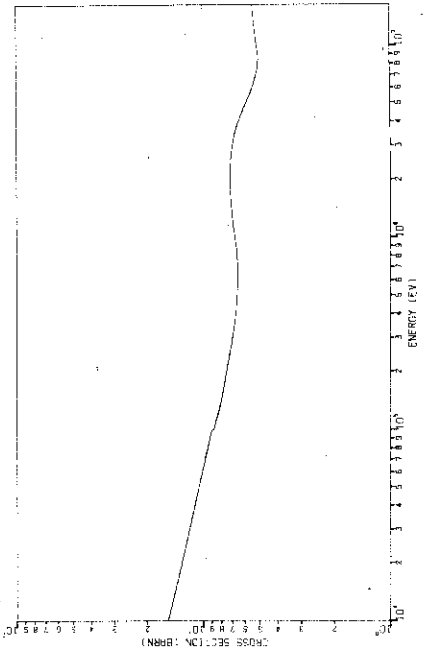
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1128 W-182 FROM ENDF/B-IV

REACTION TYPE = 1

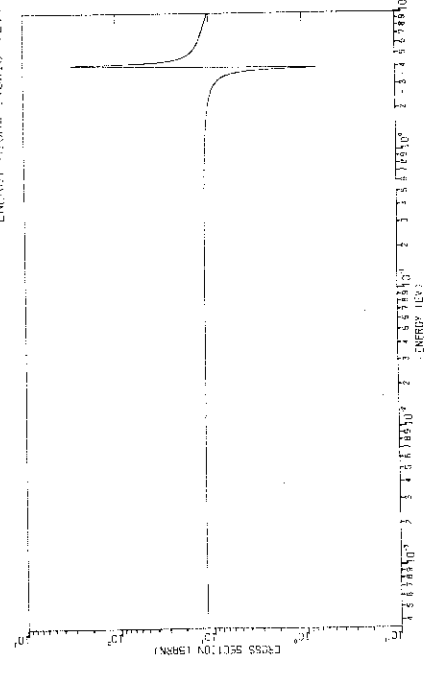
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1128 W-182 FROM ENDF/B-IV

REACTION TYPE = 2

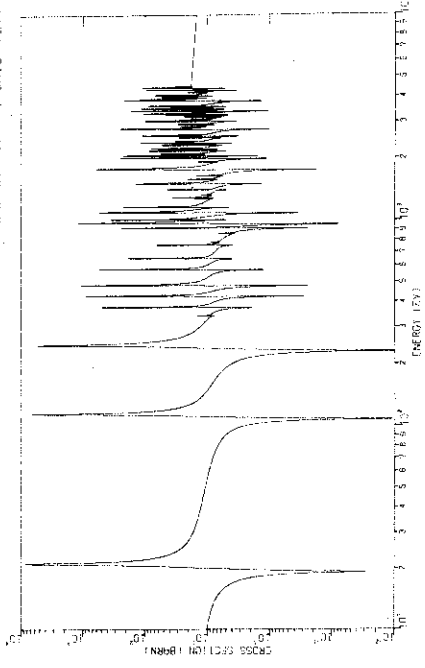
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1128 W-182 FROM ENDF/B-IV

REACTION TYPE = 2

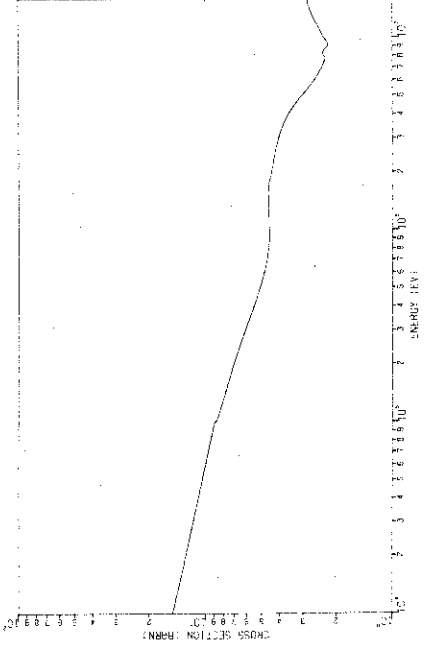
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1128 W-182 FROM ENDF/B-IV

REACTION TYPE = 2

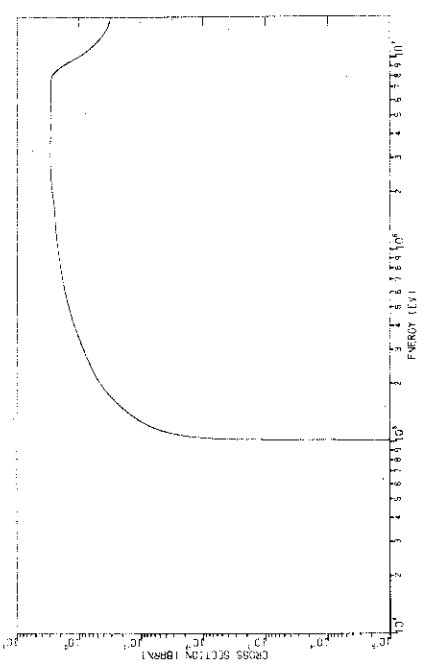
TEMPERATURE = 300 K  
SIGG= 100000000  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



1128 M-182 FROM ENDF/B-IV

REACTION TYPE = 4

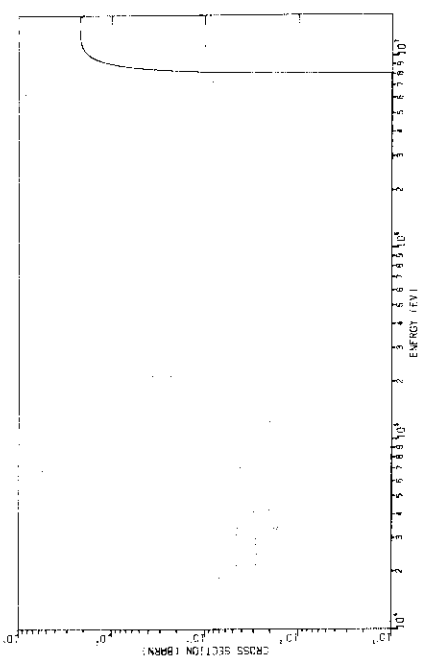
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.5 \times 10^7$  (eV)



1128 M-182 FROM ENDF/B-IV

REACTION TYPE = 16

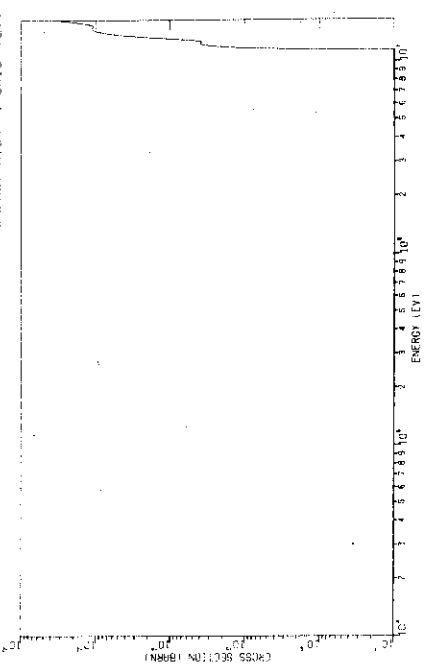
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.5 \times 10^7$  (eV)



1128 M-182 FROM ENDF/B-IV

REACTION TYPE = 26

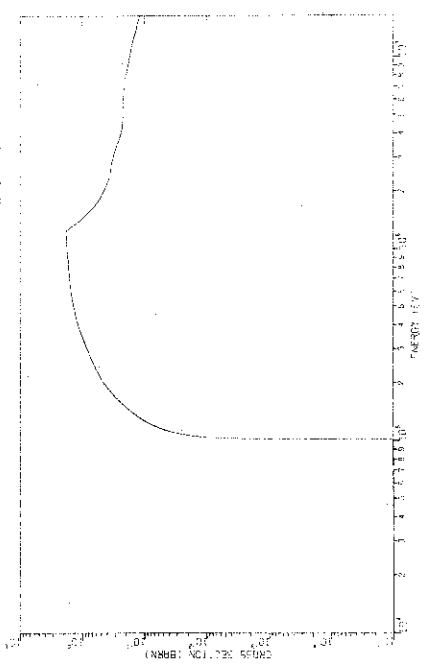
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.5 \times 10^7$  (eV)



1128 M-182 FROM ENDF/B-IV

REACTION TYPE = 1

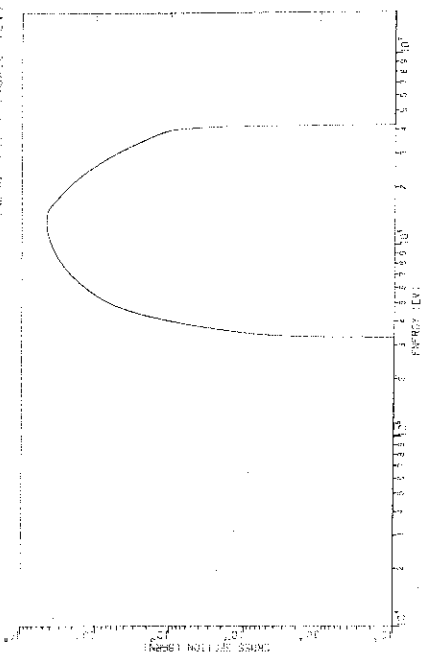
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.5 \times 10^7$  (eV)



1128 M-182 FROM ENDF/B-IV

REACTION TYPE = 52

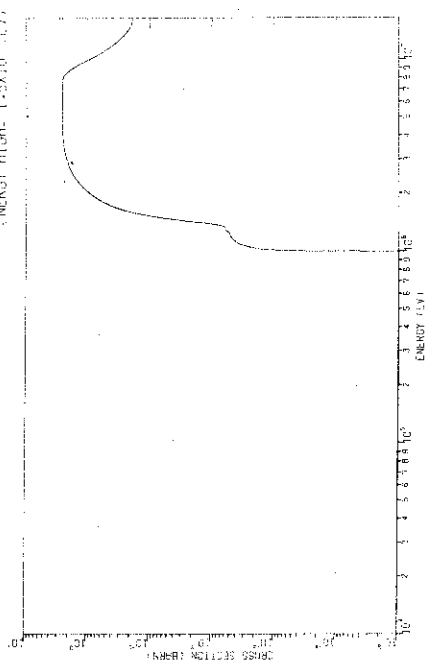
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.5 \times 10^7$  (eV)



1128 M-182 FROM ENDF/B-IV

REACTION TYPE = 91

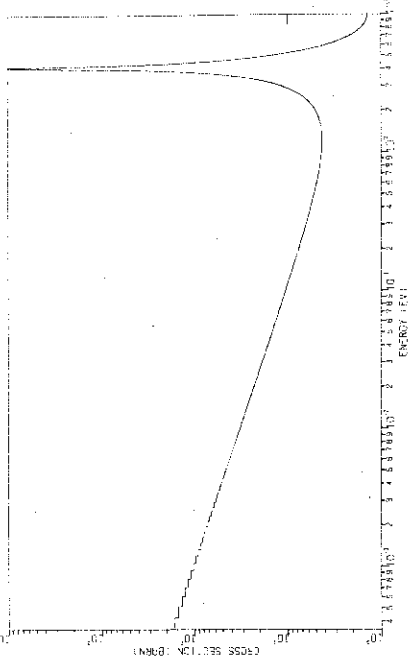
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.5 \times 10^7$  (eV)



1128 K 182 FROM END/FB-IV

REACTOR TYPE : 102

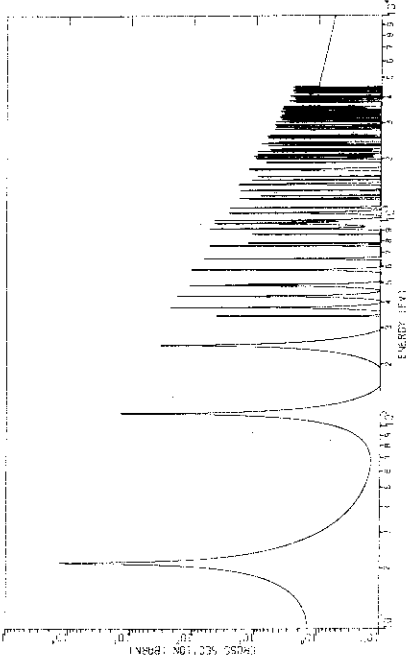
TEMPERATURE : 260 K  
SLOPE : 1.00000000  
ENERGY LOW :  $1.4 \times 10^4$  (eV)  
ENERGY HIGH :  $1.4 \times 10^4$  (eV)



1125 K 182 FROM END/FB-IV

REACTOR TYPE : 102

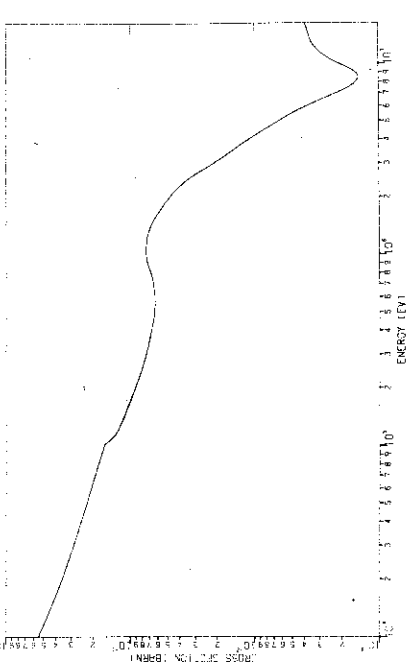
TEMPERATURE : 300 K  
SLOPE : 1.00000000  
ENERGY LOW :  $1.4 \times 10^4$  (eV)  
ENERGY HIGH :  $1.4 \times 10^4$  (eV)



1125 K 182 FROM END/FB-IV

REACTOR TYPE : 102

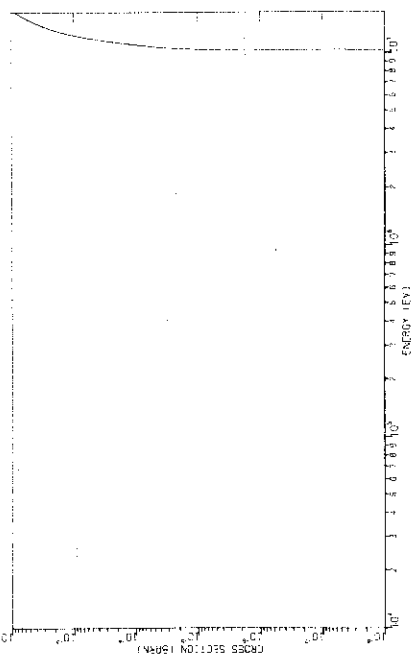
TEMPERATURE : 300 K  
SLOPE : 1.00000000  
ENERGY LOW :  $1.4 \times 10^4$  (eV)  
ENERGY HIGH :  $1.4 \times 10^4$  (eV)



1128 K 182 FROM END/FB-IV

REACTOR TYPE : 102

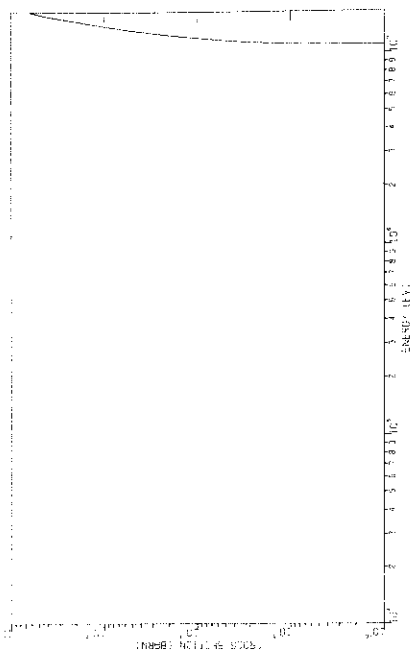
TEMPERATURE : 300 K  
SLOPE : 1.00000000  
ENERGY LOW :  $1.4 \times 10^4$  (eV)  
ENERGY HIGH :  $1.4 \times 10^4$  (eV)



1125 K 182 FROM END/FB-IV

REACTOR TYPE : 102

TEMPERATURE : 300 K  
SLOPE : 1.00000000  
ENERGY LOW :  $1.4 \times 10^4$  (eV)  
ENERGY HIGH :  $1.4 \times 10^4$  (eV)





183 W  
74  
1129

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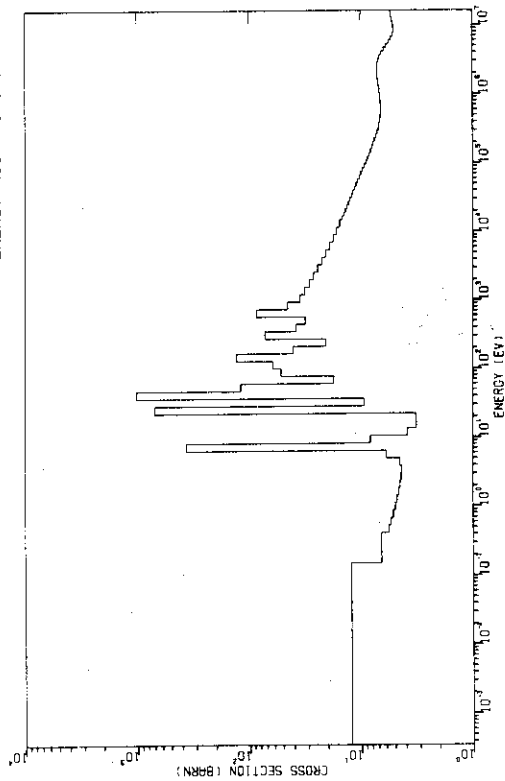
1129 W-183 FROM ENDF/B-IV ( 300K )

TOTAL

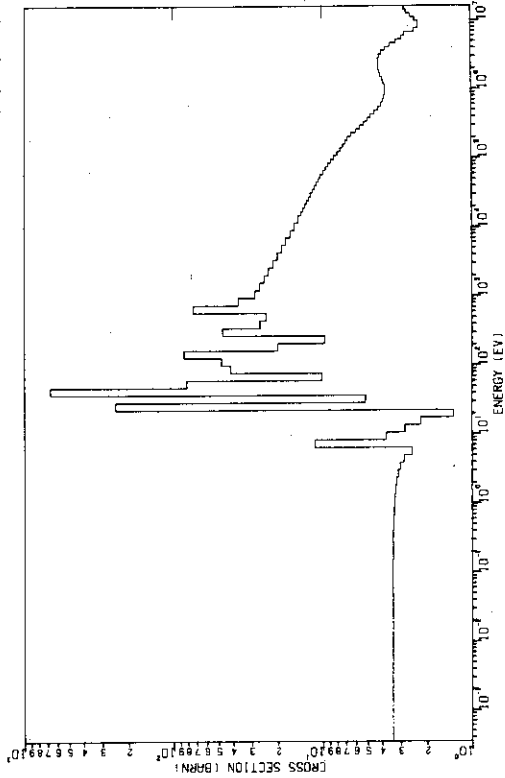
1129 W-183 FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



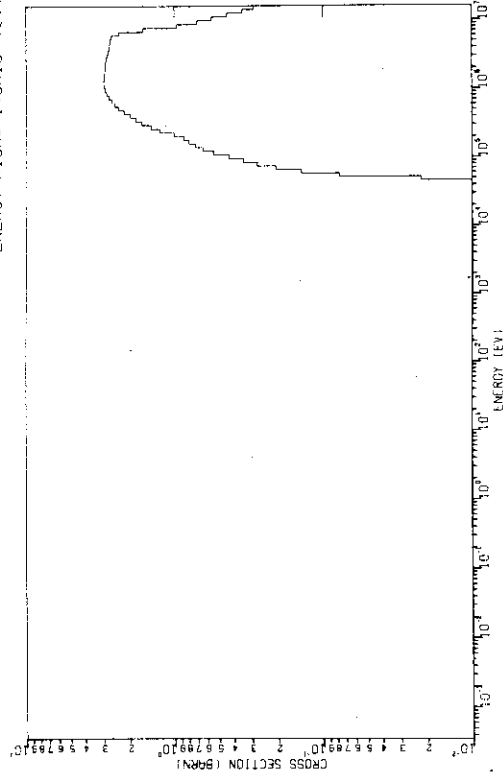
1129 W-183 FROM ENDF/B-IV ( 300K )

INELAS

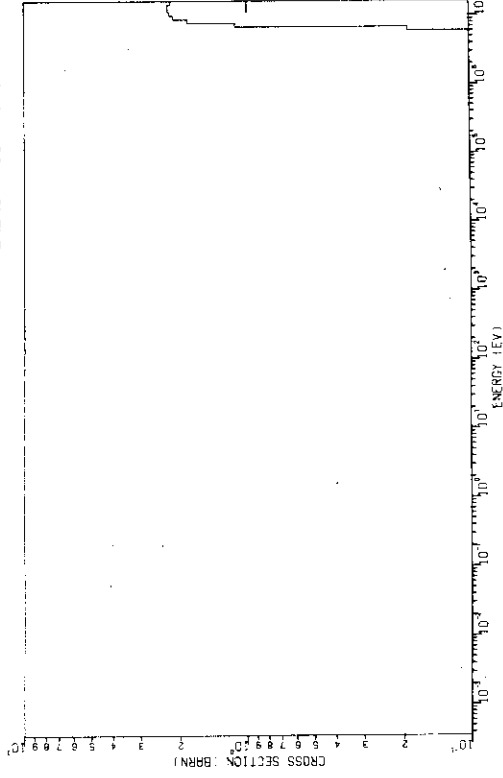
1129 W-183 FROM ENDF/B-IV ( 300K )

(N,Z)

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)

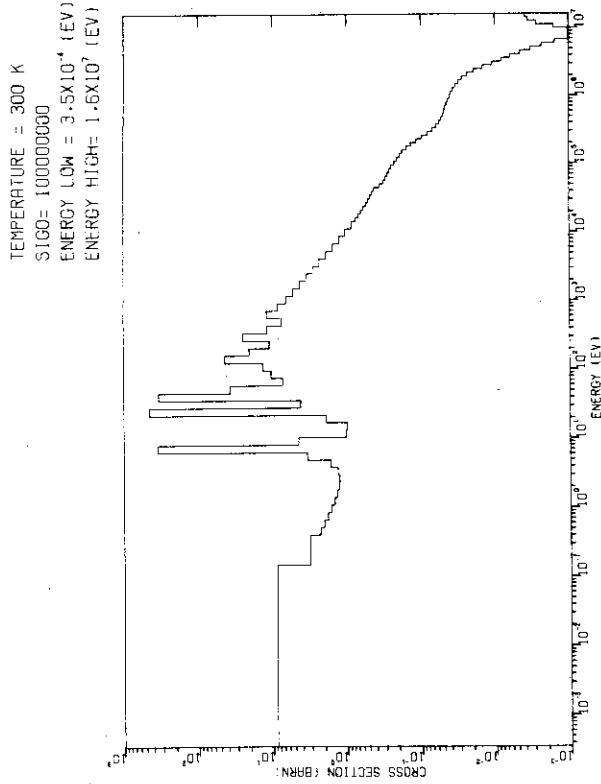


TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



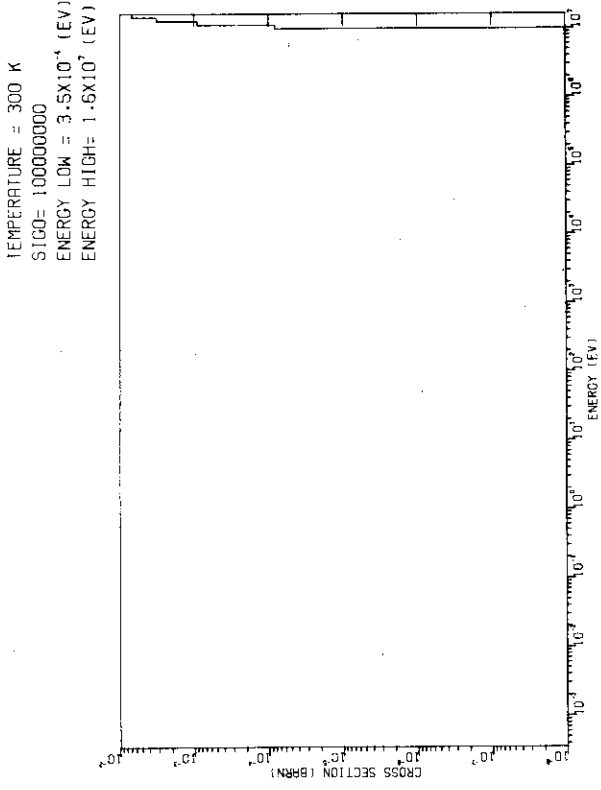
1129 W-183 FROM ENDF/B-IV ( 300K )

( N.G )



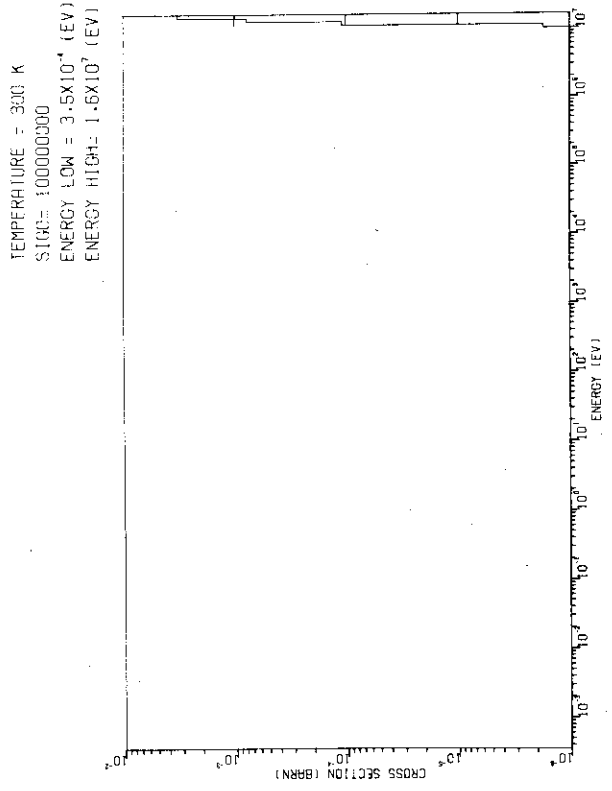
1129 W-183 FROM ENDF/B-IV ( 300K )

( N.P )



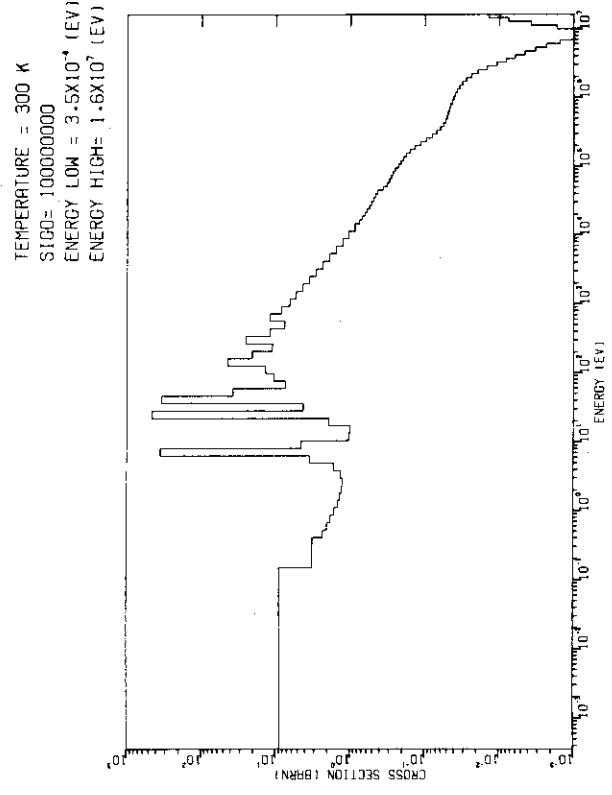
1129 W-183 FROM ENDF/B-IV ( 300K )

( N.F )



1129 W-183 FROM ENDF/B-IV ( 300K )

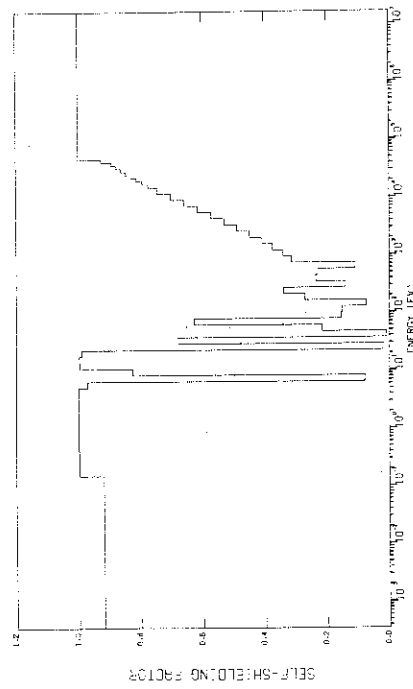
( N.P )



1129 W-183 FROM ENDF/B-IV ( 300K )

TOTAL

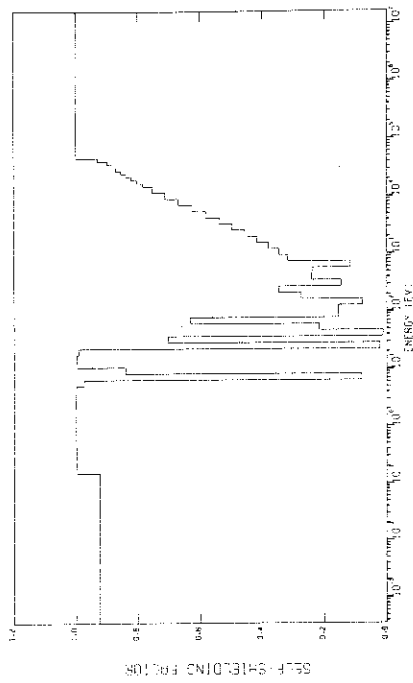
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV ( 300K )

TOTAL

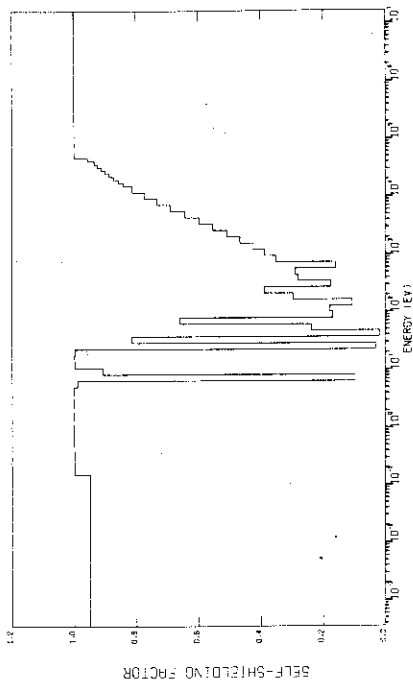
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV ( 300K )

TOTAL

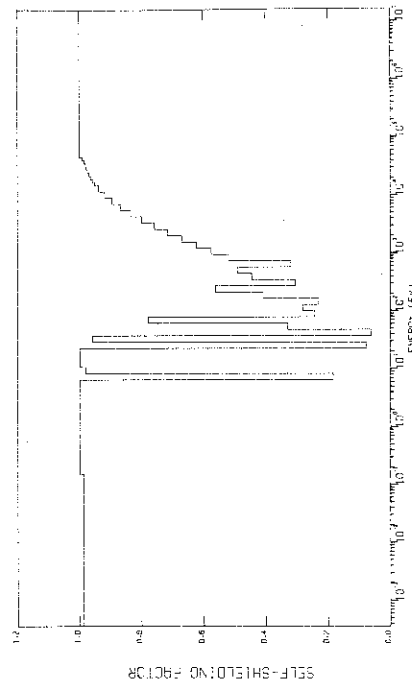
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV ( 300K )

TOTAL

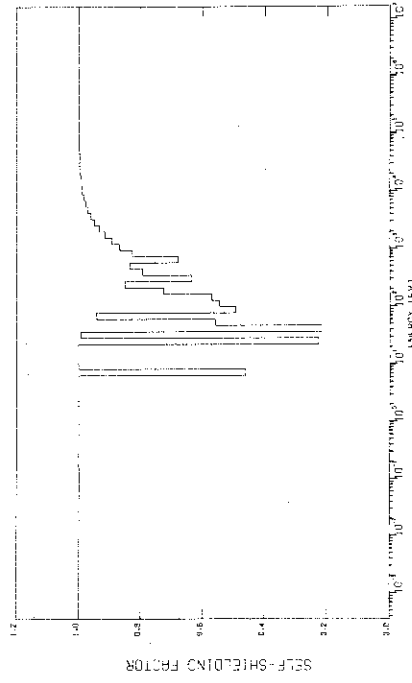
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV ( 300K )

TOTAL

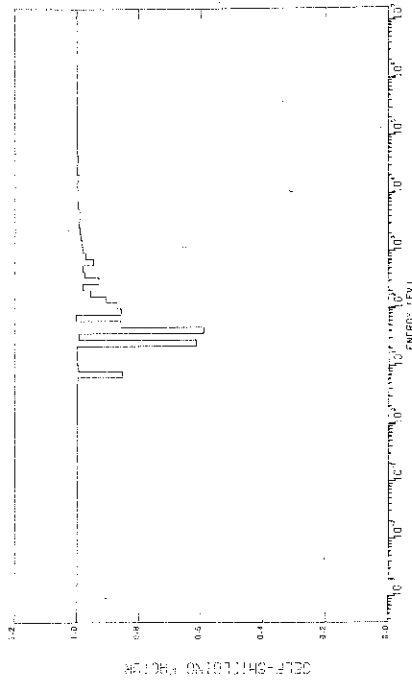
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV ( 300K )

TOTAL

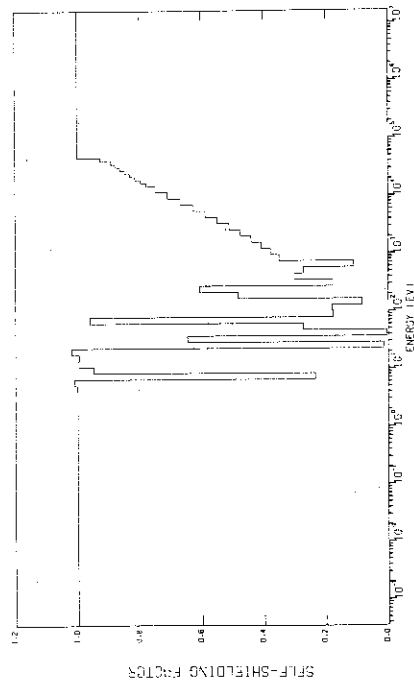
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV ( 300K )

ELRS

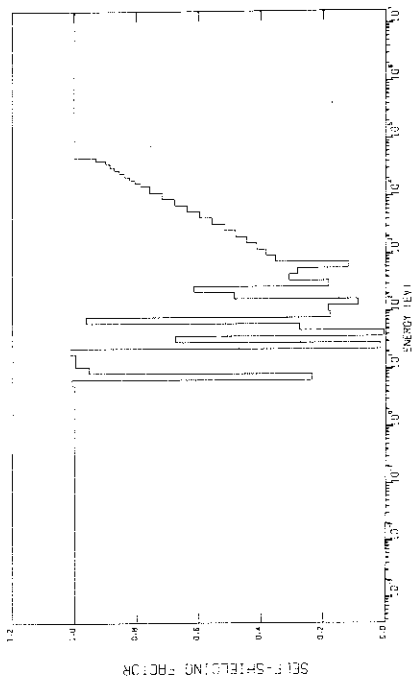
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

ELRS

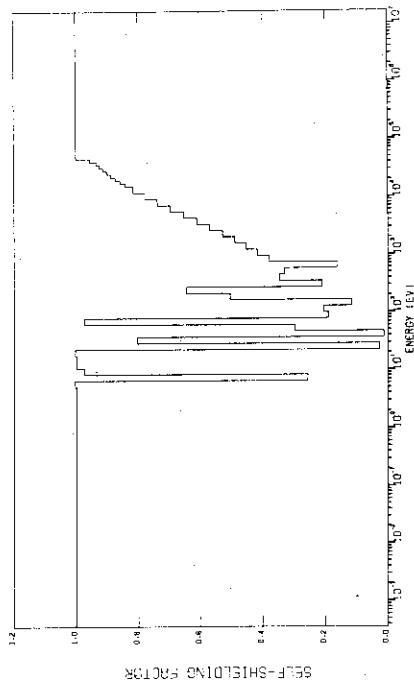
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

ELRS

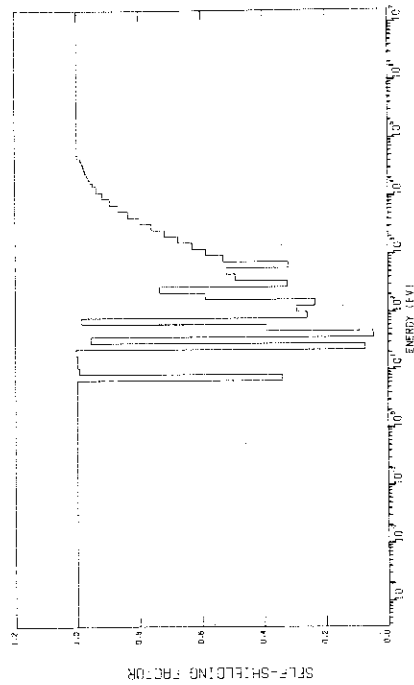
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

ELRS

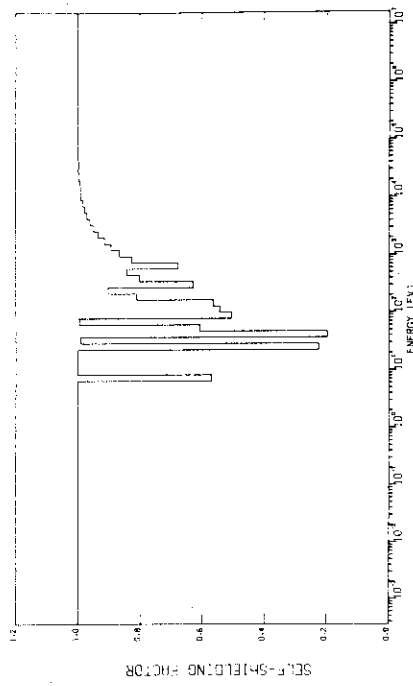
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

ELRS

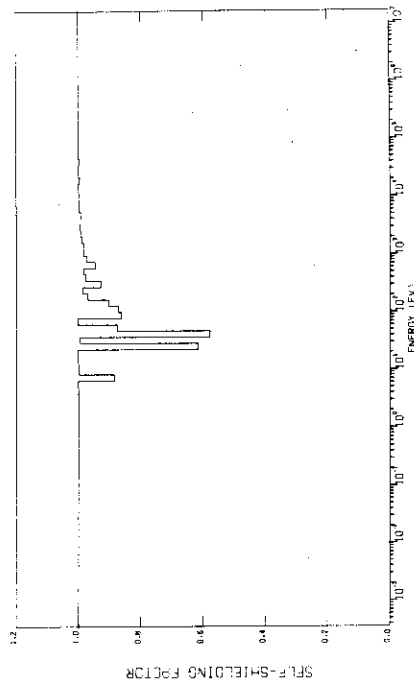
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

ELRS

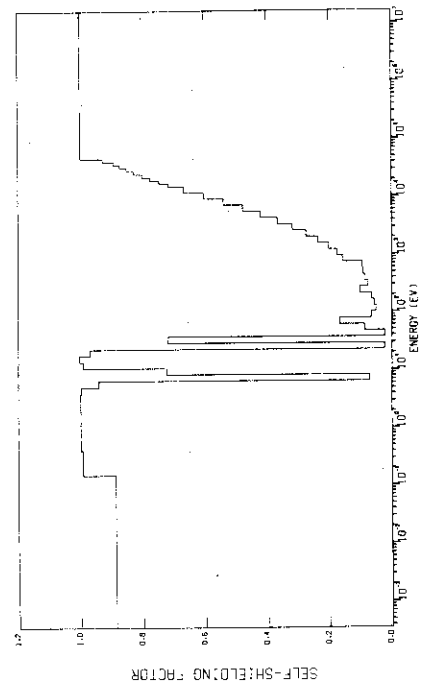
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

CAPTURE

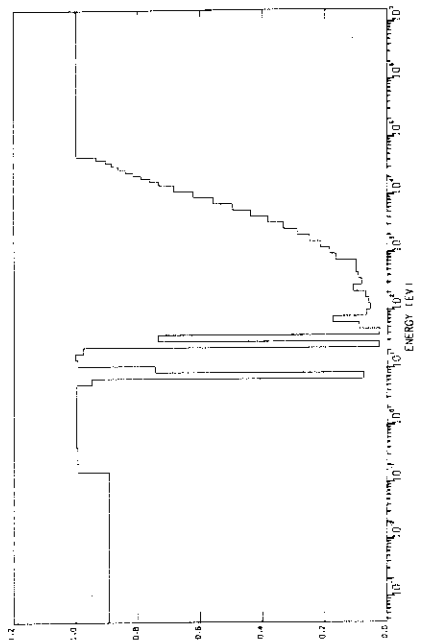
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

CAPTURE

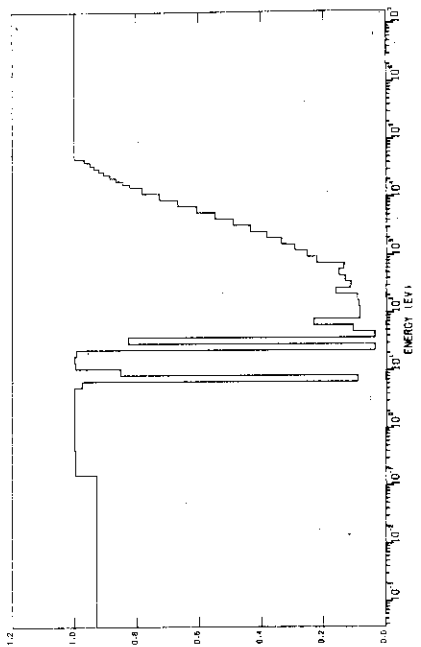
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

CAPTURE

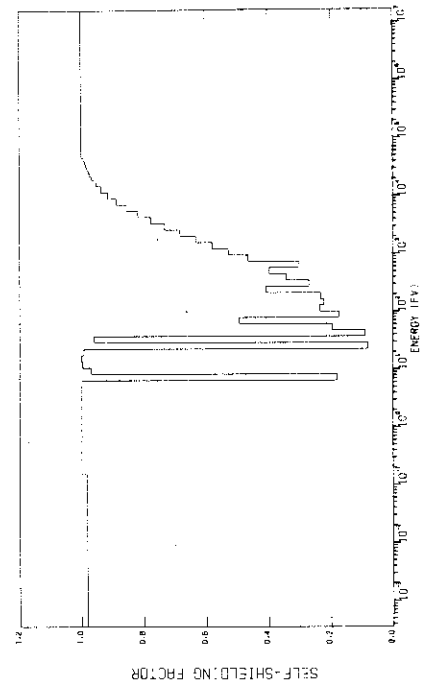
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

CAPTURE

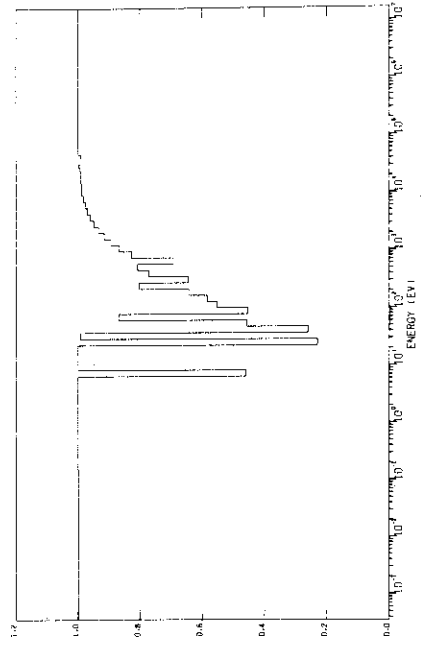
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

CAPTURE

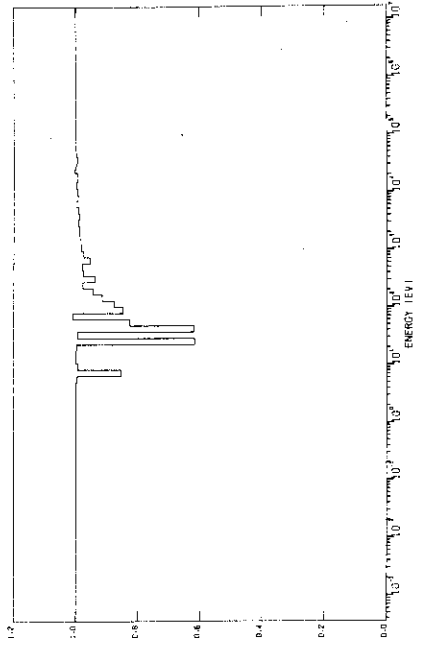
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1129 W-183 FROM ENDF/B-IV ( 300K )

CAPTURE

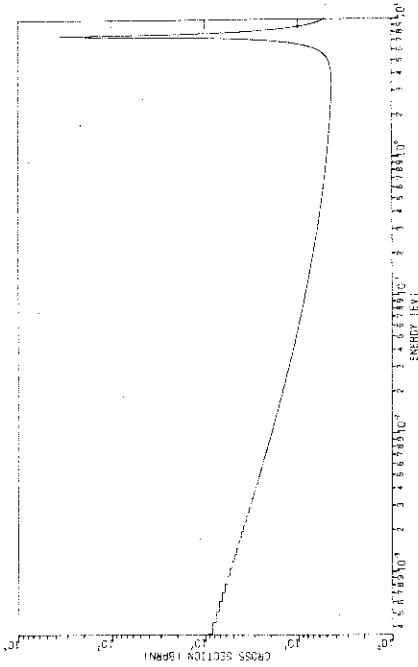
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 1

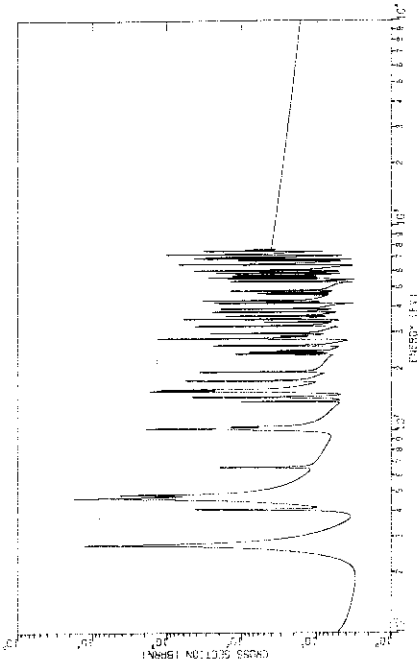
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>-10</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 1

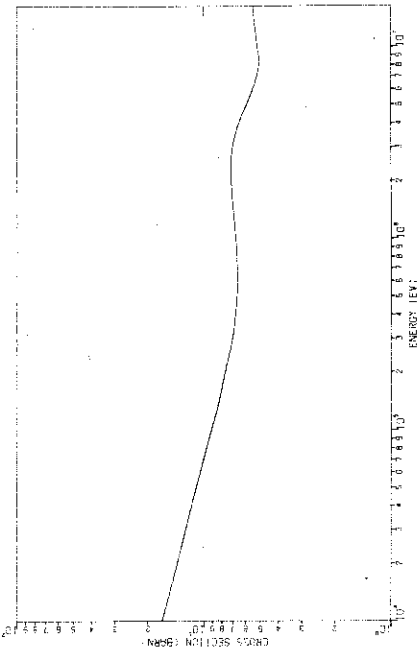
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>-10</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 1

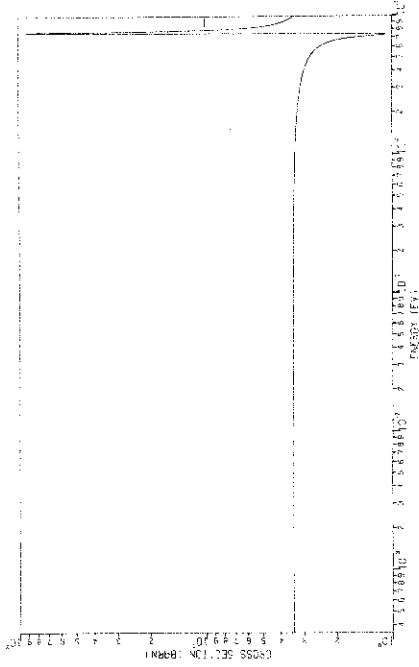
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>-10</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 2

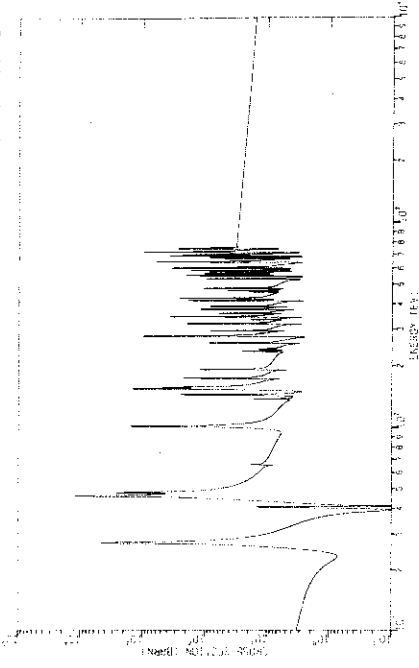
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>-10</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 2

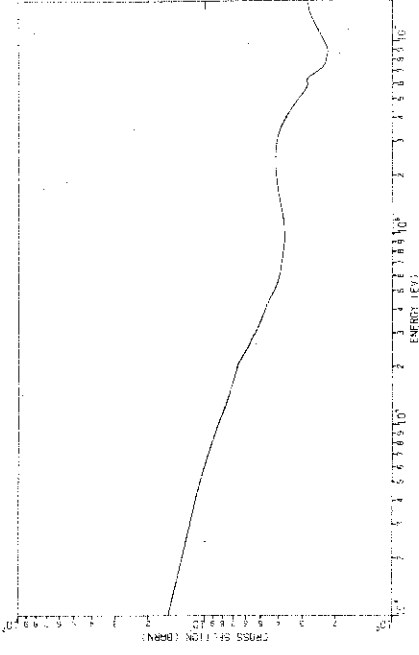
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>-10</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 2

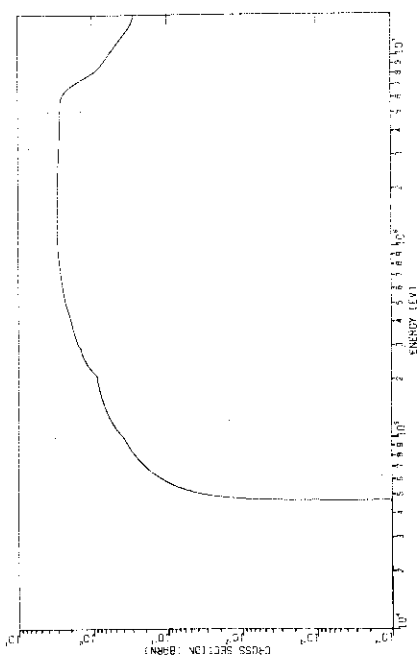
TEMPERATURE = 300 K  
SI(0) = 1.00000000  
ENERGY LOW = 1.0X10<sup>-10</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 4

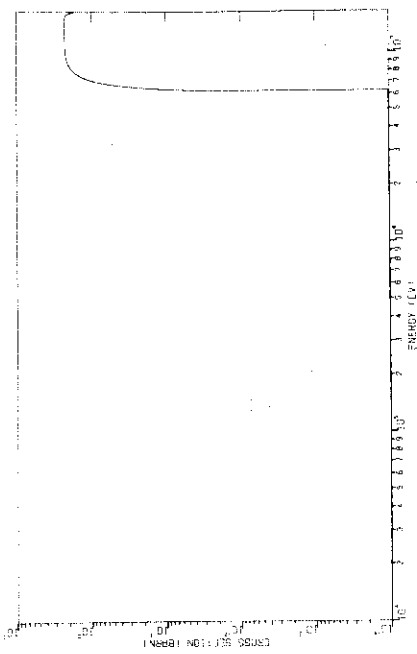
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 16

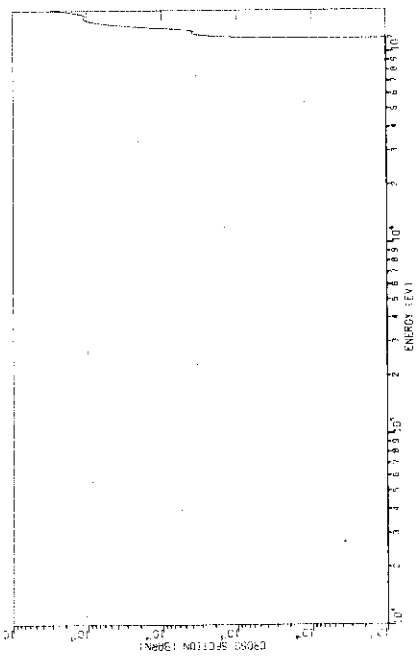
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 28

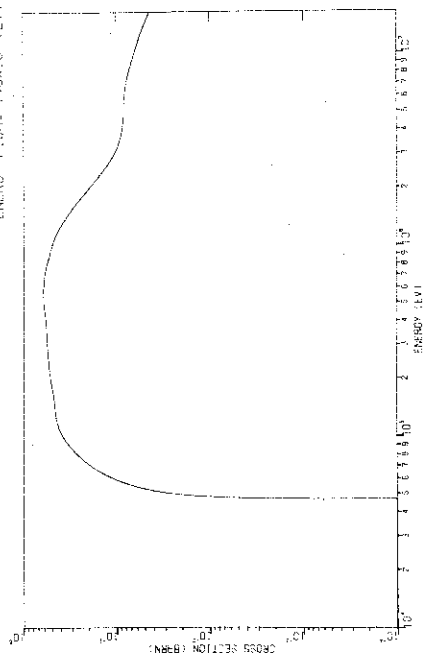
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 51

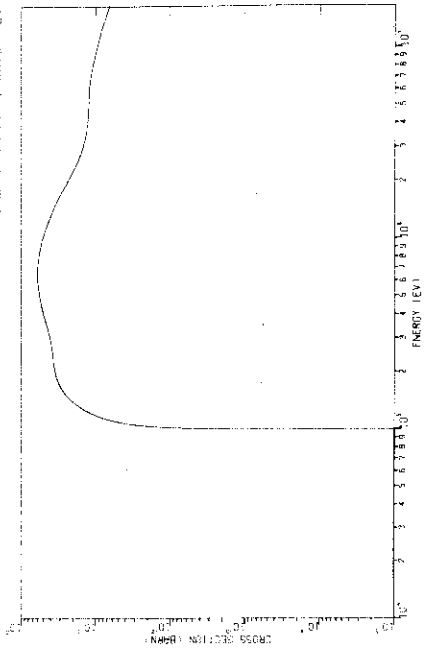
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 52

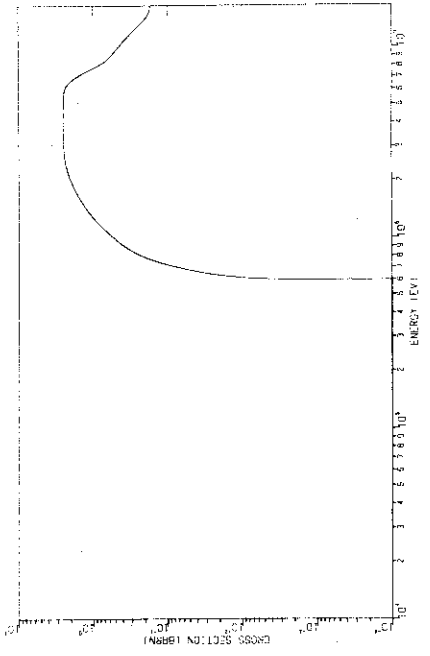
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 91

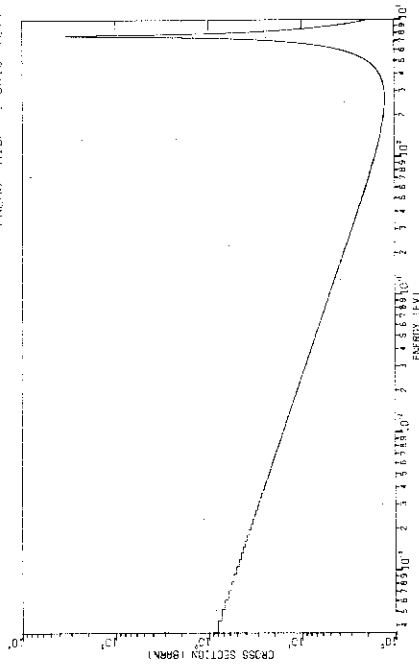
TEMPERATURE = 300 K  
SIGO = 100000000  
ENERGY LOW =  $1.0 \times 10^4$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 102

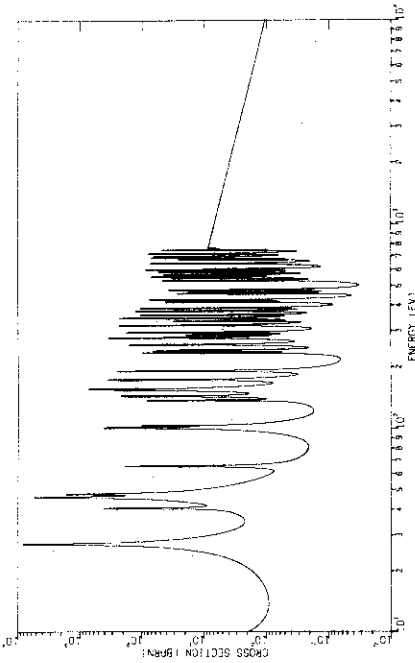
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (EV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 102

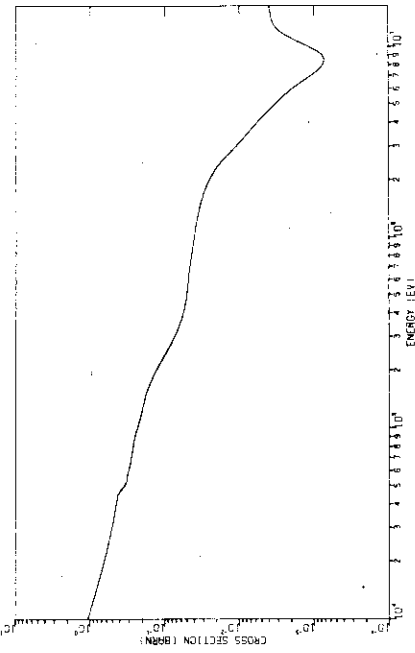
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (EV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 102

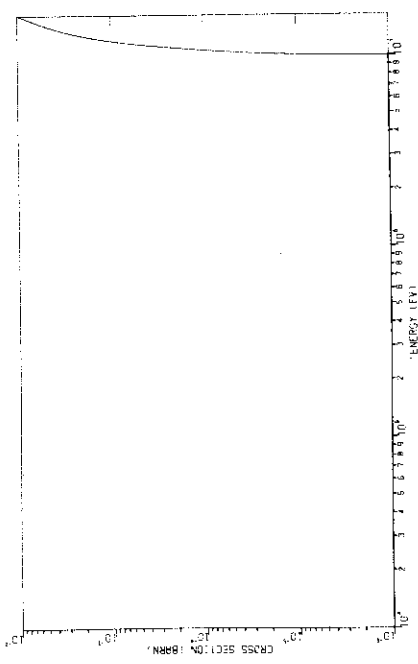
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (EV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 101

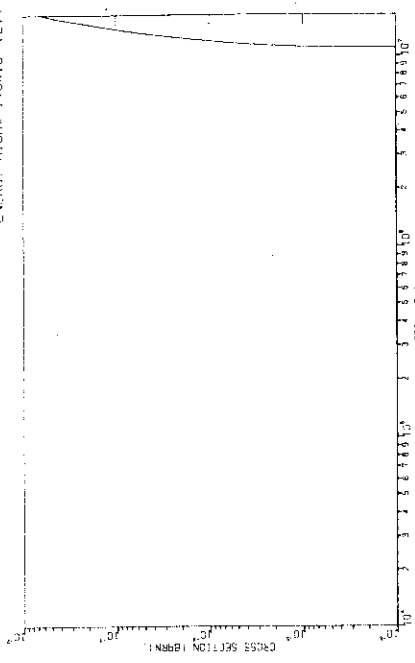
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (EV)



1129 W-183 FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>10</sup> (EV)





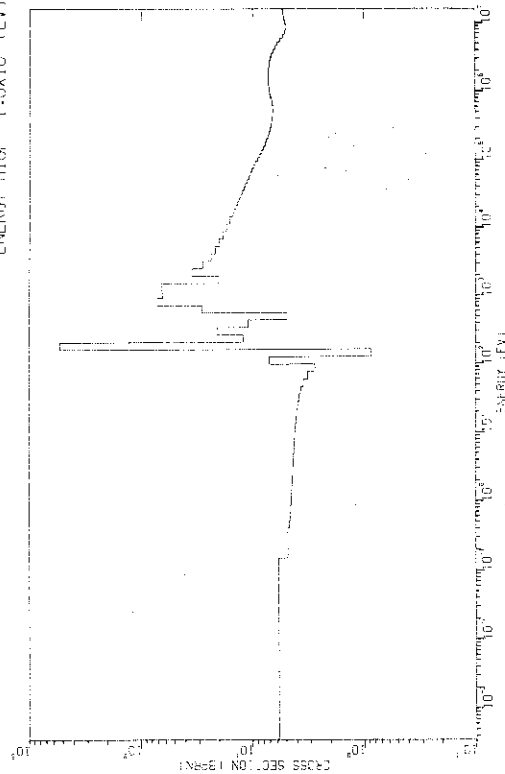
1130 W-184 FROM ENDF/B-IV (300K)

101AL

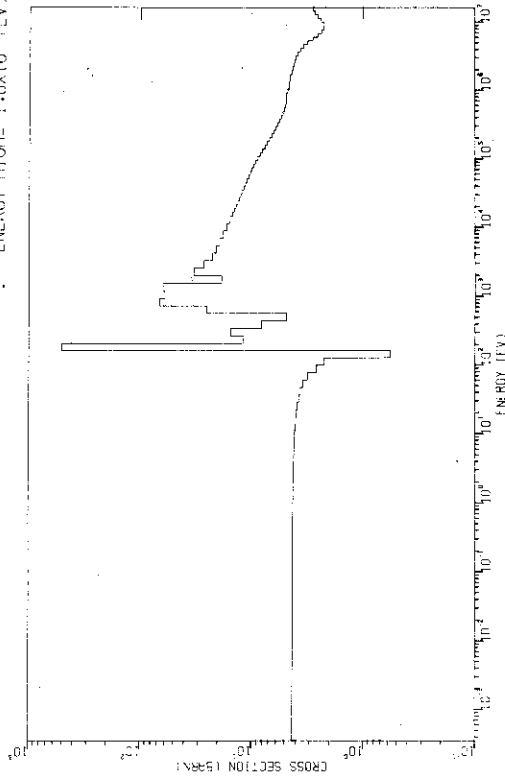
1130 W-184 FROM ENDF/B-IV (300K)

FIARS

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



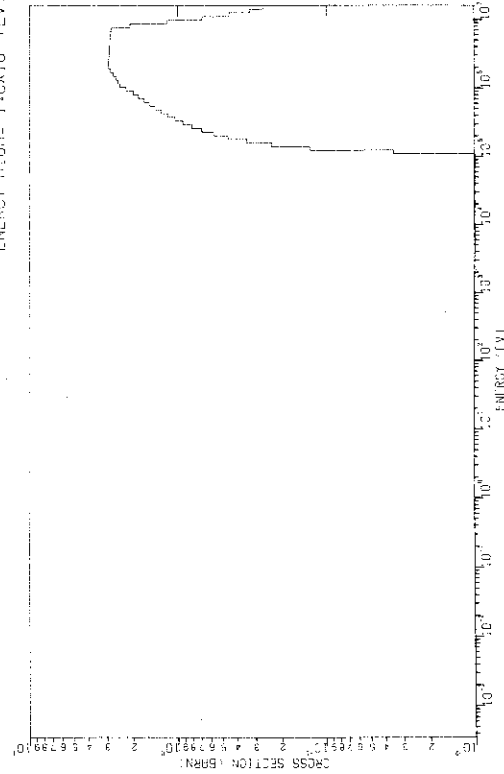
1130 W-184 FROM ENDF/B-IV (300K)

UNELPS

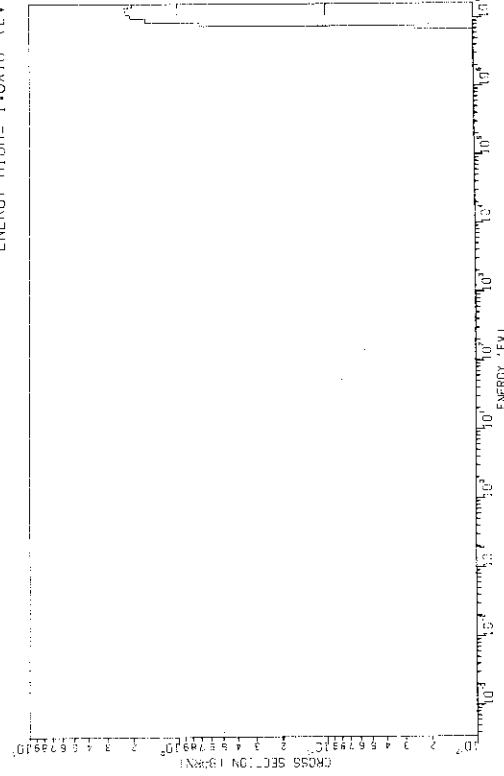
1130 W-184 FROM ENDF/B-IV (300K)

(N,ZN)

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



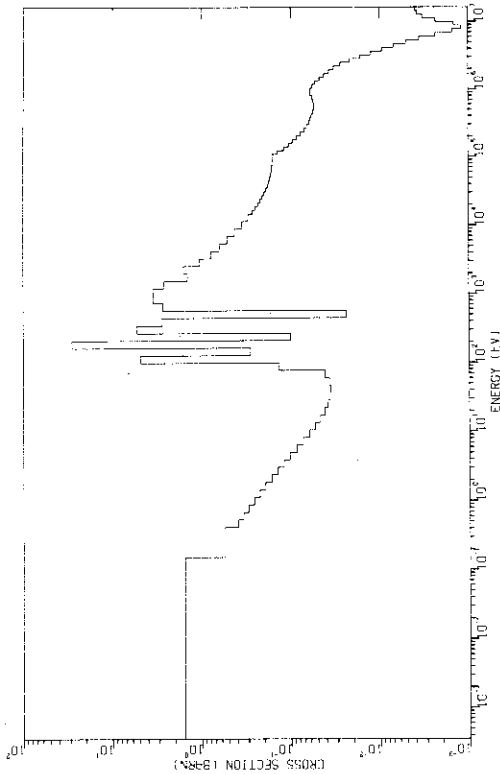
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV (300K)

(N.G)

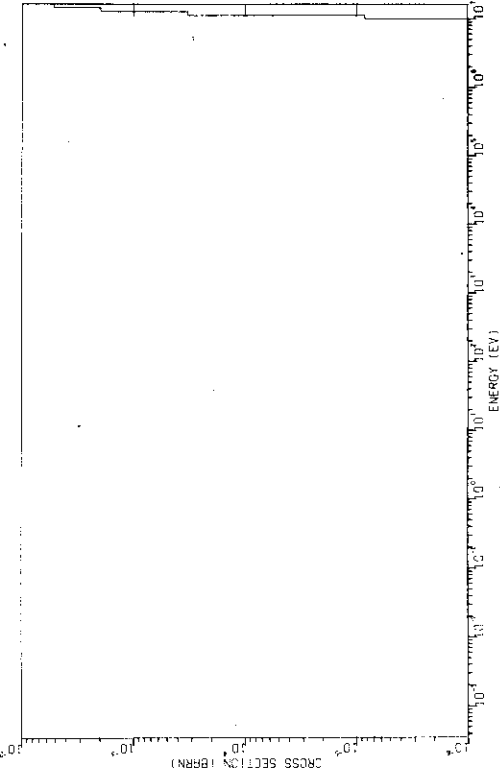
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV (300K)

(N.P)

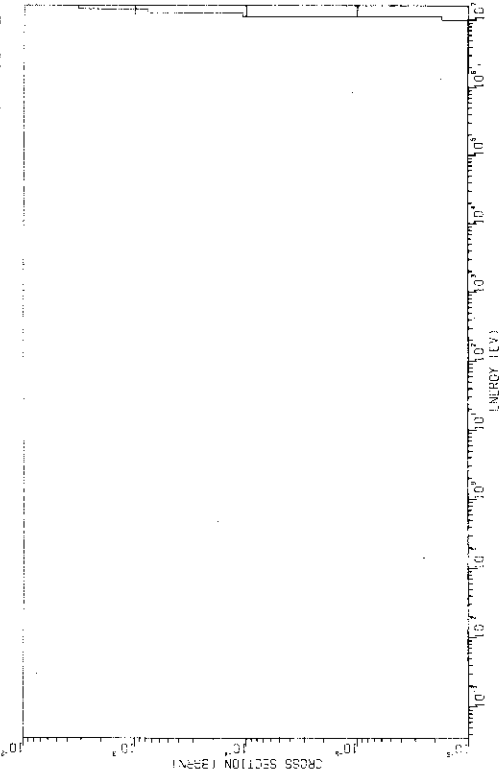
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV (300K)

(N.A)

TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV (300K)

CAPTURE

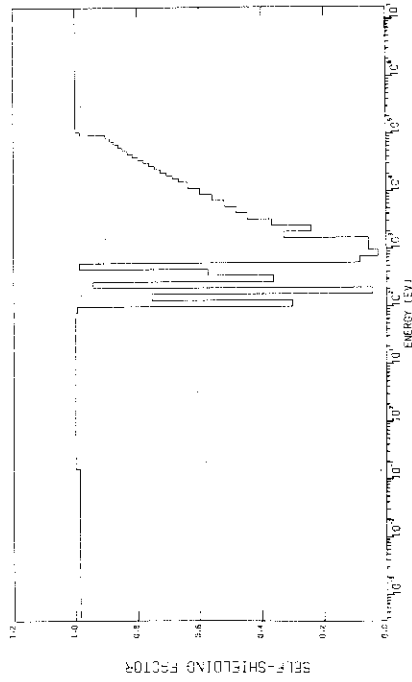
TEMPERATURE = 300 K  
SIG0 = 1.00000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV (300K)

TOTAL

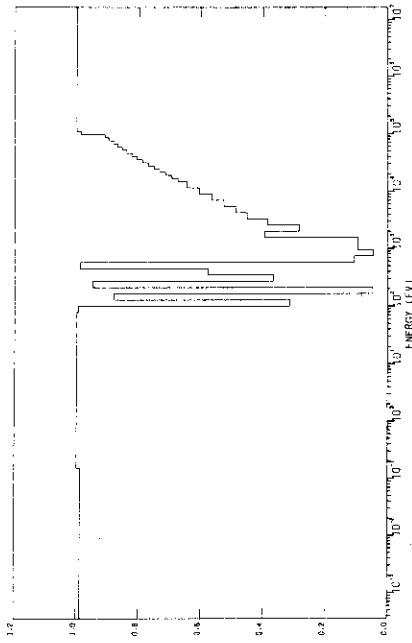
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV (300K)

TOTAL

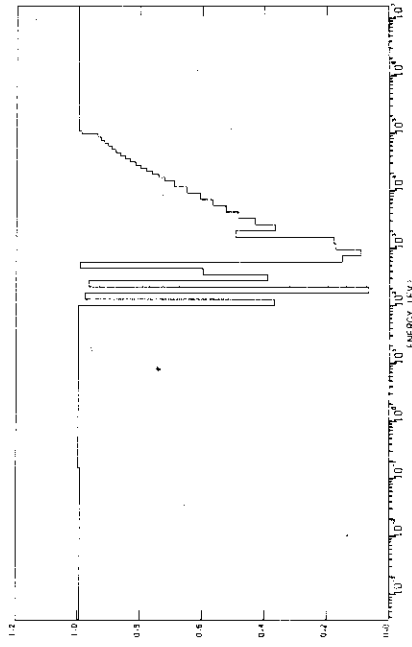
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV (300K)

TOTAL

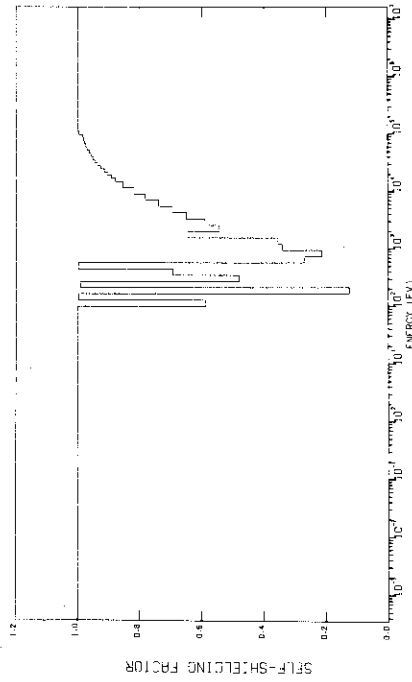
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV (300K)

TOTAL

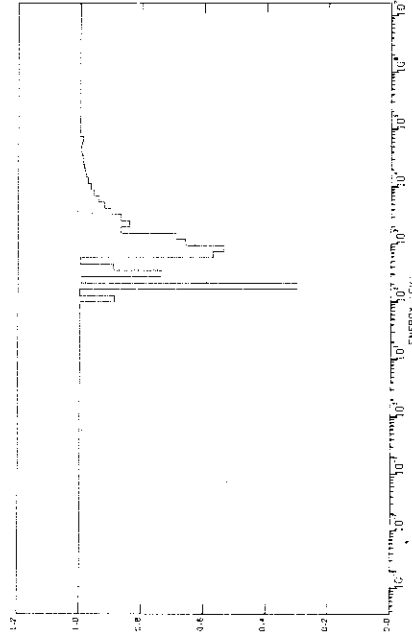
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV (300K)

TOTAL

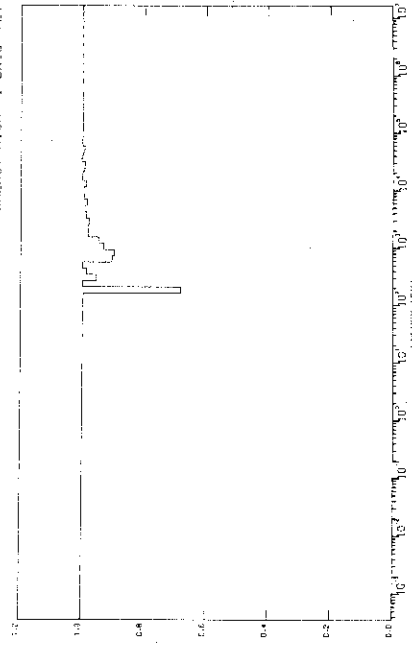
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV (300K)

TOTAL

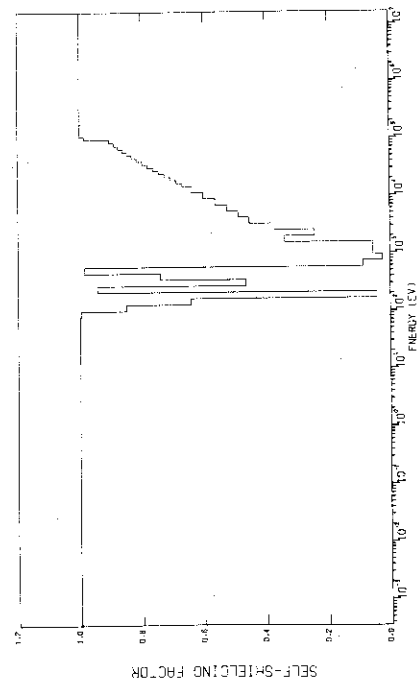
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV ( 300K )

ELAS

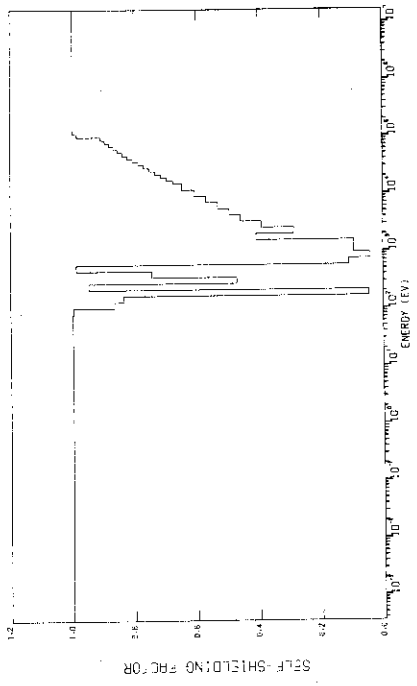
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV ( 300K )

ELAS

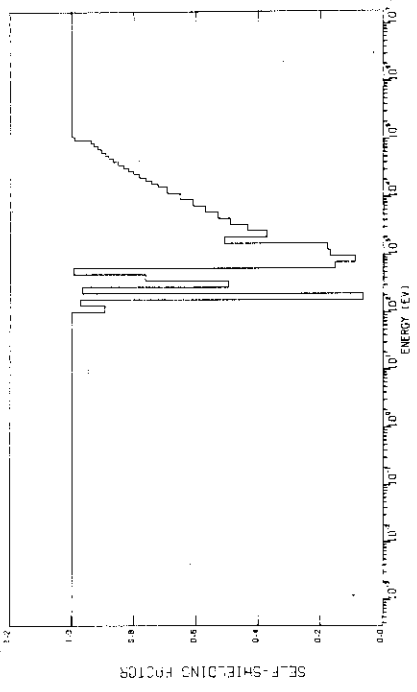
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV ( 300K )

ELAS

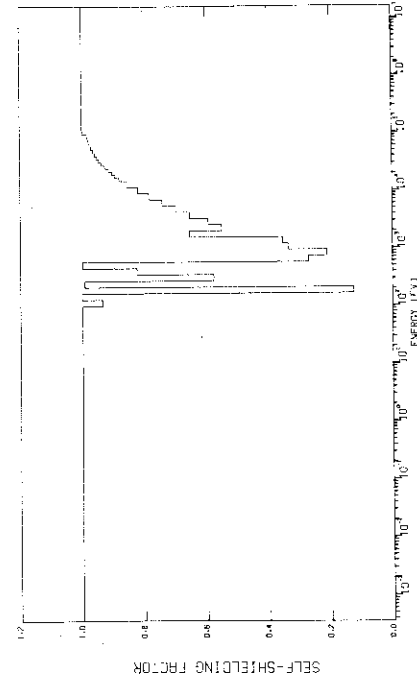
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV ( 300K )

ELAS

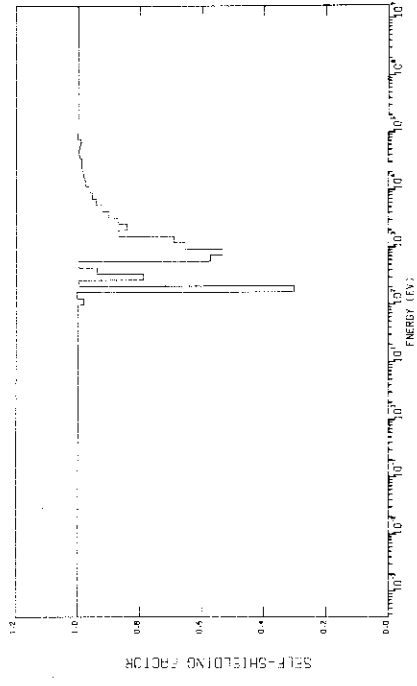
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV ( 300K )

ELAS

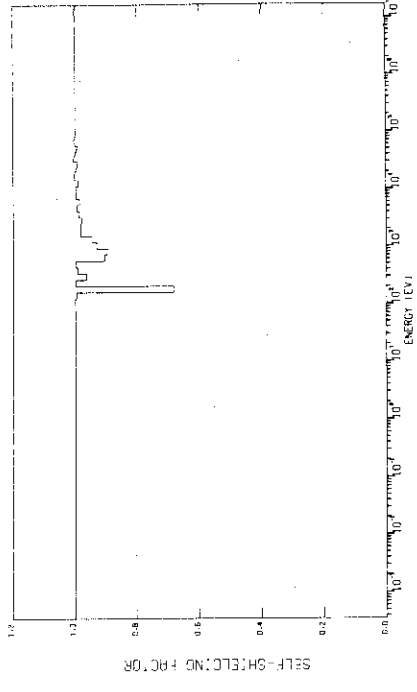
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1130 W-184 FROM ENDF/B-IV ( 300K )

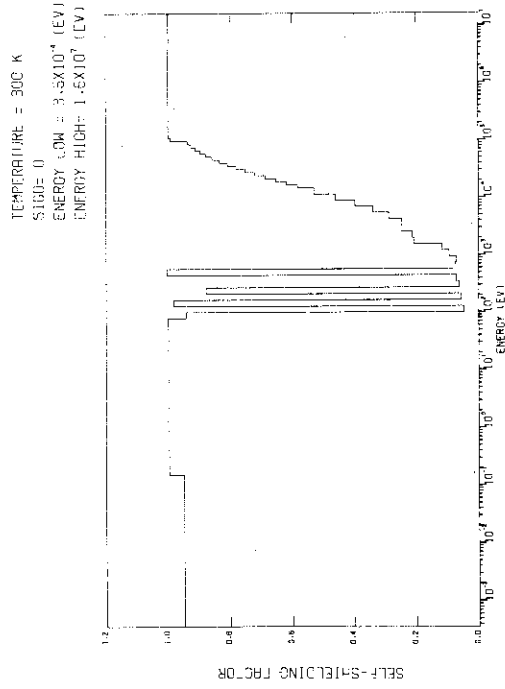
ELAS

TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



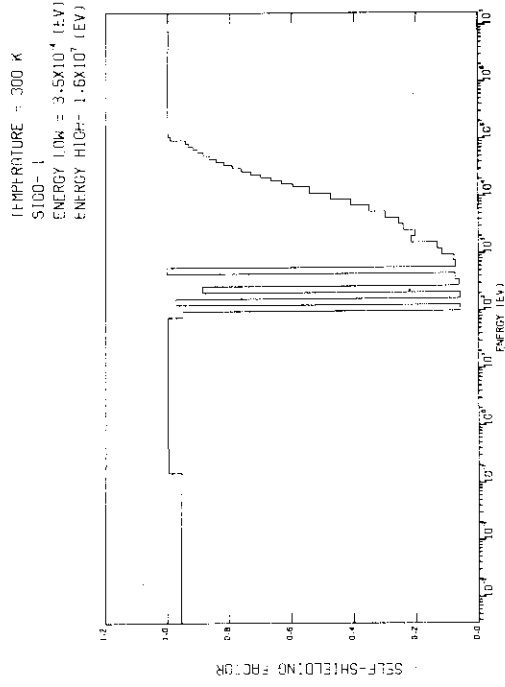
1130 W-184 FROM ENDF/B-IV ( 300K )

CAPTURE



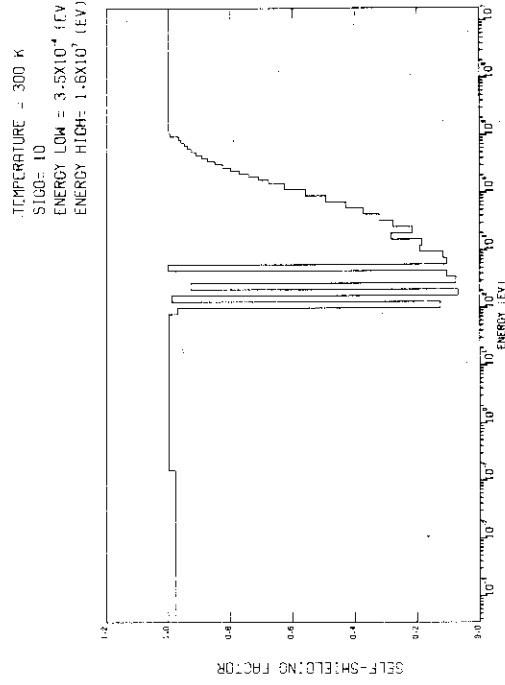
1130 W-184 FROM ENDF/B-IV ( 300K )

CAPTURE



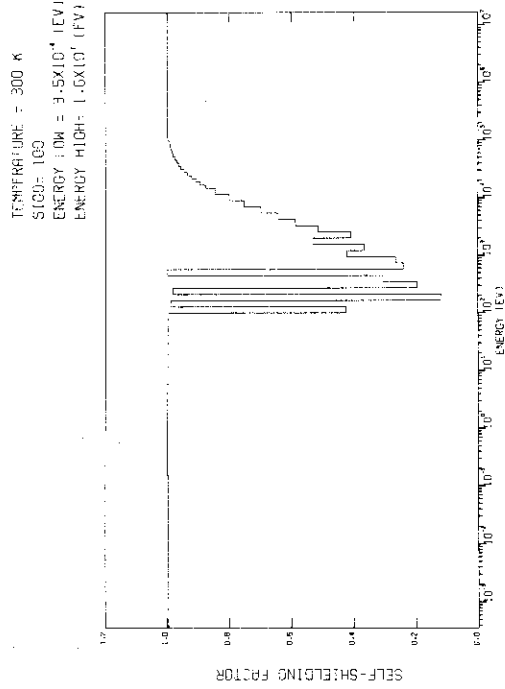
1130 W-184 FROM ENDF/B-IV ( 300K )

CAPTURE



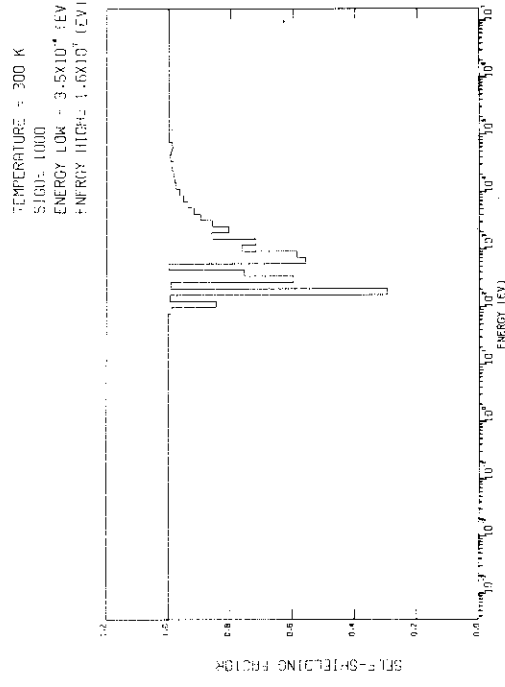
1130 W-184 FROM ENDF/B-IV ( 300K )

CAPTURE



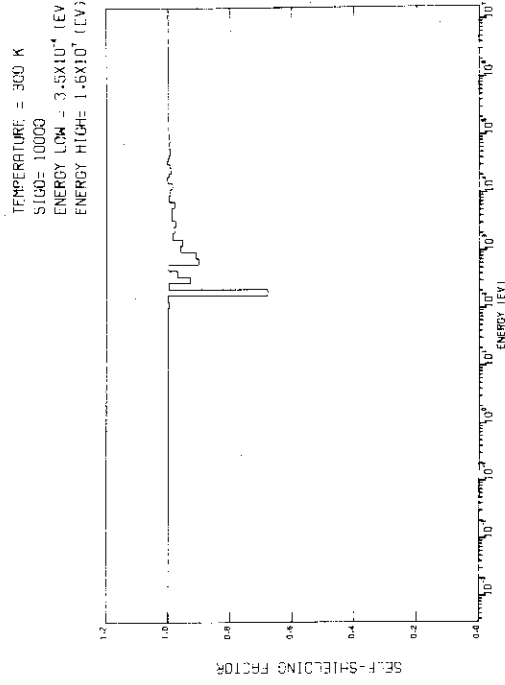
1130 W-184 FROM ENDF/B-IV ( 300K )

CAPTURE



1130 W-184 FROM ENDF/B-IV ( 300K )

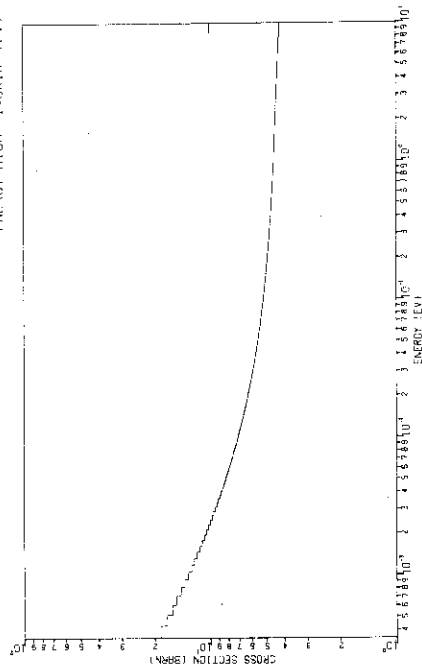
CAPTURE



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 1

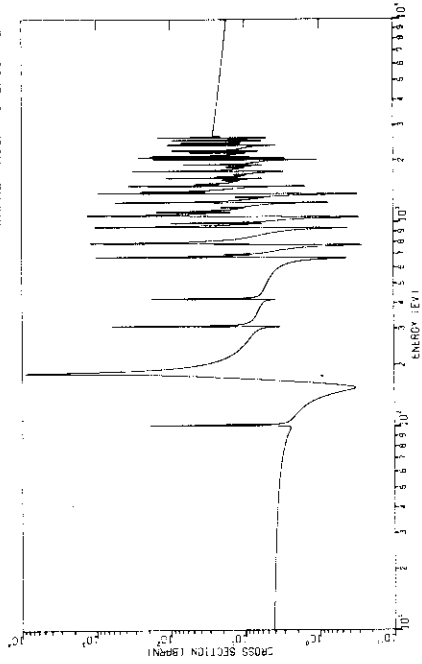
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 1

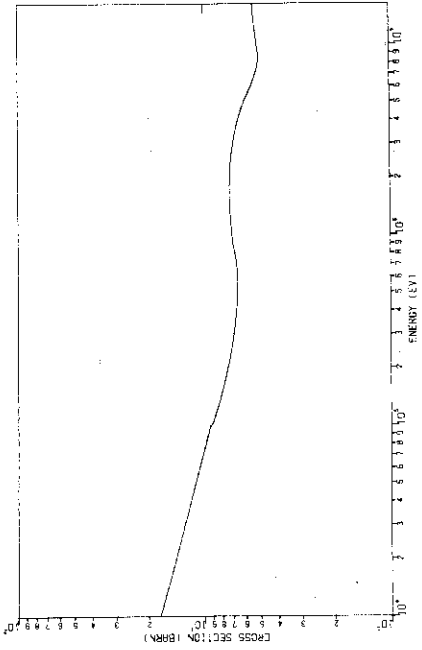
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 1

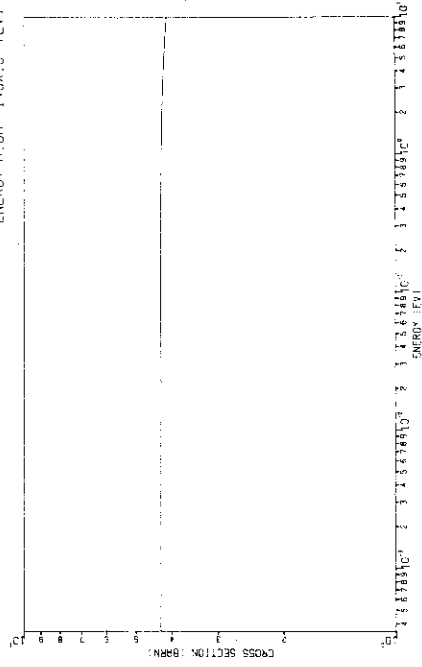
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 2

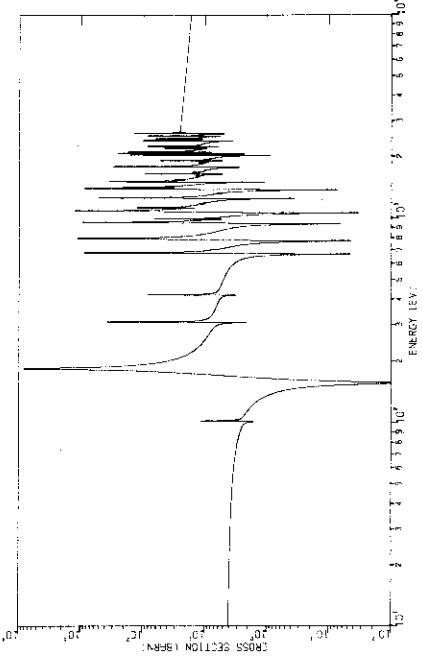
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 2

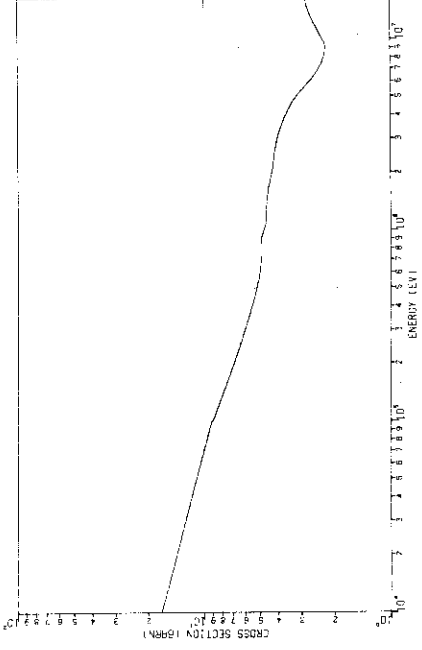
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 2

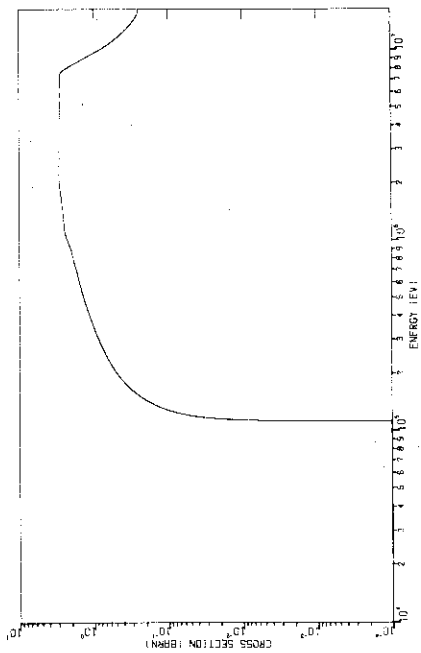
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 4

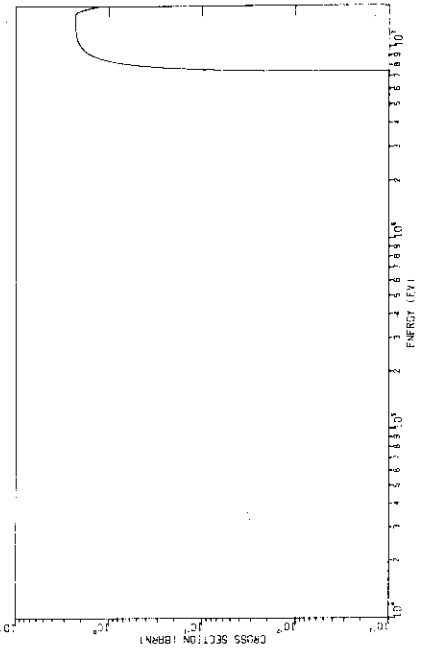
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 16

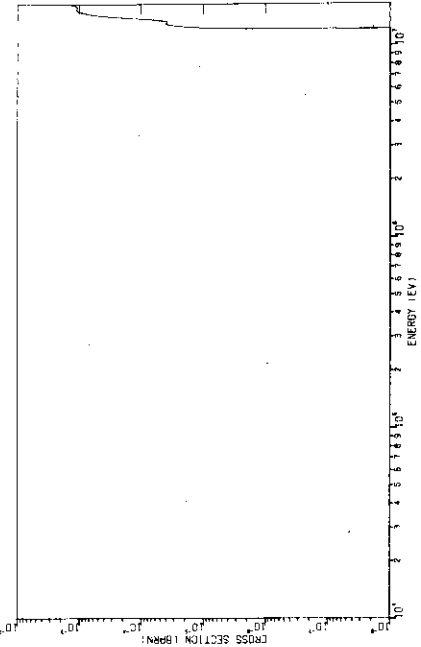
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 28

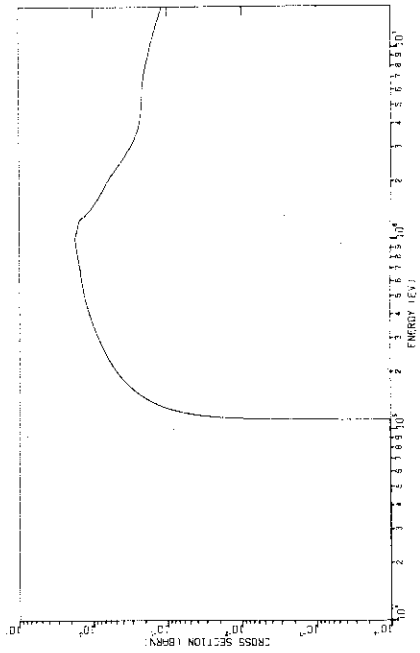
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 51

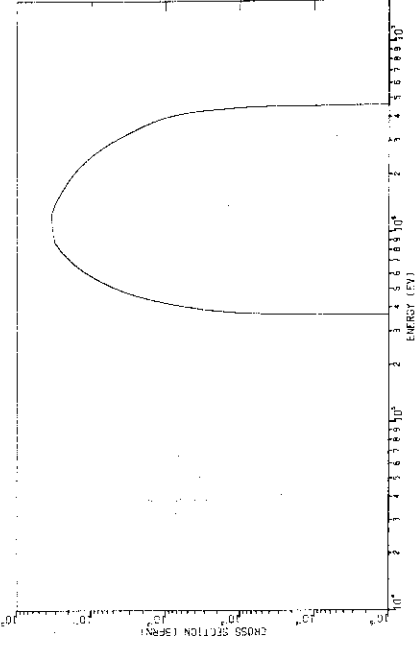
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 52

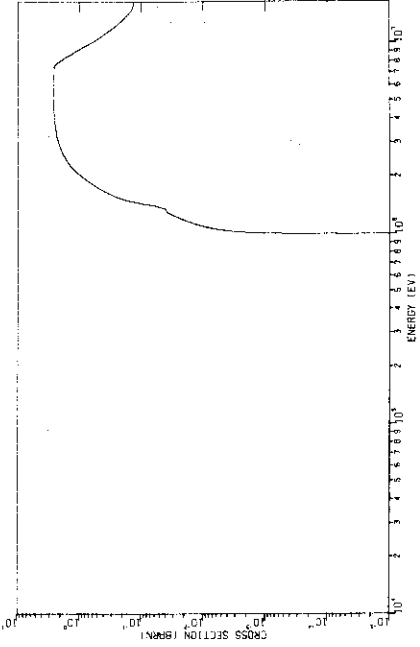
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 91

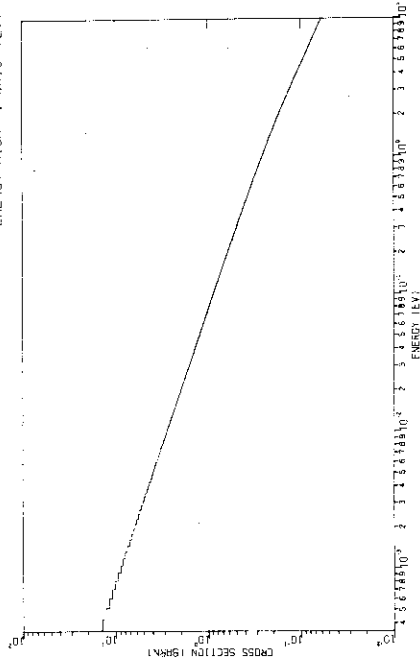
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 102

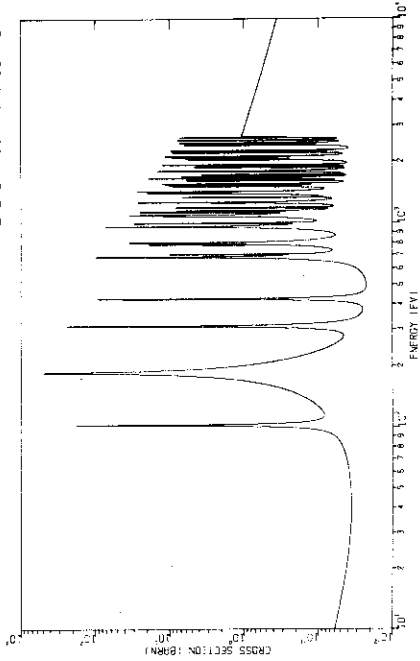
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-8</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 102

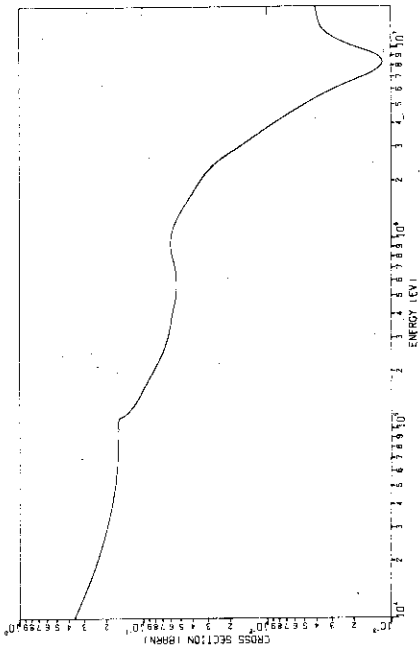
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>8</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 102

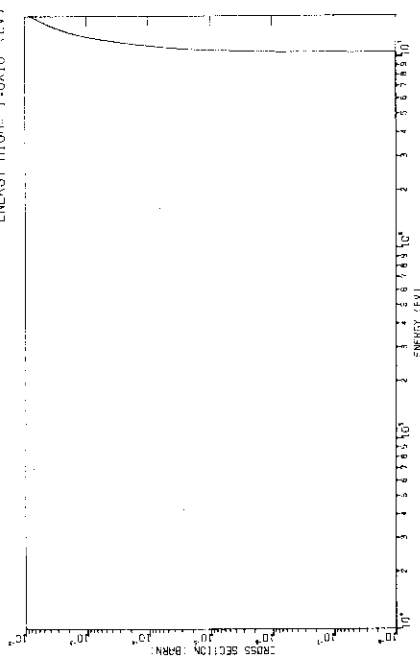
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>8</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 103

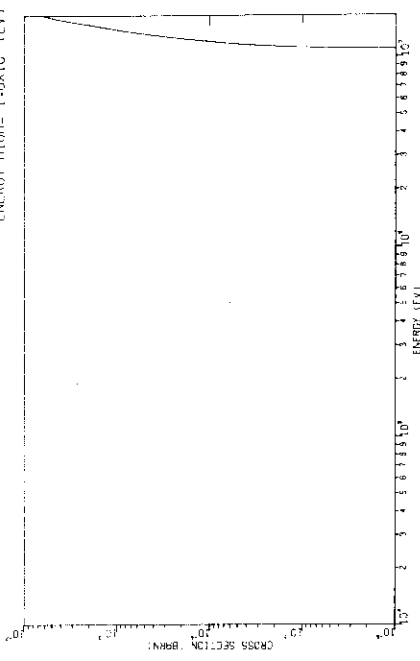
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>8</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



1130 W-184 FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>8</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)





1131 K-186 FROM ENDF/B-IV ( 300K )

TOTAL

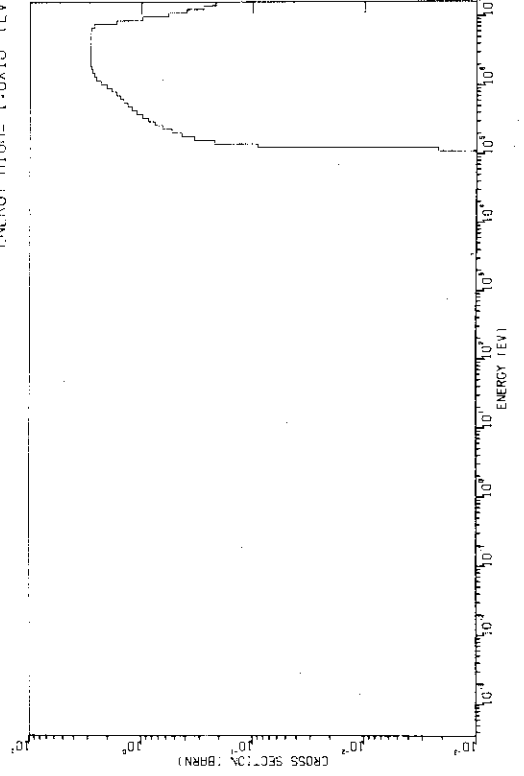
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

INFHS

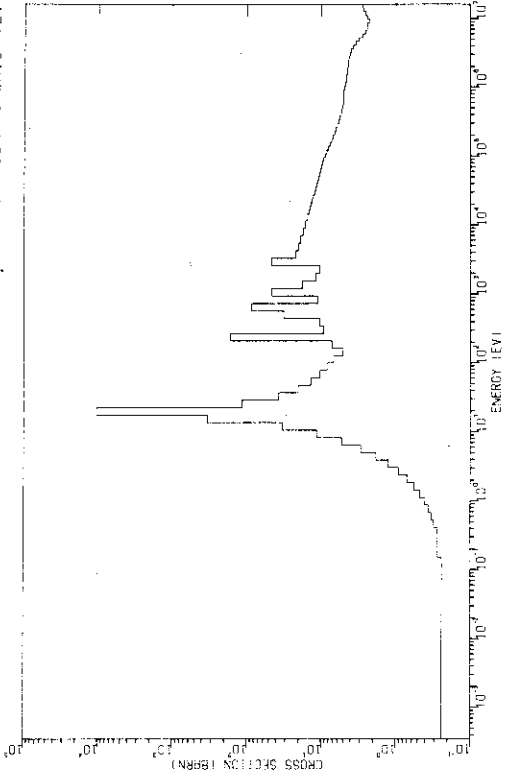
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

ELIAS

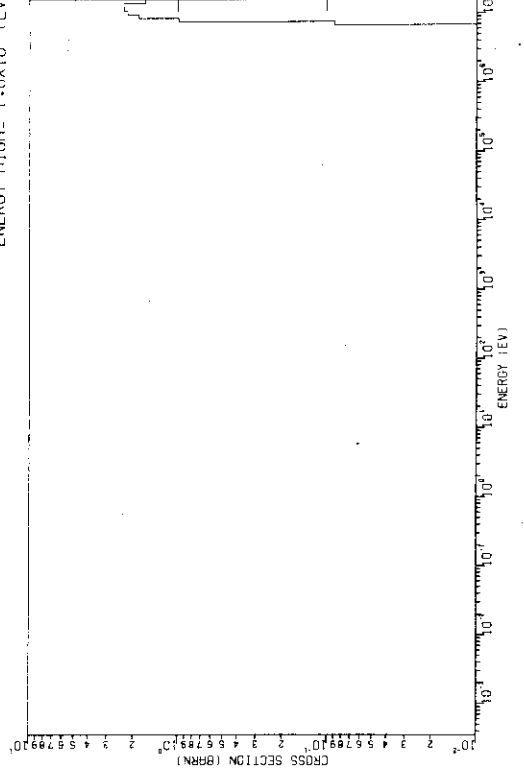
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

(N,2N)

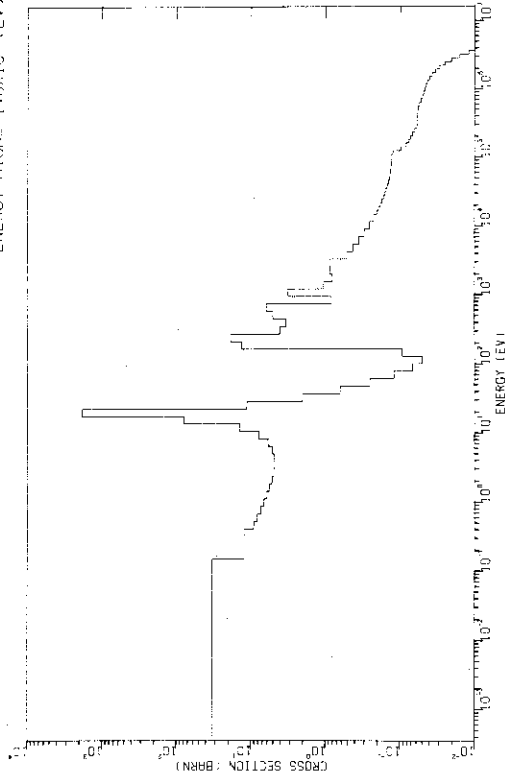
TEMPERATURE = 300 K  
SIGO= 100000000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH=  $1.6 \times 10^7$  (EV)



1131 k-186 FROM ENDF/B-IV ( 300K )

( N.B )

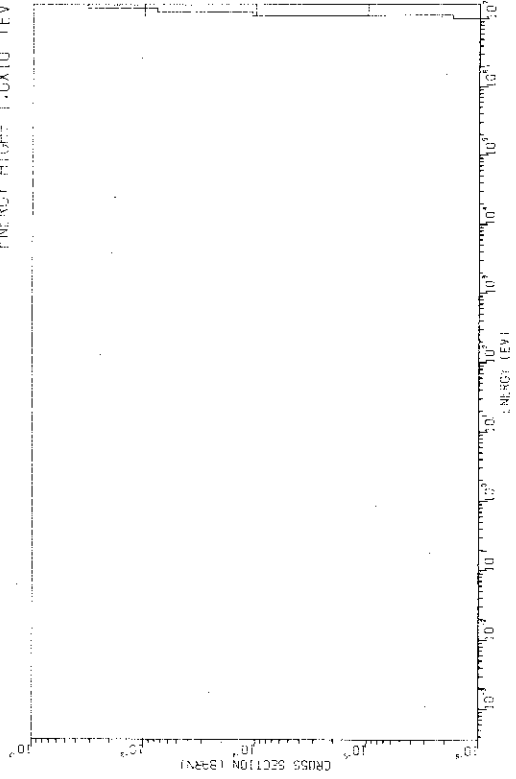
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

( N.A )

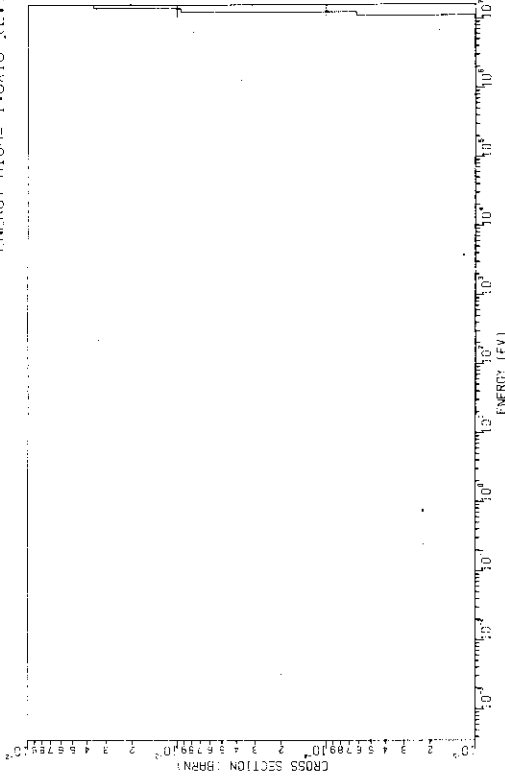
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 2.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 k-186 FROM ENDF/B-IV ( 300K )

( N.P )

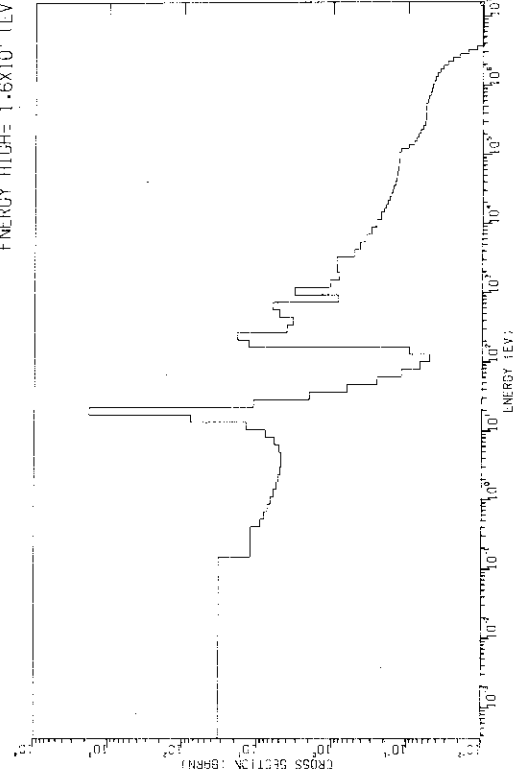
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

CAPTURE

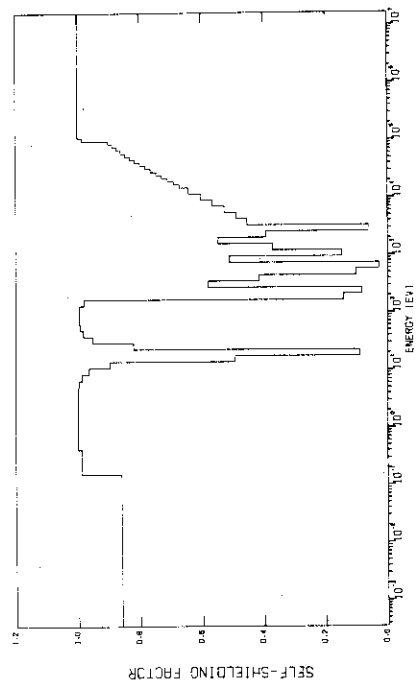
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

TOTAL

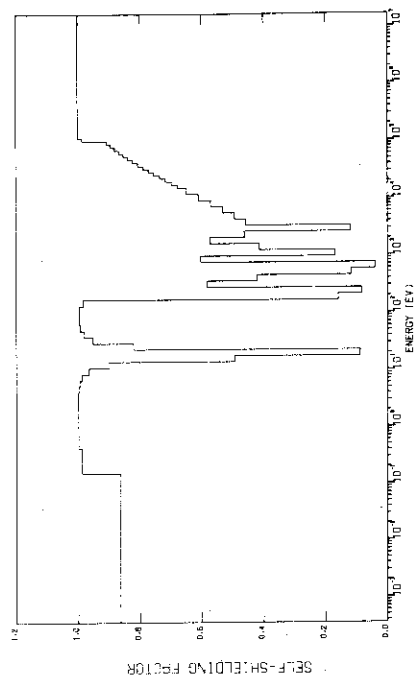
TEMPERATURE = 300 K  
S100= 0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B IV ( 300K )

TOTAL

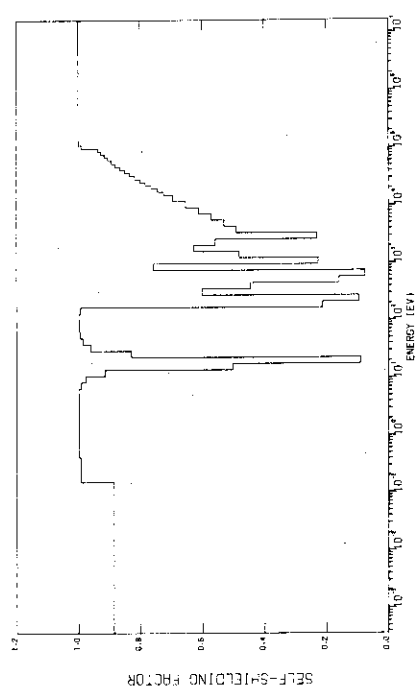
TEMPERATURE = 300 K  
S100= 1  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

TOTAL

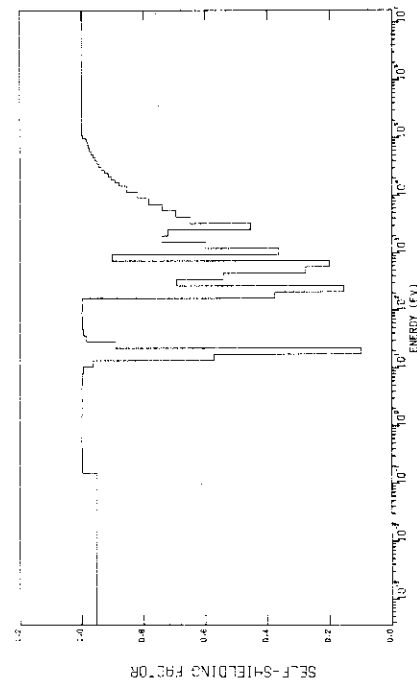
TEMPERATURE = 300 K  
S100= 10  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

TOTAL

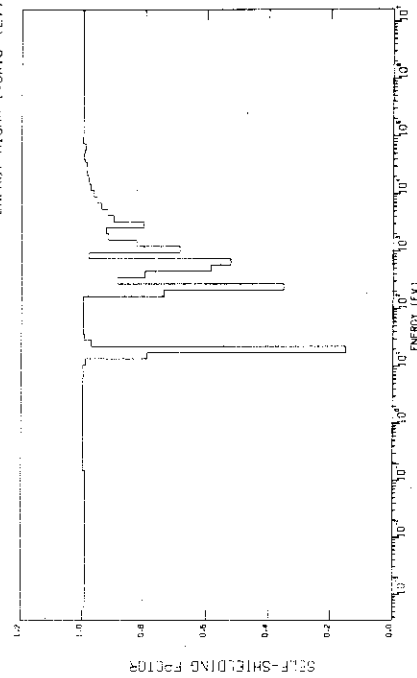
TEMPERATURE = 300 K  
S100= 100  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

TOTAL

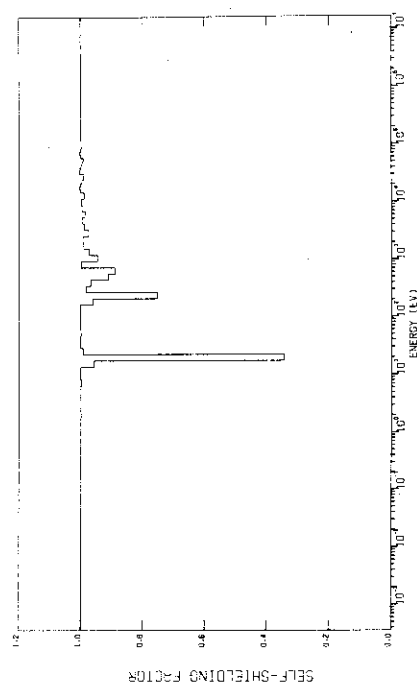
TEMPERATURE = 300 K  
S100= 1000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



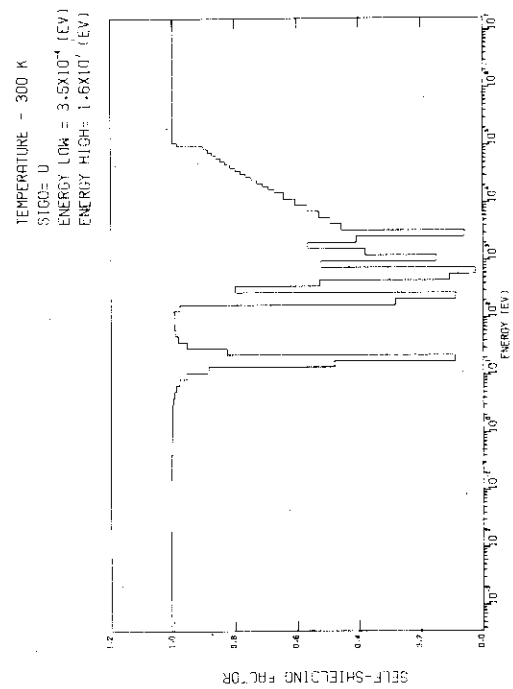
1131 W-186 FROM ENDF/B-IV ( 300K )

TOTAL

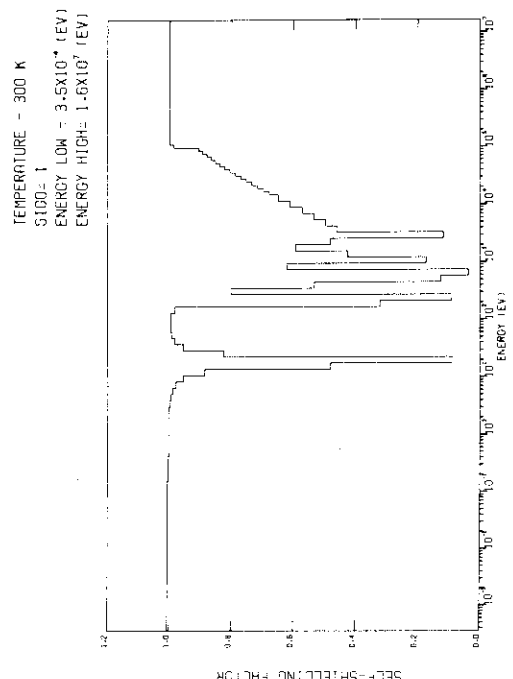
TEMPERATURE = 300 K  
S100= 10000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



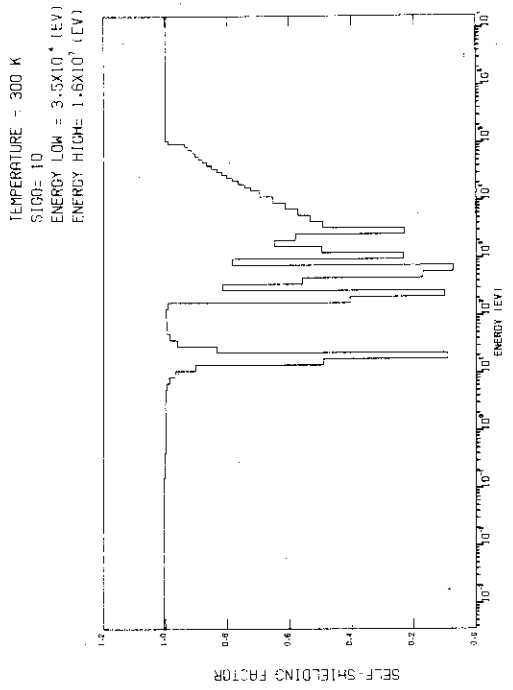
1131 W-186 FROM ENDF/B-IV ( 300K ) ELIAS



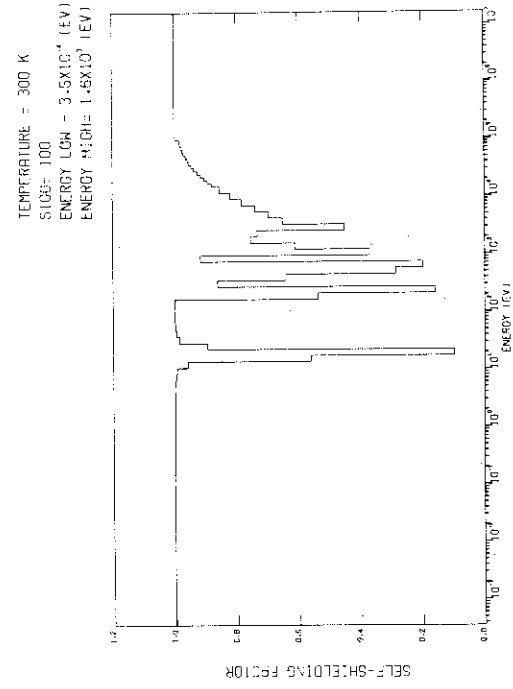
1131 W-186 FROM ENDF/B-IV ( 300K ) FLAS



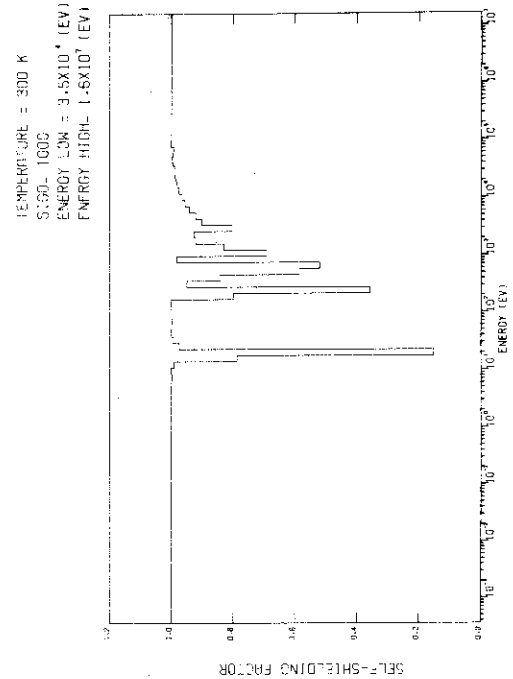
1131 W-186 FROM ENDF/B-IV ( 300K ) ELAS



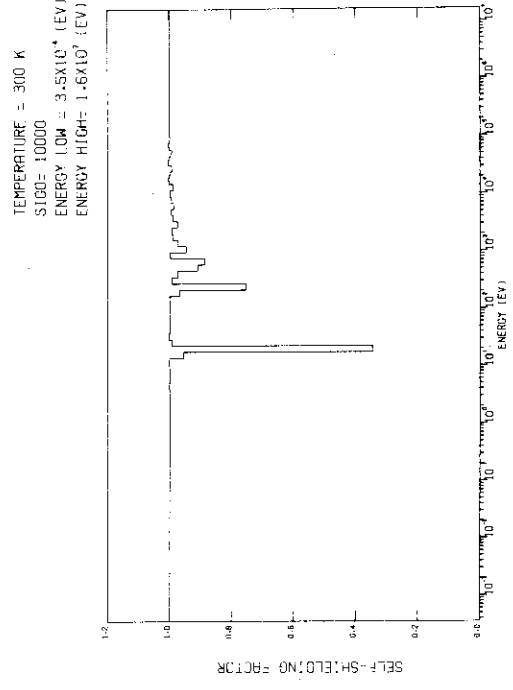
1131 W-186 FROM ENDF/B-IV ( 300K ) ELAS



1131 W-186 FROM ENDF/B-IV ( 300K ) ELAS



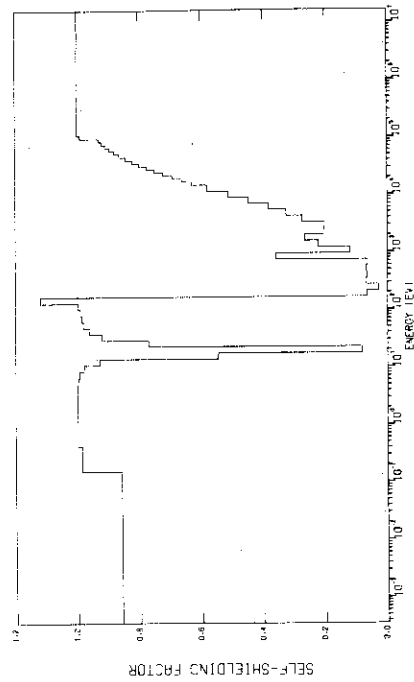
1131 W-186 FROM ENDF/B-IV ( 300K ) ELAS



1131 W-186 FROM ENDF/B-IV ( 300K )

CAPTURE

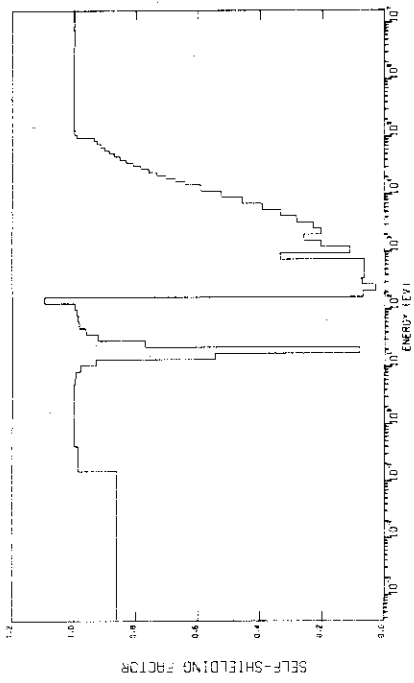
TEMPERATURE = 300 K  
S100= 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

CAPTURE

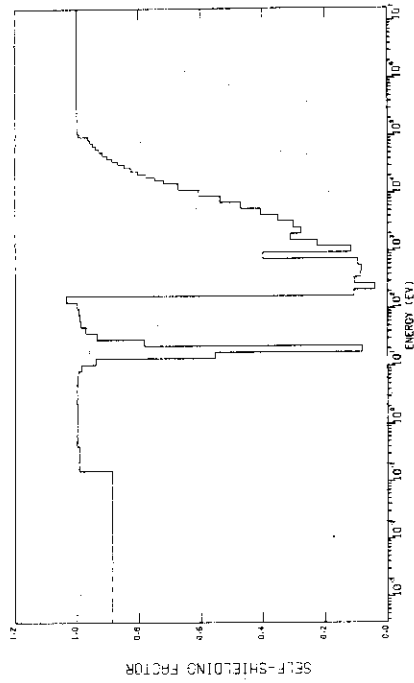
TEMPERATURE = 300 K  
S100= 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

CAPTURE

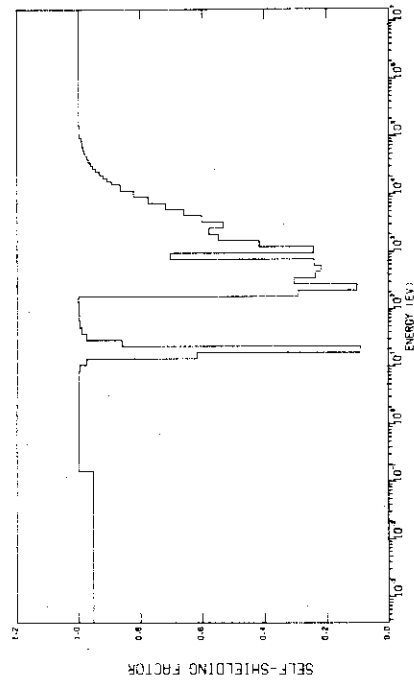
TEMPERATURE = 300 K  
S100= 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

CAPTURE

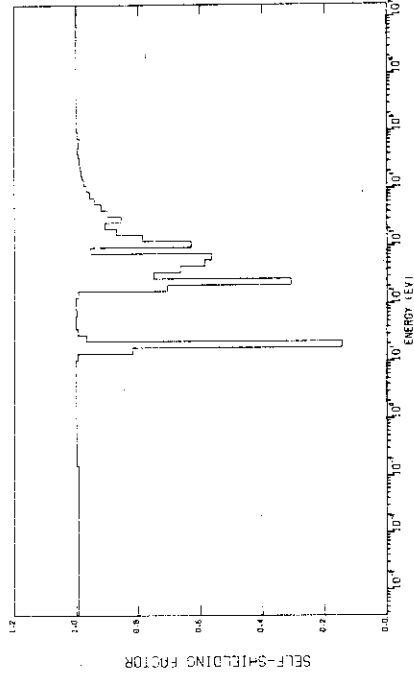
TEMPERATURE = 300 K  
S100= 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

CAPTURE

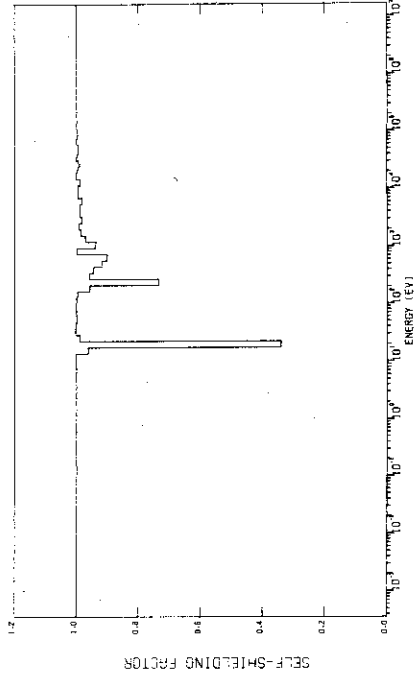
TEMPERATURE = 300 K  
S100= 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1131 W-186 FROM ENDF/B-IV ( 300K )

CAPTURE

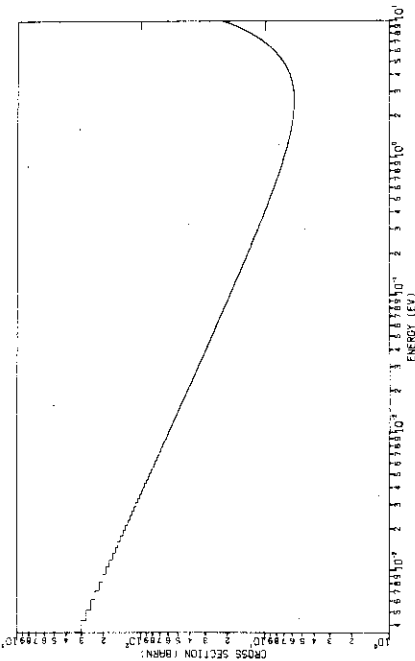
TEMPERATURE = 300 K  
S100= 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 1

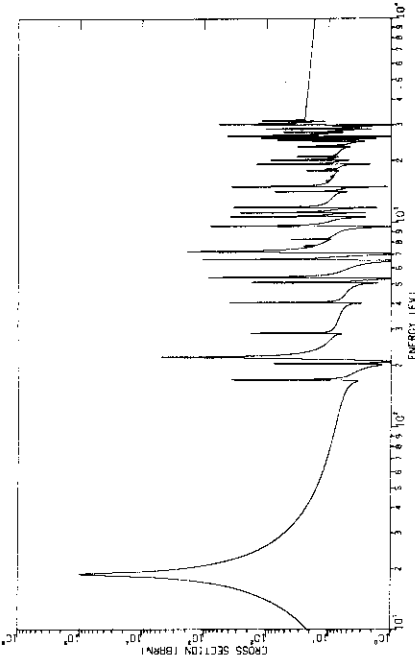
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 1

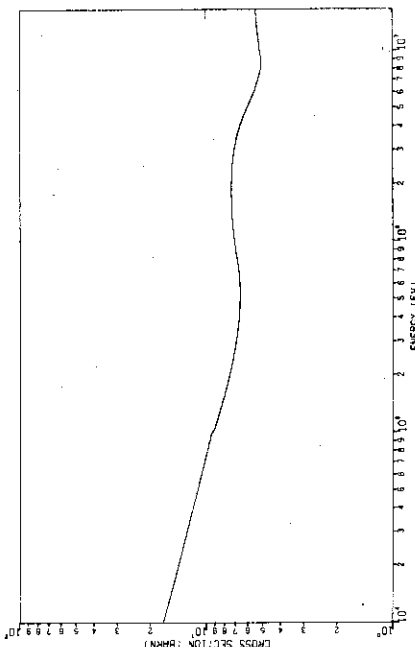
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 1

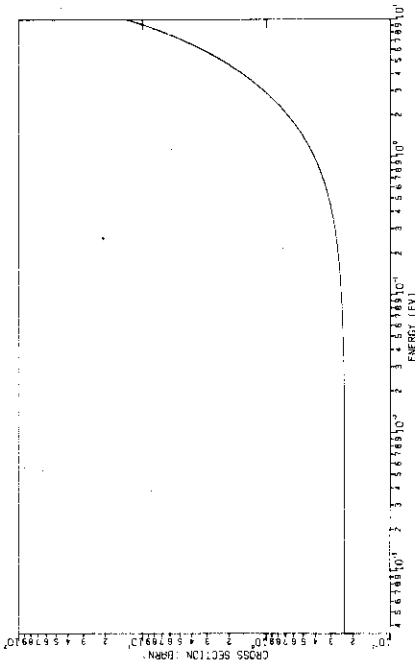
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 2

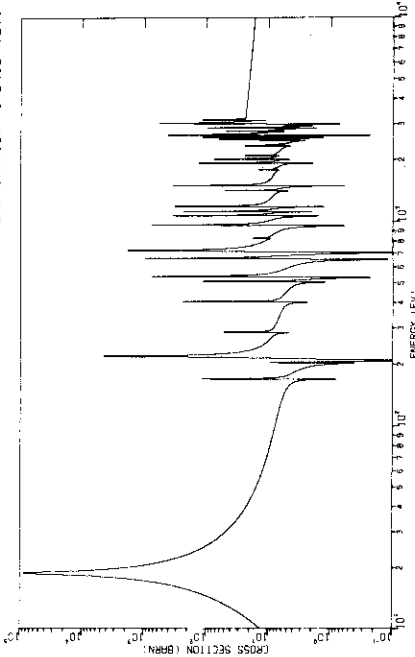
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 2

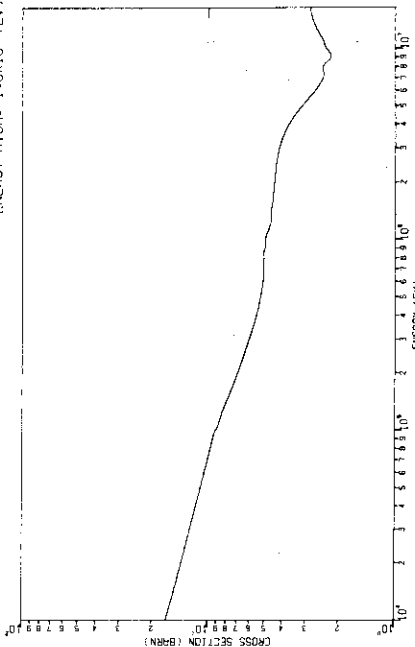
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 2

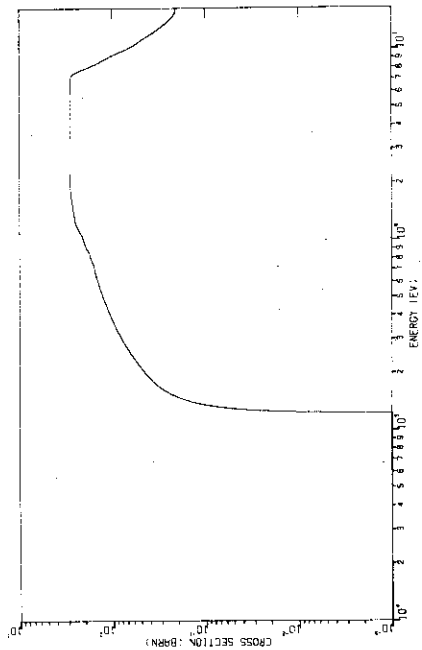
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 4

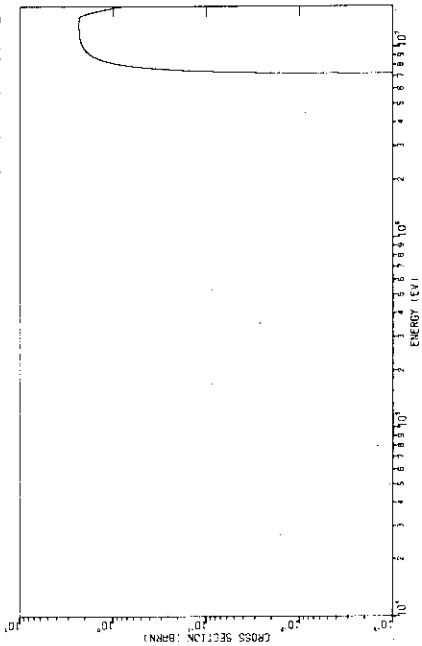
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 16

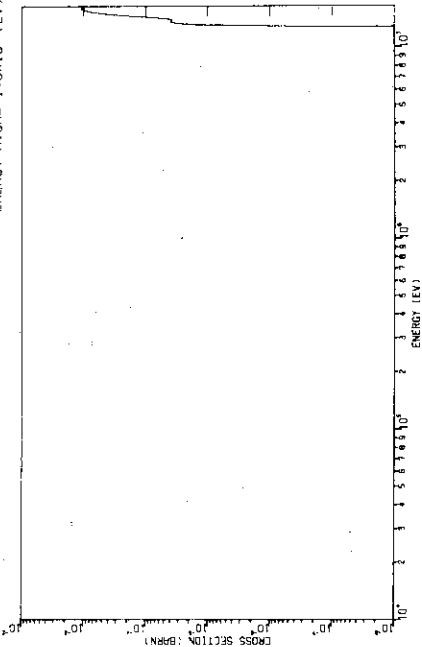
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 28

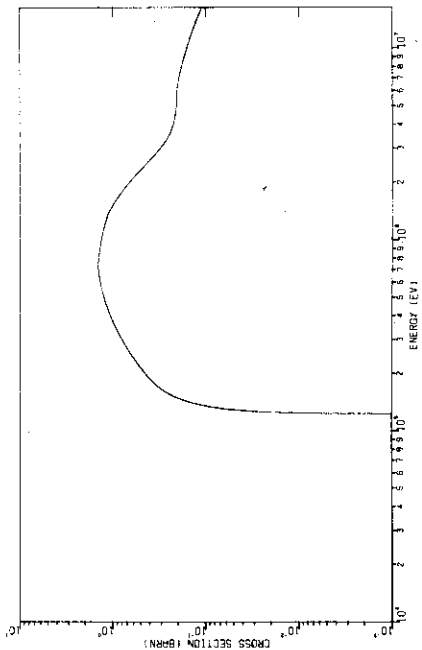
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = S1

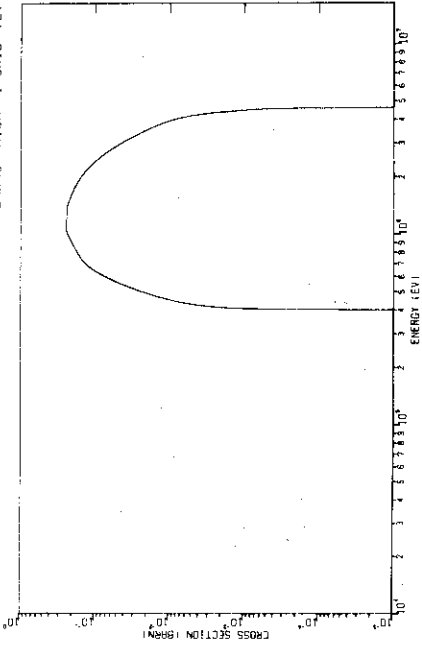
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = S2

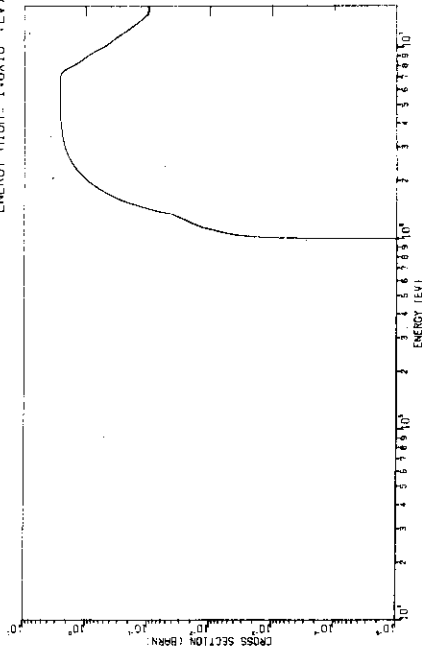
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 91

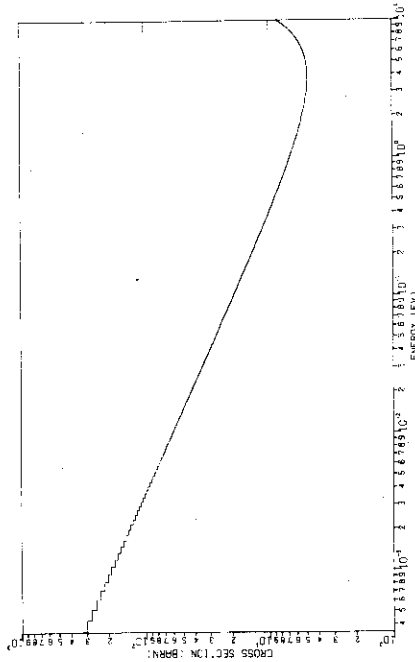
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 102

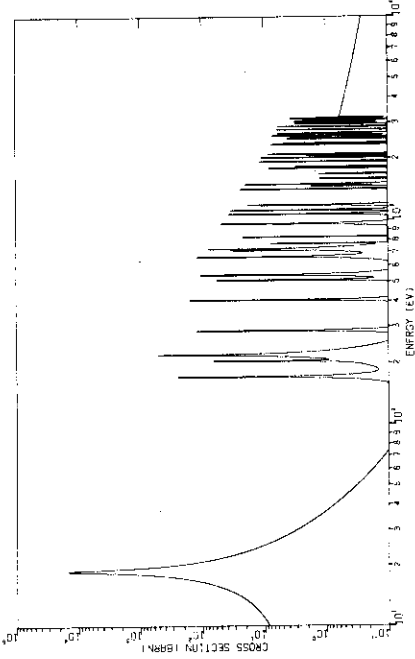
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 102

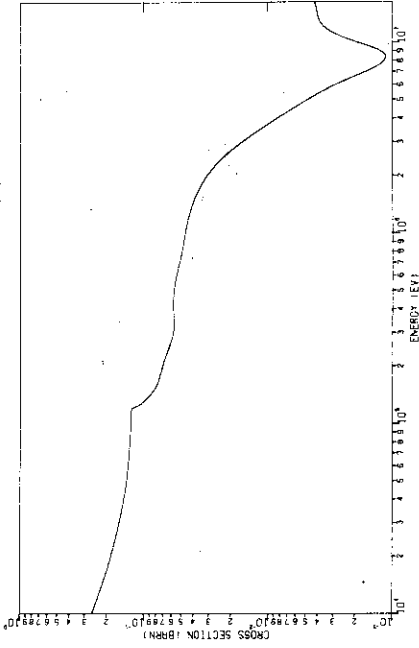
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 102

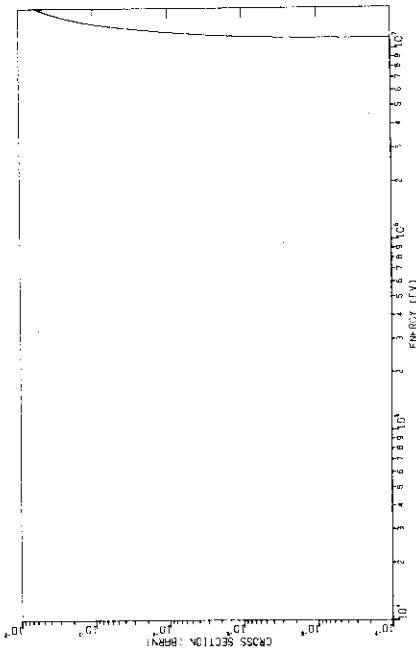
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 103

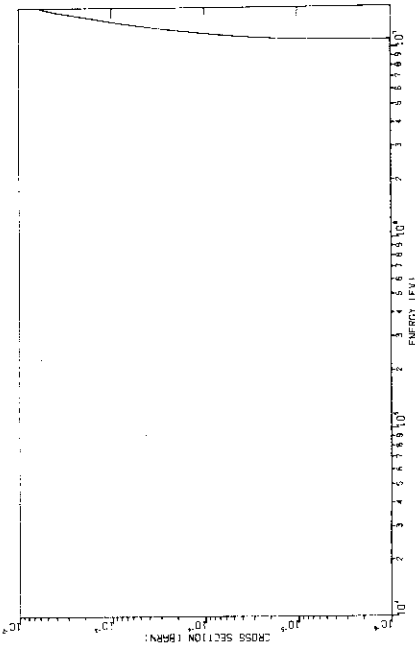
TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1131 W-186 FROM ENDF/B-IV

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0 = 100000000  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)





**197**  
**79** **AU**  
**1283**

JAERI-M 84-053

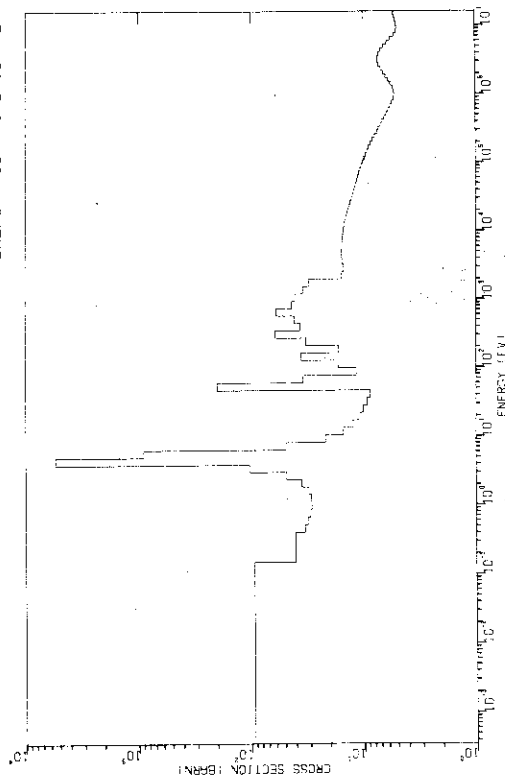
1283 AU FROM ENDF/B-IV ( 300K )

TOTAL

1283 AU FROM ENDF/B-IV ( 300K )

ELFS

TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

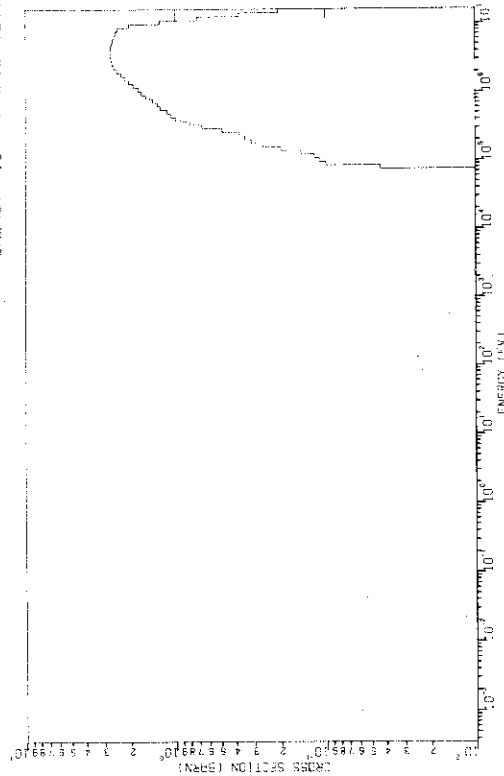


1283 AU FROM ENDF/B-IV ( 300K )

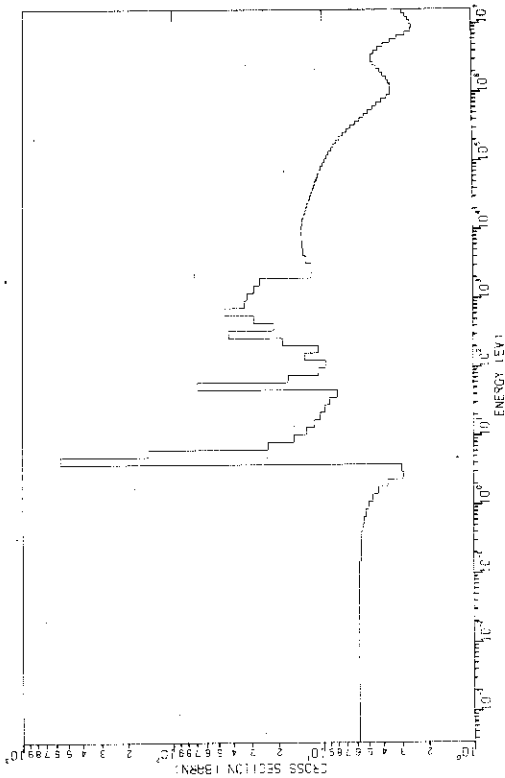
NEAR

(N,ZN)

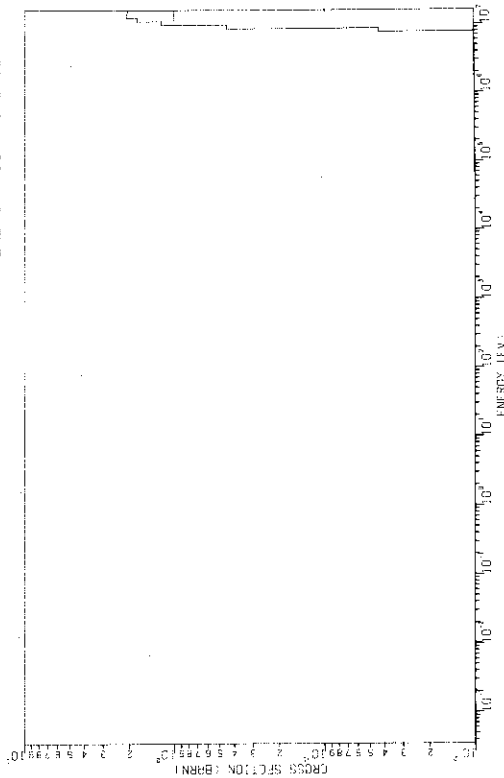
TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

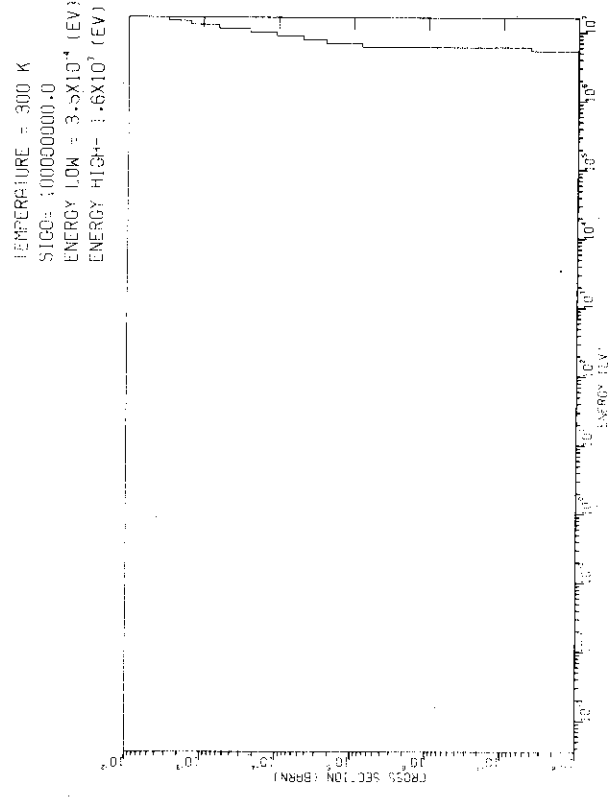


TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



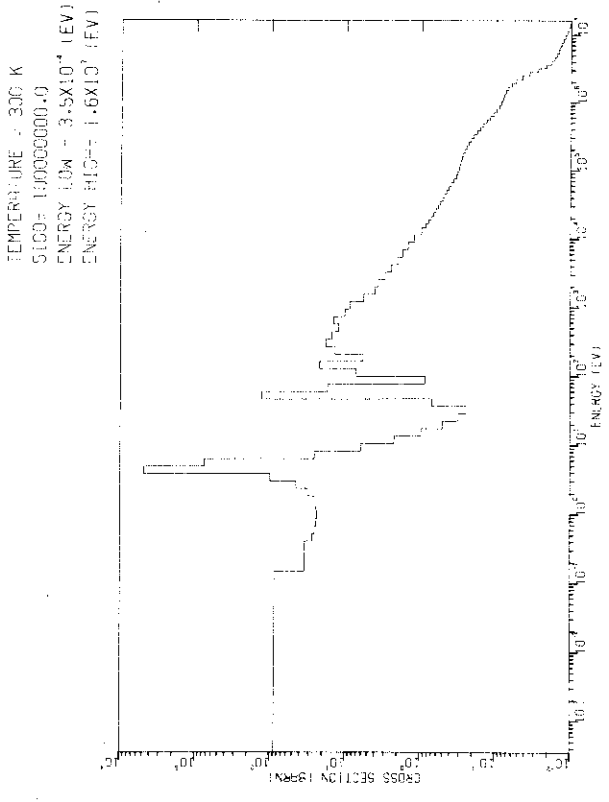
(N.P.)

1283 AU FROM ENDF/B-IV ( 300K )



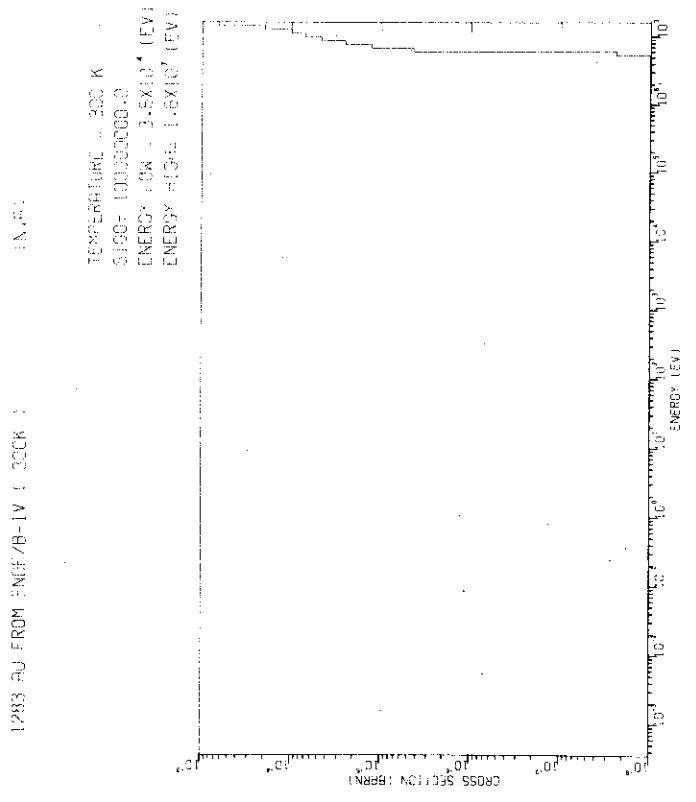
(N.P.)

1283 AU FROM ENDF/B-IV ( 300K )



(N.P.)

1283 AU FROM ENDF/B-IV ( 300K )



(N.P.)

1283 AU FROM ENDF/B-IV ( 300K )

CAPTURE

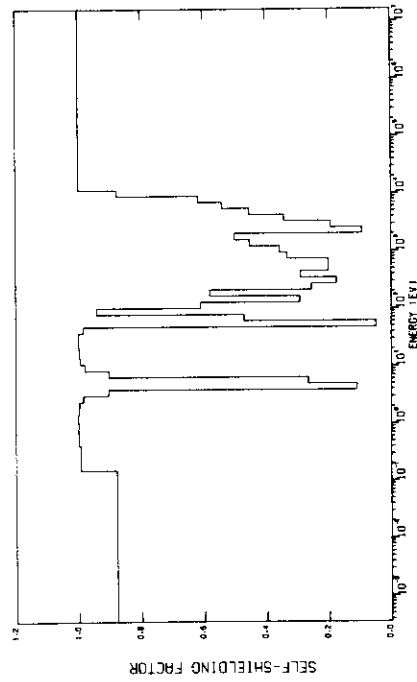
197 Au  
79  
1283

JAERI-M 84-053

1283 AU FROM ENDF/B-IV ( 300K )

TOTAL

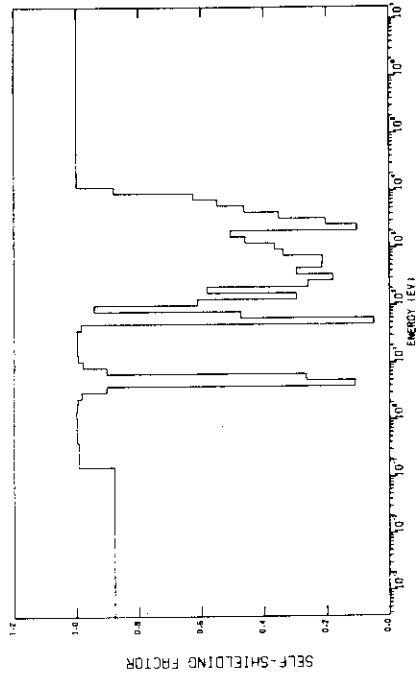
TEMPERATURE = 300 K  
SIG0= 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

TOTAL

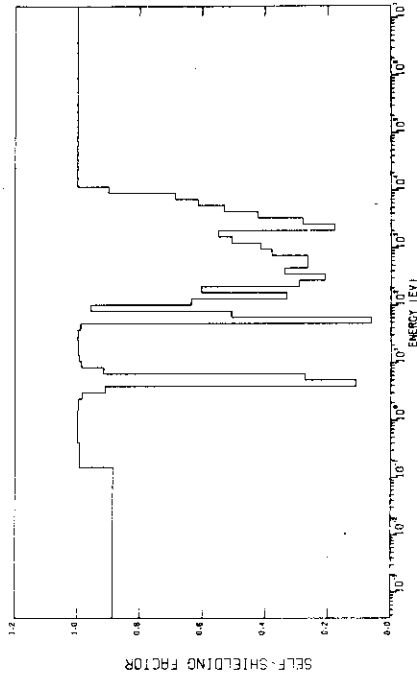
TEMPERATURE = 300 K  
SIG0= 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

TOTAL

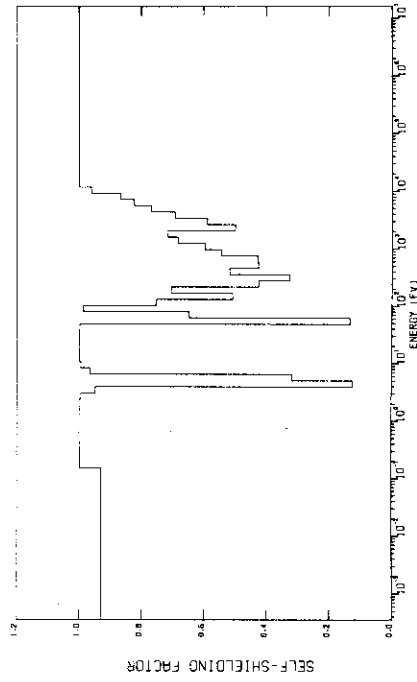
TEMPERATURE = 300 K  
SIG0= 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

TOTAL

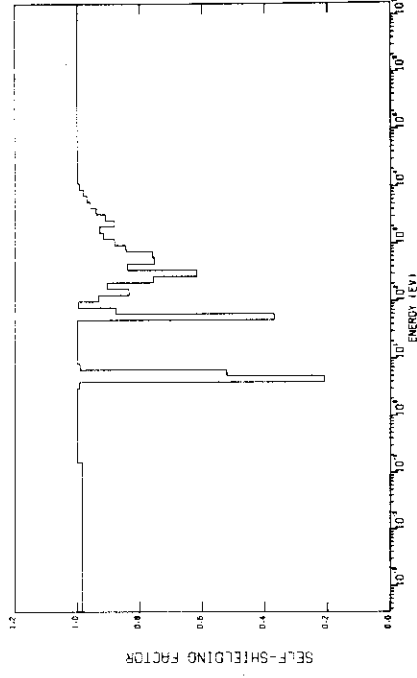
TEMPERATURE = 300 K  
SIG0= 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

TOTAL

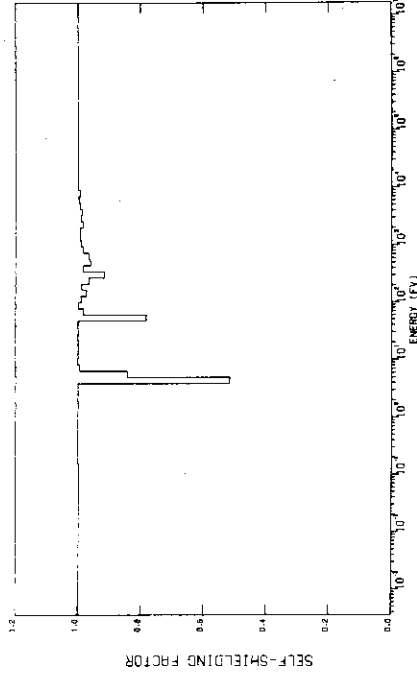
TEMPERATURE = 300 K  
SIG0= 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

TOTAL

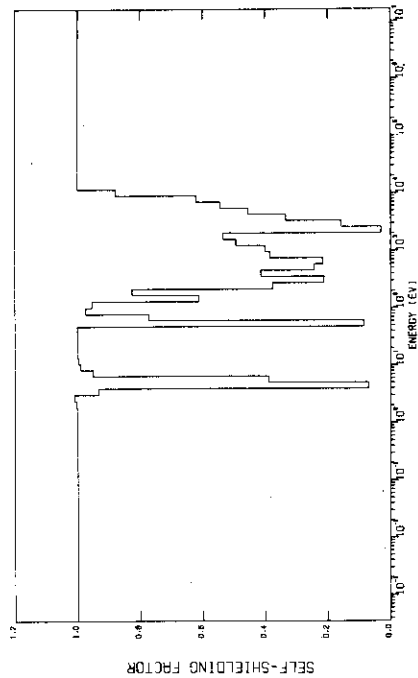
TEMPERATURE = 300 K  
SIG0= 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

ELAS

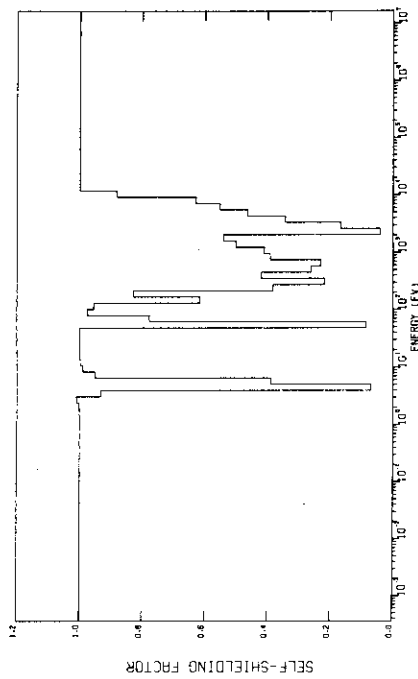
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

ELAS

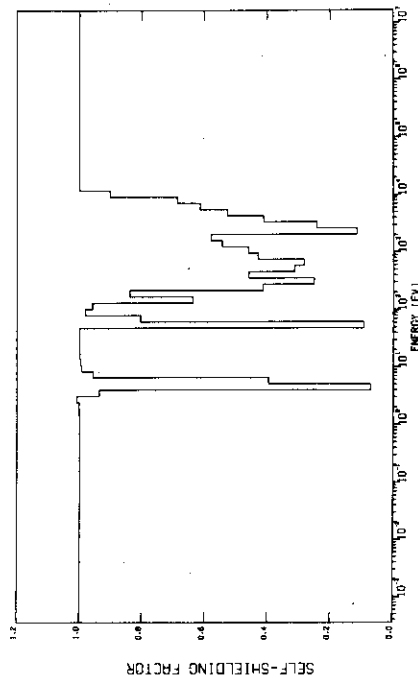
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

ELAS

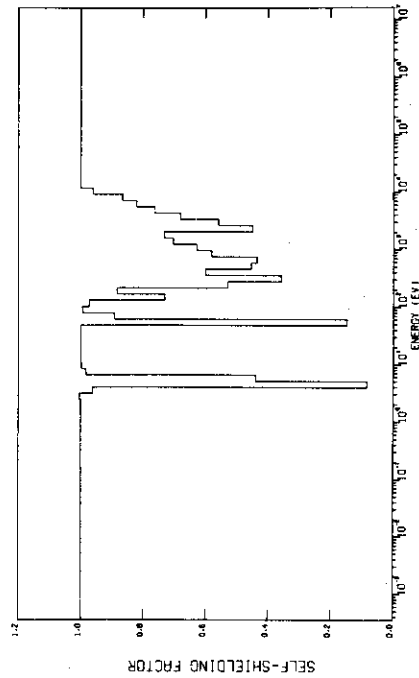
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

ELAS

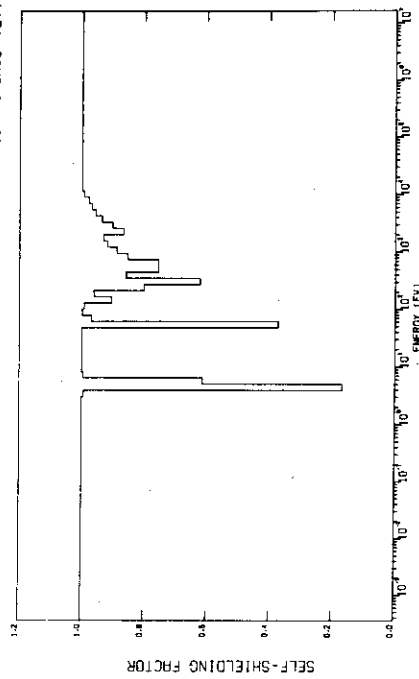
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

ELAS

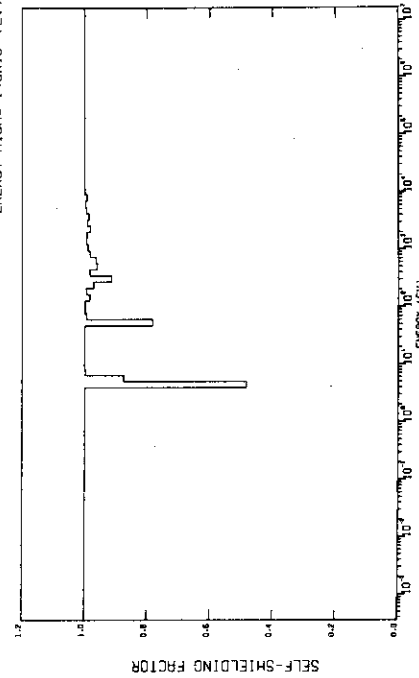
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

ELAS

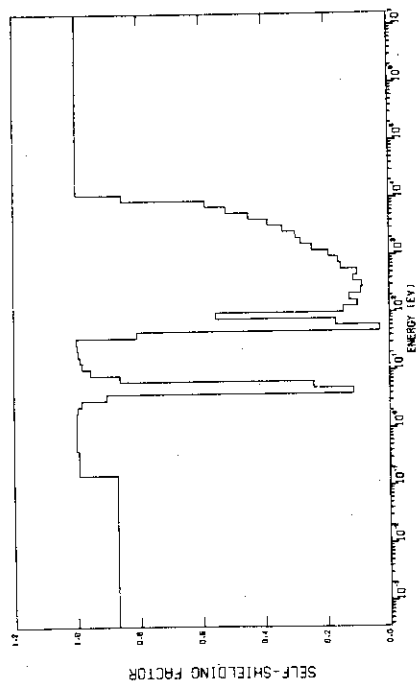
TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

CAPTURE

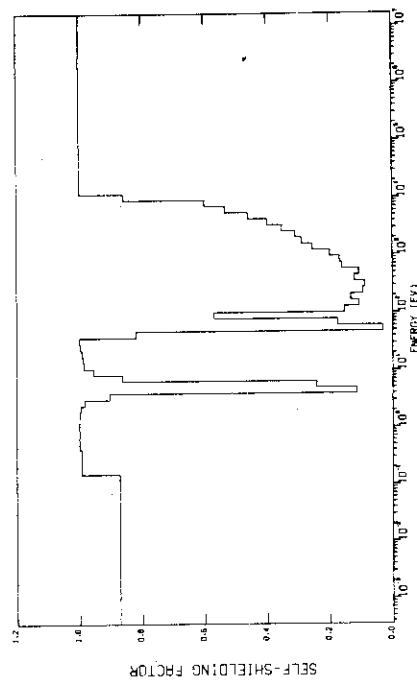
TEMPERATURE = 300 K  
SIG0 = 0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

CAPTURE

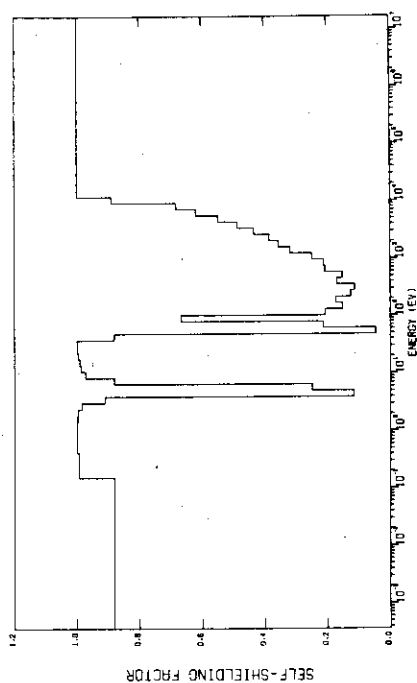
TEMPERATURE = 300 K  
SIG0 = 1  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

CAPTURE

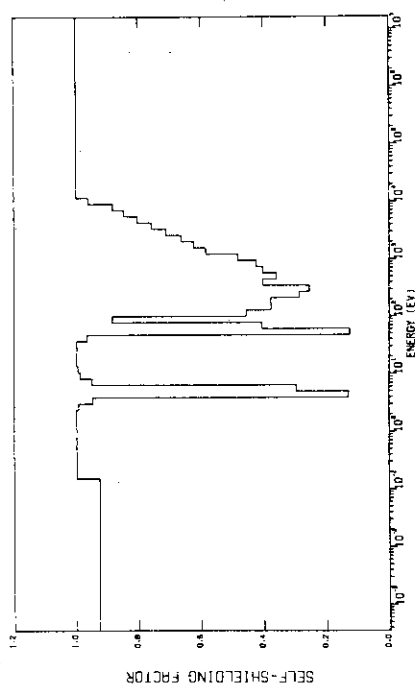
TEMPERATURE = 300 K  
SIG0 = 10  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

CAPTURE

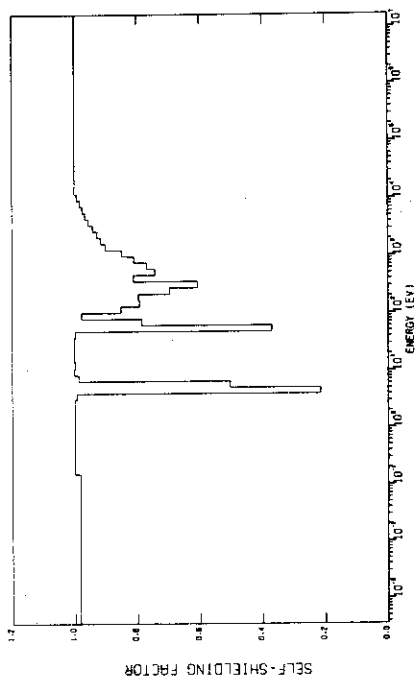
TEMPERATURE = 300 K  
SIG0 = 100  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

CAPTURE

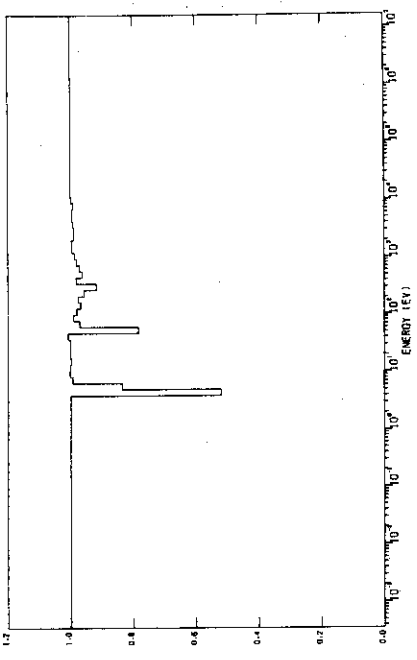
TEMPERATURE = 300 K  
SIG0 = 1000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 AU FROM ENDF/B-IV ( 300K )

CAPTURE

TEMPERATURE = 300 K  
SIG0 = 10000  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1283 RU FROM ENDF/B-IV ( 300K )

1283 RU FROM ENDF/B-IV ( 300K )

1283 RU FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

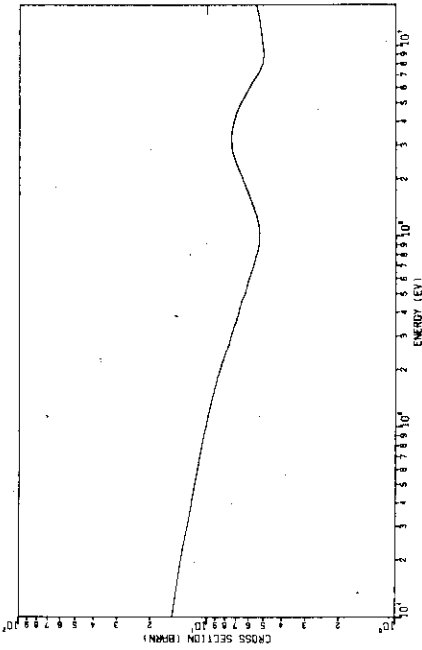
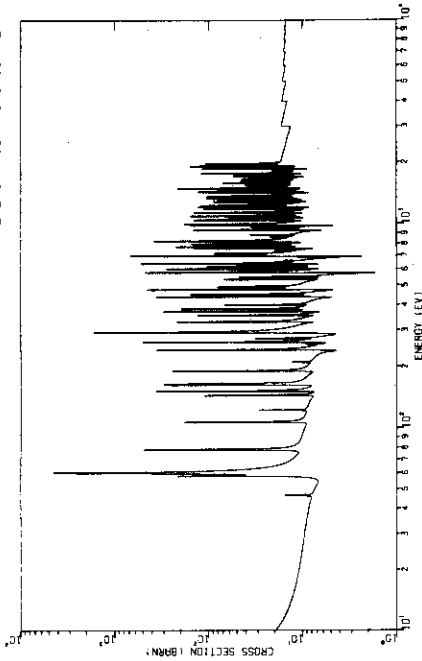
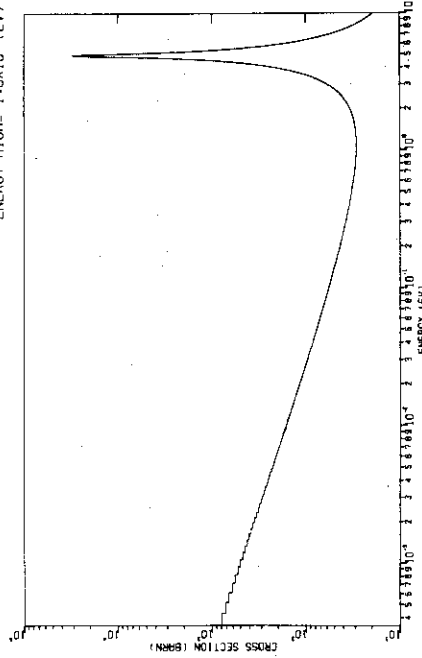
REACTION TYPE = 1

REACTION TYPE = 1

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1283 RU FROM ENDF/B-IV ( 300K )

1283 RU FROM ENDF/B-IV ( 300K )

1283 RU FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

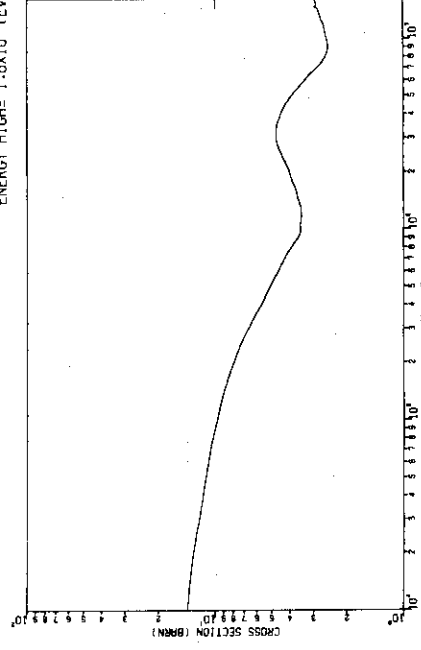
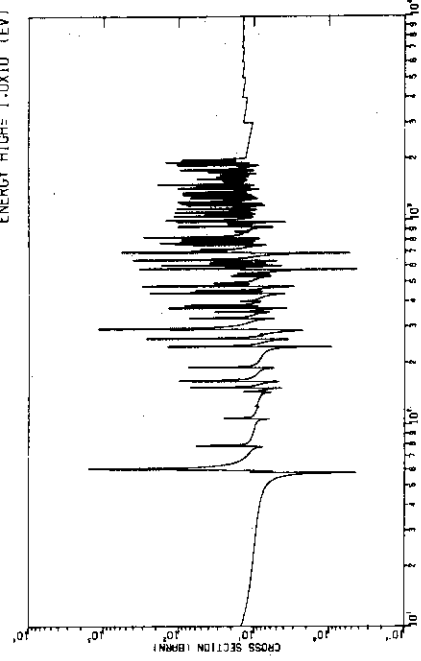
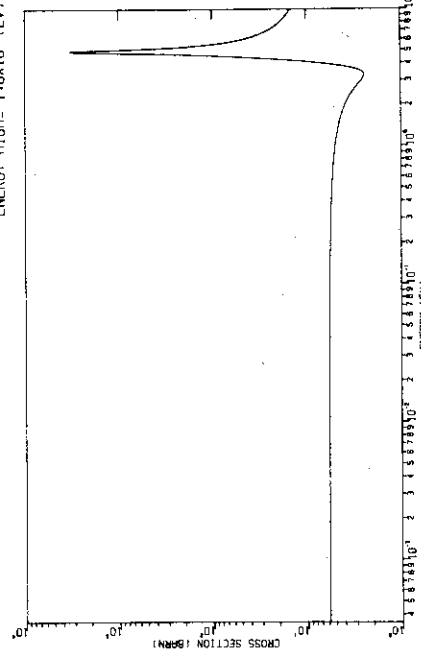
REACTION TYPE = 2

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1283 AU FROM ENDF/B-IV ( 300K )

1283 AU FROM ENDF/B-IV ( 300K )

1283 AU FROM ENDF/B-IV ( 300K )

REACTION TYPE = 4

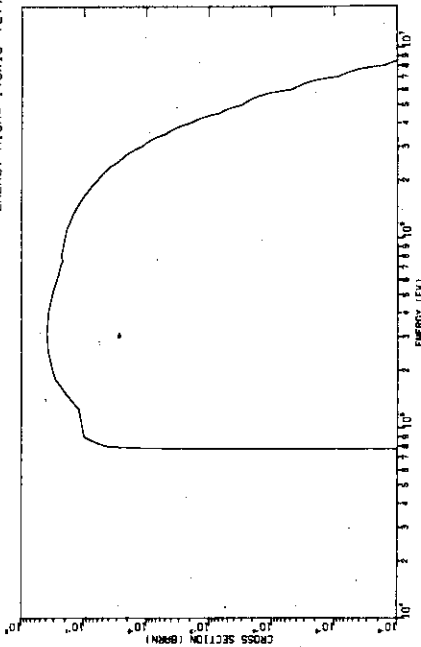
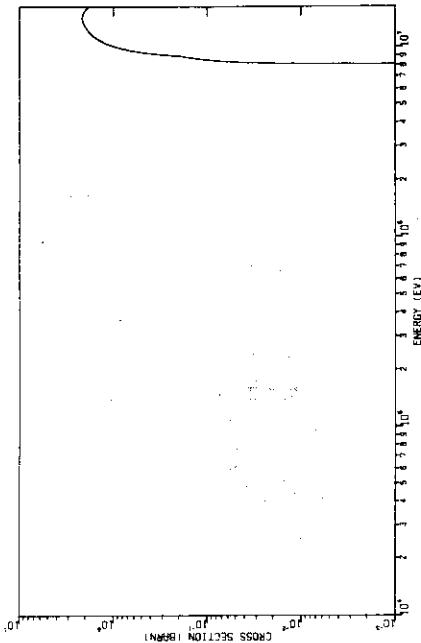
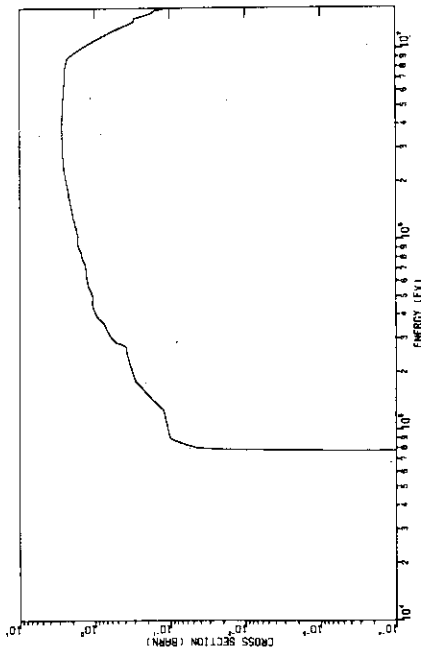
REACTION TYPE = 16

REACTION TYPE = 51

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1283 AU FROM ENDF/B-IV ( 300K )

1283 AU FROM ENDF/B-IV ( 300K )

1283 AU FROM ENDF/B-IV ( 300K )

REACTION TYPE = 91

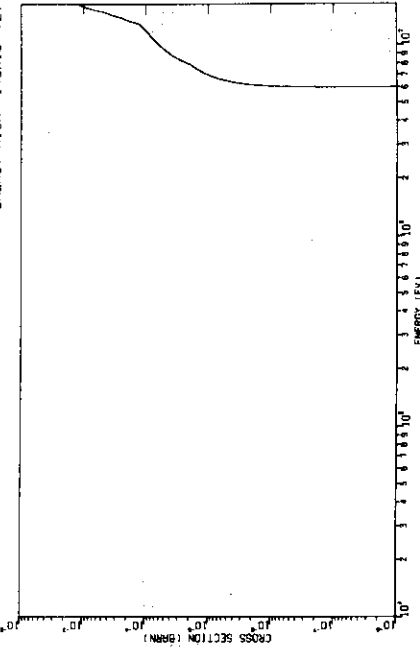
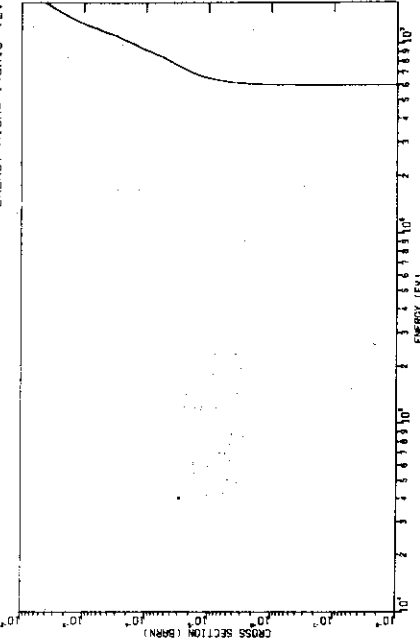
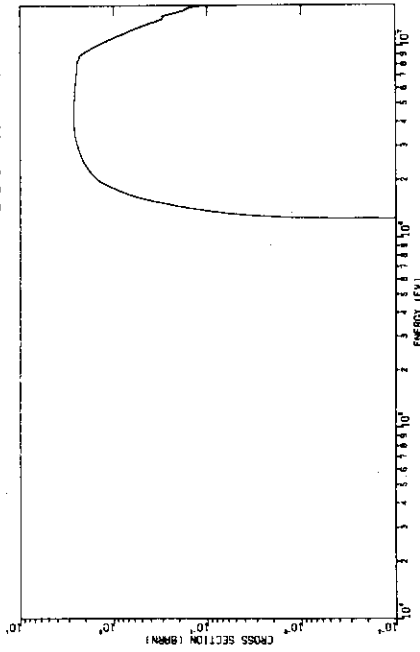
REACTION TYPE = 103

REACTION TYPE = 107

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1283 AU FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

REACTION TYPE = 102

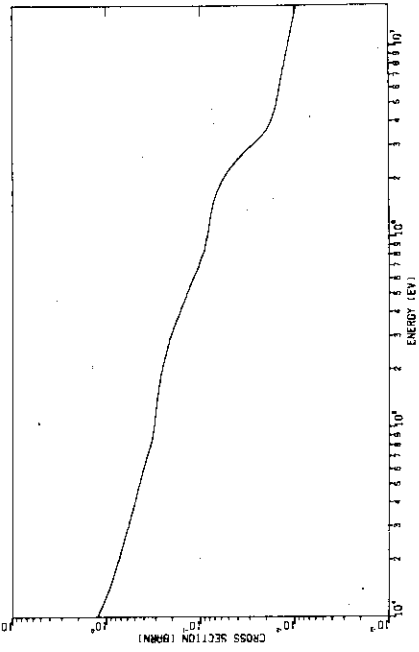
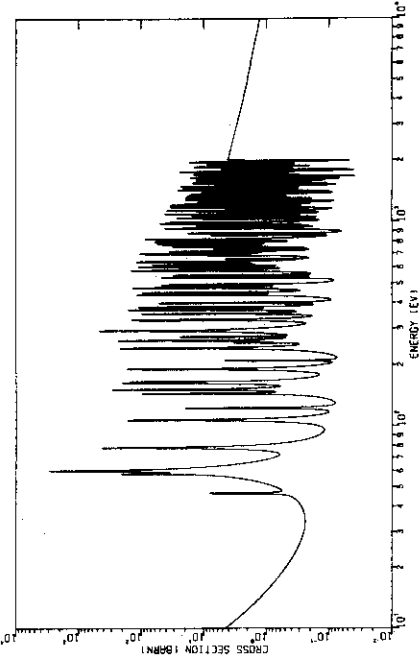
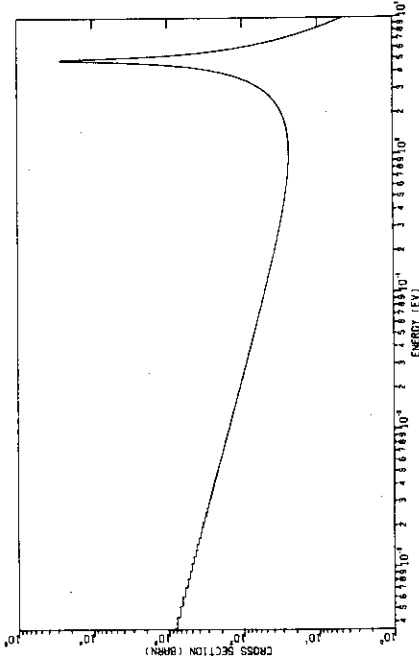
1283 AU FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0 = 1.00000000.0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 1.00000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>8</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 1.00000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>8</sup> (EV)



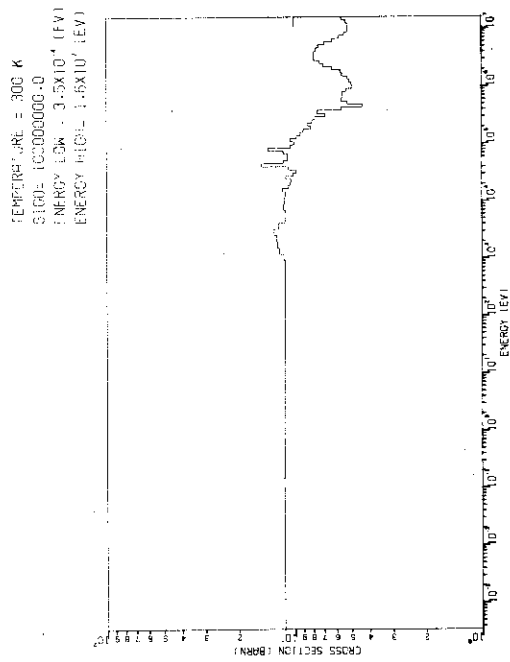


**82 Pb**  
**1288**

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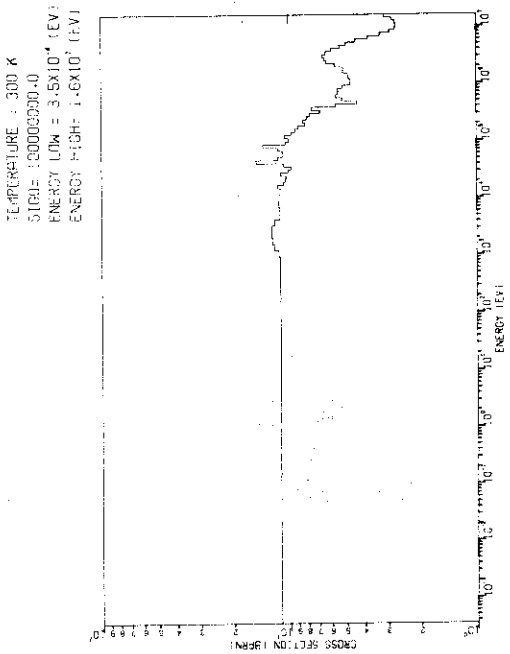
1288 Pb FROM ENDF/B-IV ( 300K )

THIN



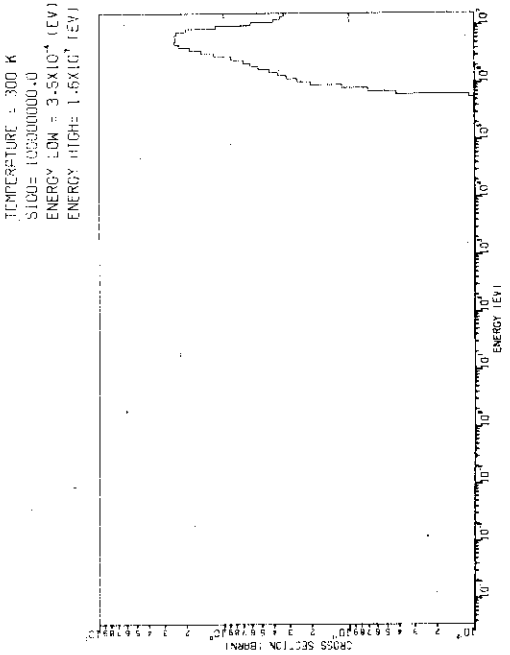
1288 Pb FROM ENDF/B-IV ( 300K )

ELPS



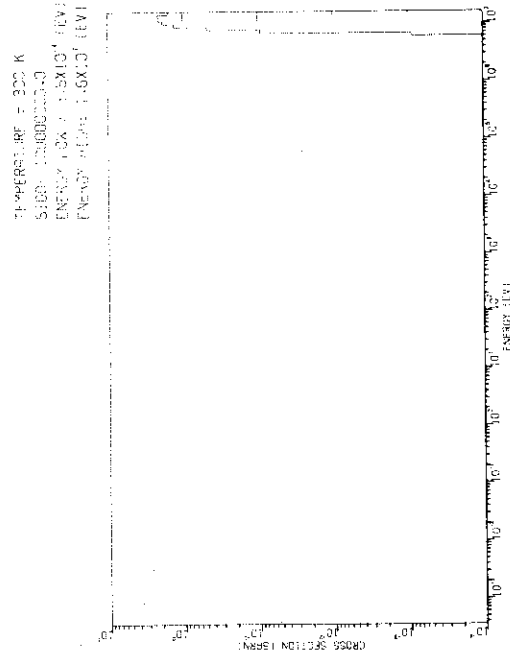
1288 Pb FROM ENDF/B-IV ( 300K )

INELAS



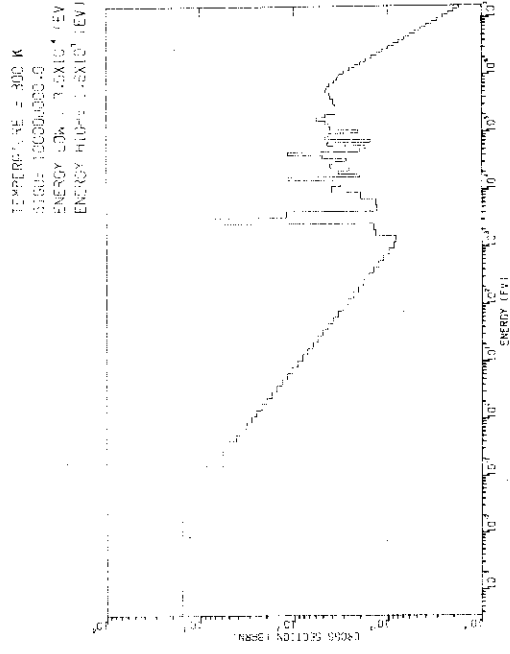
1288 Pb FROM ENDF/B-IV ( 300K )

(N,2N)



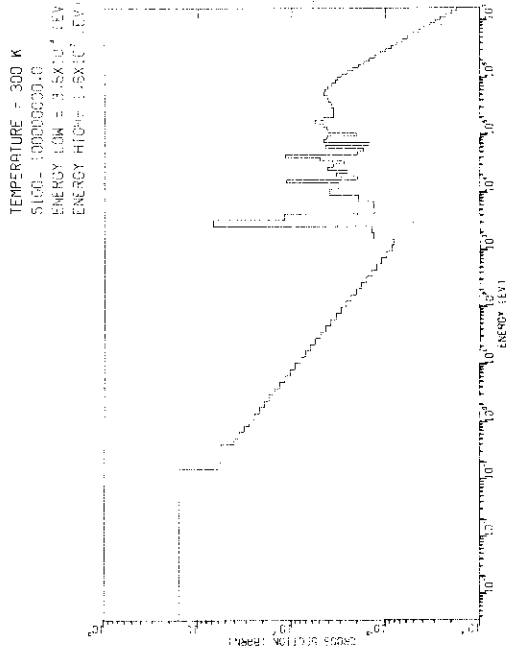
1288 Pb FROM ENDF/B-IV ( 300K )

(N,L)



1288 Pb FROM ENDF/B-IV ( 300K )

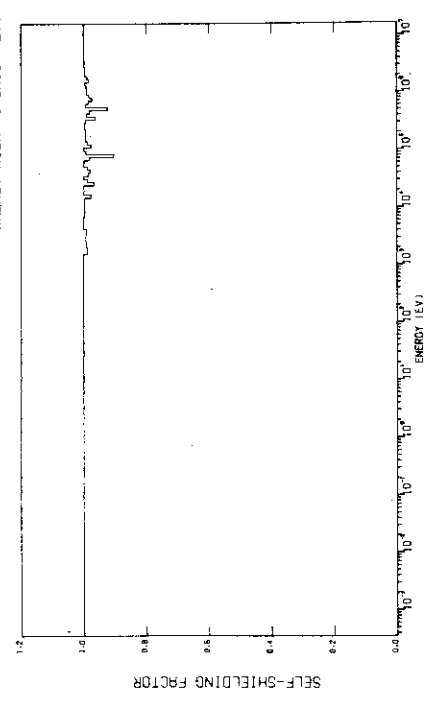
CAPTURE



1288 PB FROM ENDF/B-IV ( 300K )

TOTAL

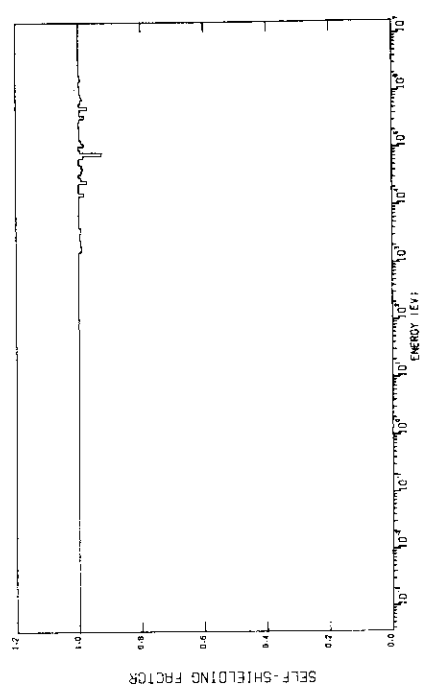
TEMPERATURE = 300 K  
SIG0= 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>-7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

TOTAL

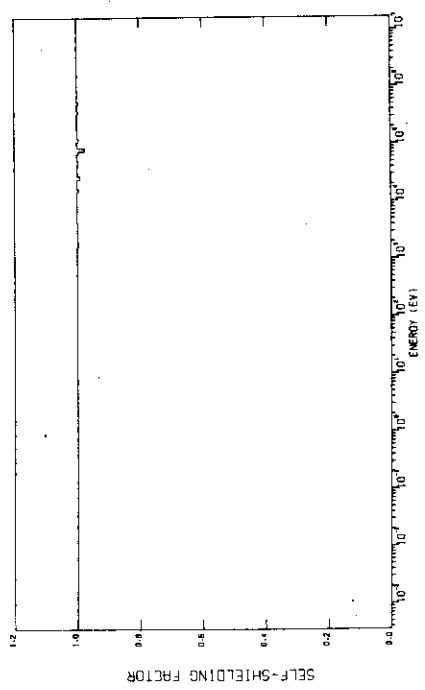
TEMPERATURE = 300 K  
SIG0= 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>-7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

TOTAL

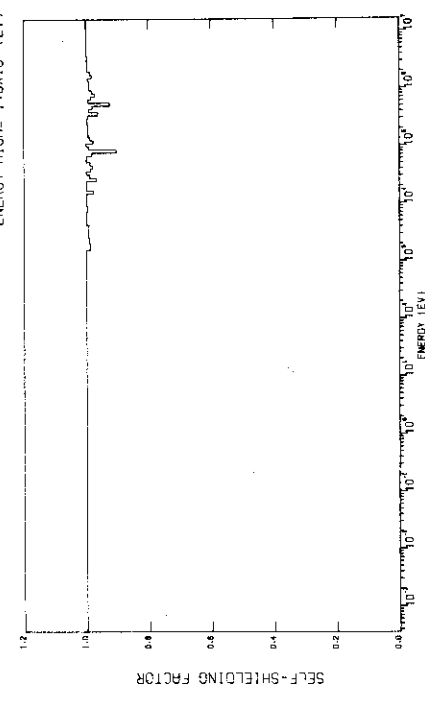
TEMPERATURE = 300 K  
SIG0= 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>-7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

ELAS

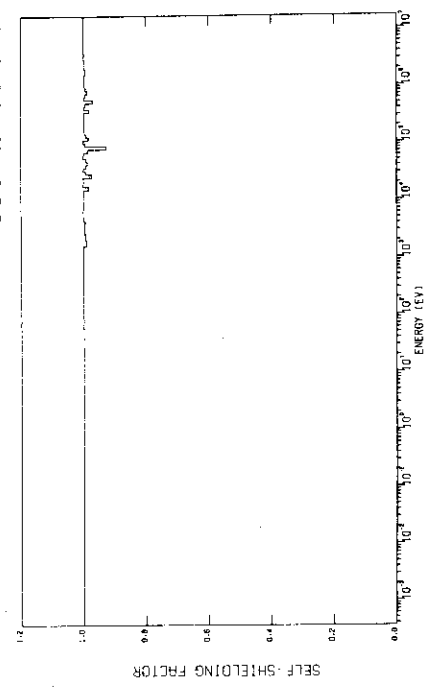
TEMPERATURE = 300 K  
SIG0= 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>-7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

ELAS

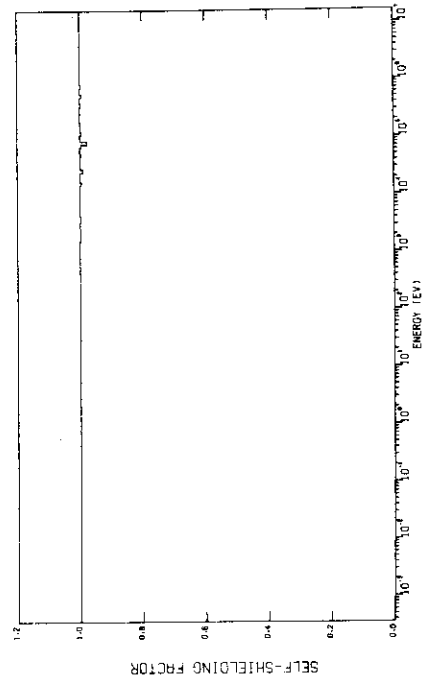
TEMPERATURE = 300 K  
SIG0= 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>-7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0= 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>-7</sup> (EV)



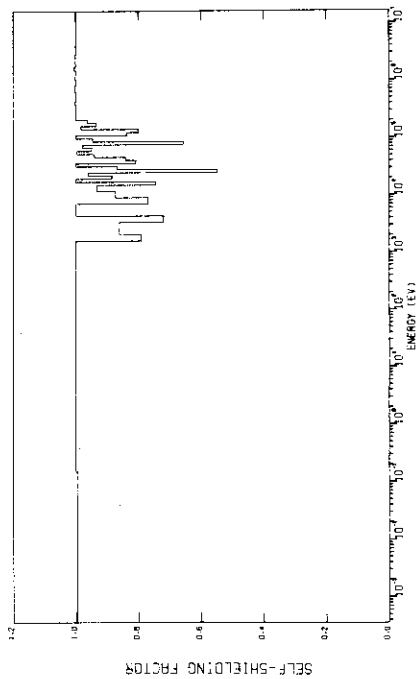
# 82 Pb 1288

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1288 PB FROM ENDF/B-IV ( 300K )

CAPTURE

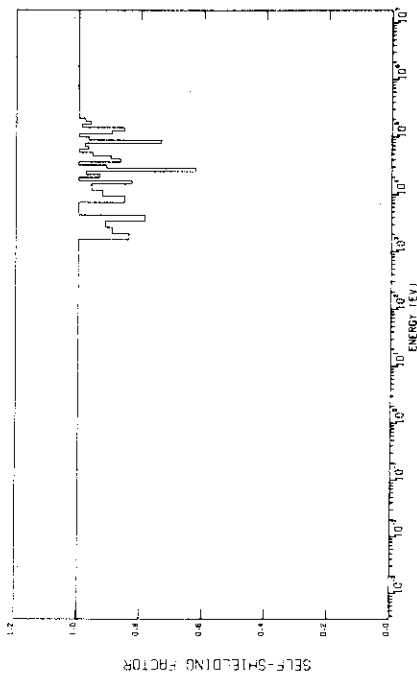
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

CAPTURE

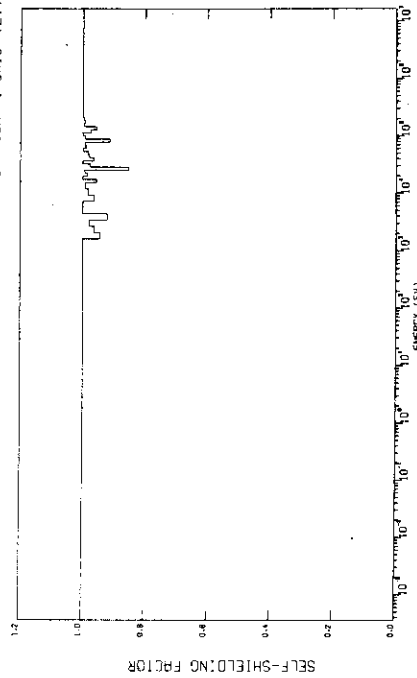
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

CAPTURE

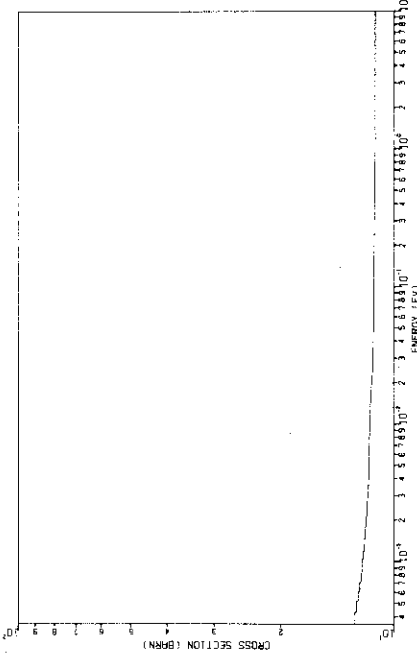
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = I

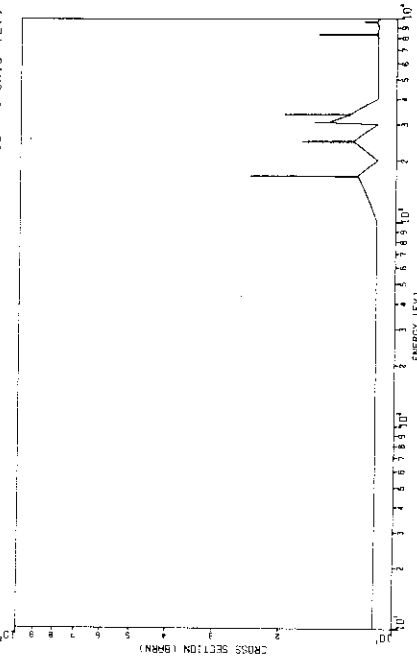
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = I

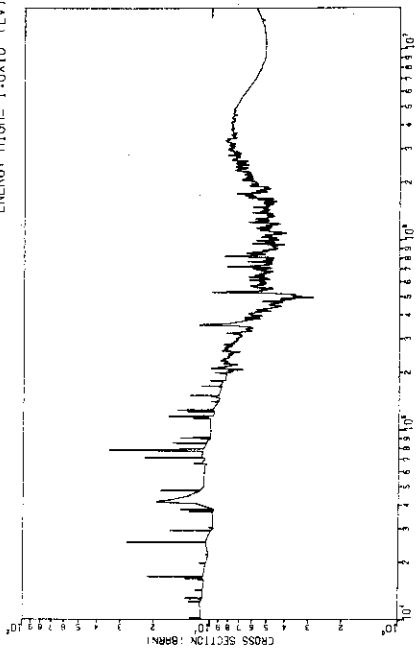
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = I

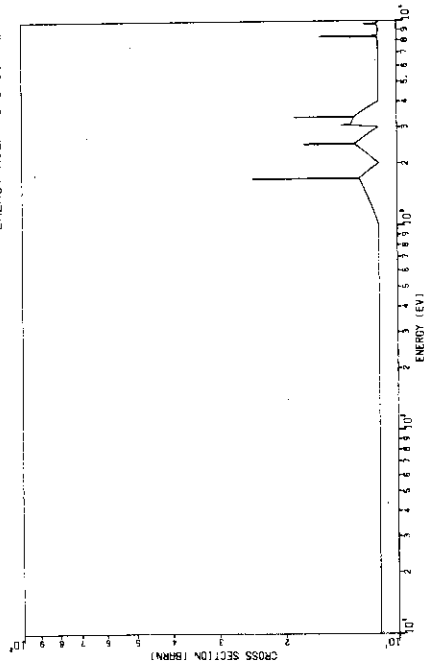
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

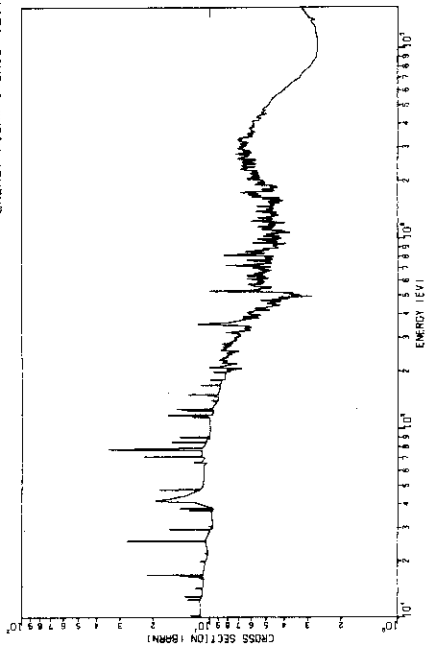
TEMPERATURE = 300 K  
SIG0= 1.0000000E+00  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

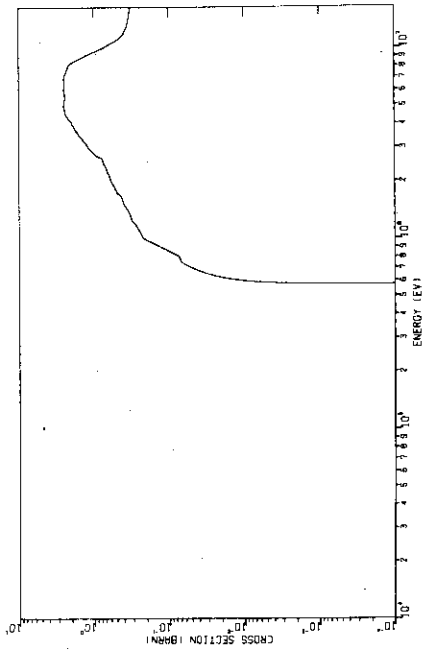
TEMPERATURE = 300 K  
SIG0= 1.0000000E+00  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 4

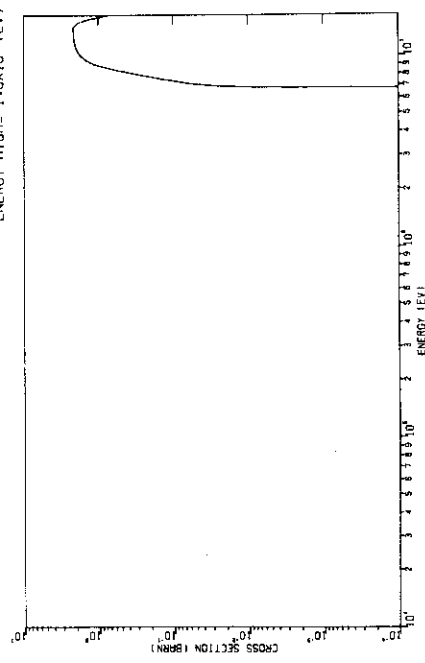
TEMPERATURE = 300 K  
SIG0= 1.0000000E+00  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 16

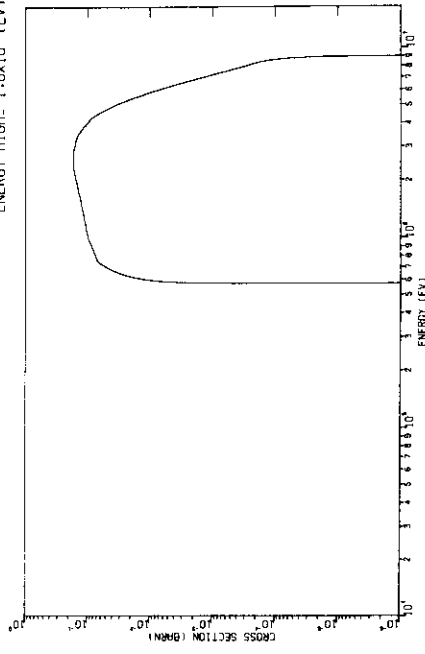
TEMPERATURE = 300 K  
SIG0= 1.0000000E+00  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 51

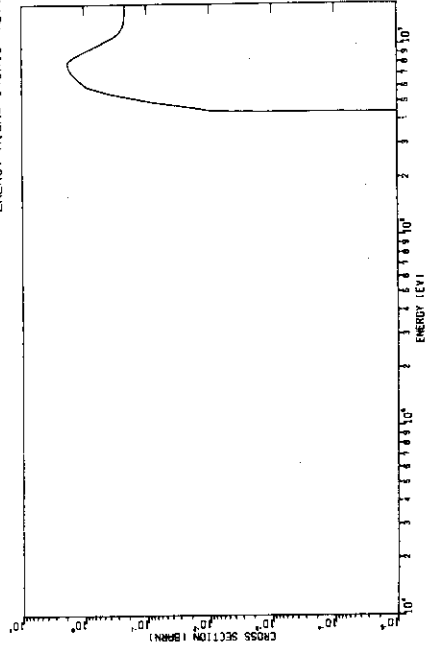
TEMPERATURE = 300 K  
SIG0= 1.0000000E+00  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 91

TEMPERATURE = 300 K  
SIG0= 1.0000000E+00  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



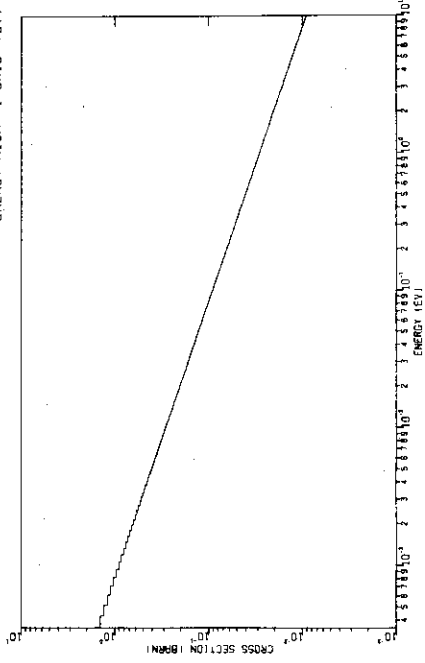
82 **Pb**  
1288

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1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

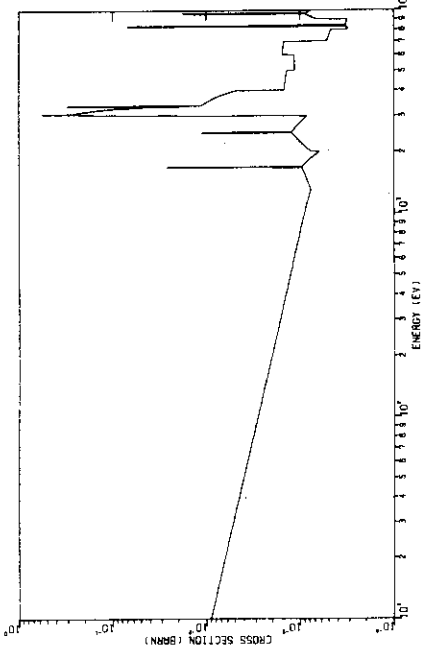
TEMPERATURE = 300 K  
SI00= 10000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

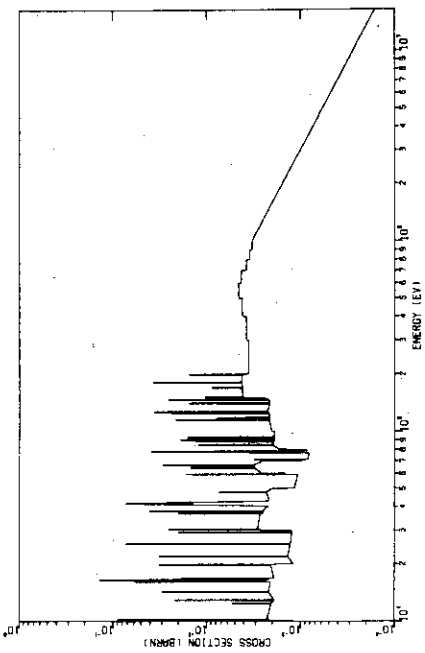
TEMPERATURE = 300 K  
SI00= 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)



1288 PB FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

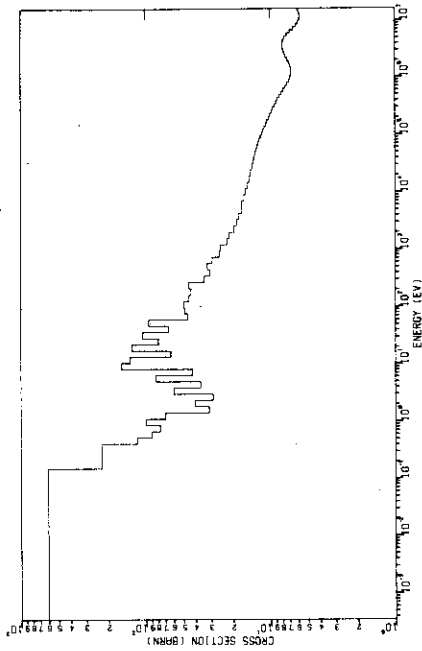
TEMPERATURE = 300 K  
SI00= 10000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>6</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

TOTAL

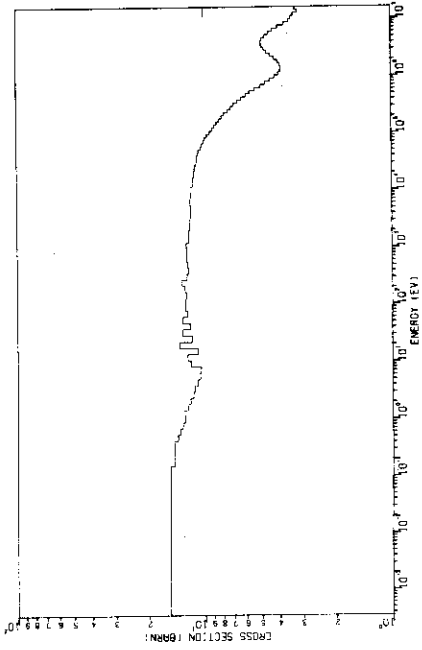
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1251 U-235 FROM ENDF/B-IV ( 300K )

ELIAS

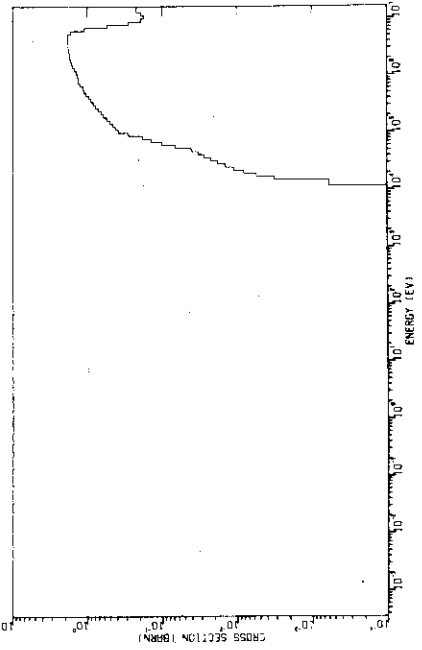
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

INELAS

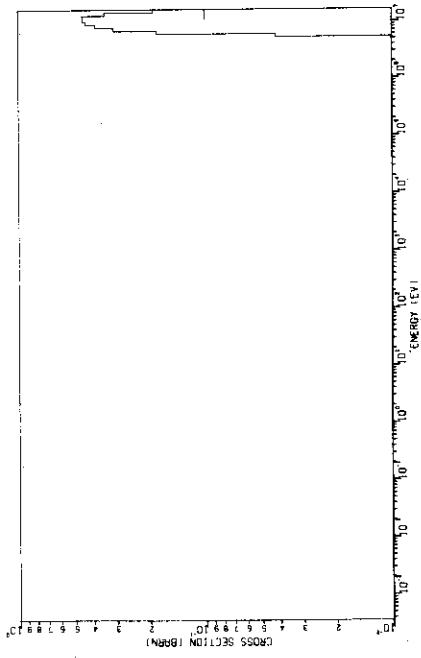
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

(N,2N)

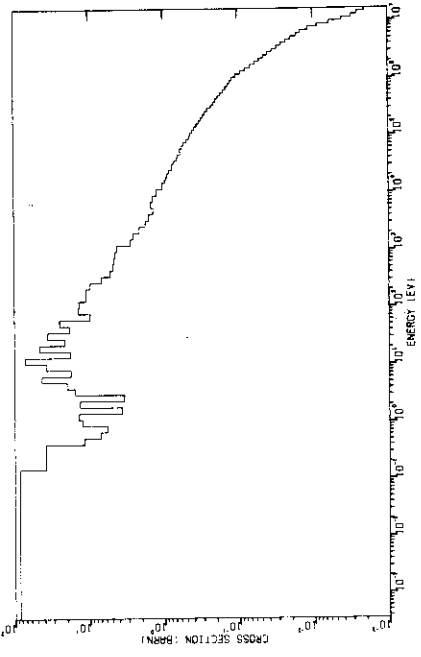
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

(N,G)

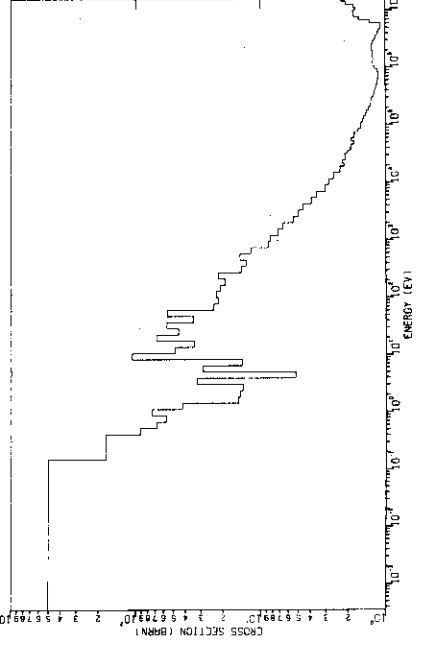
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

FISSON

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

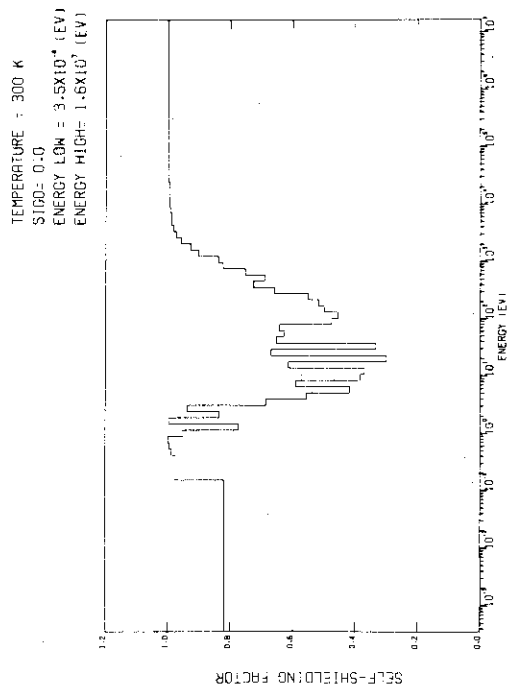


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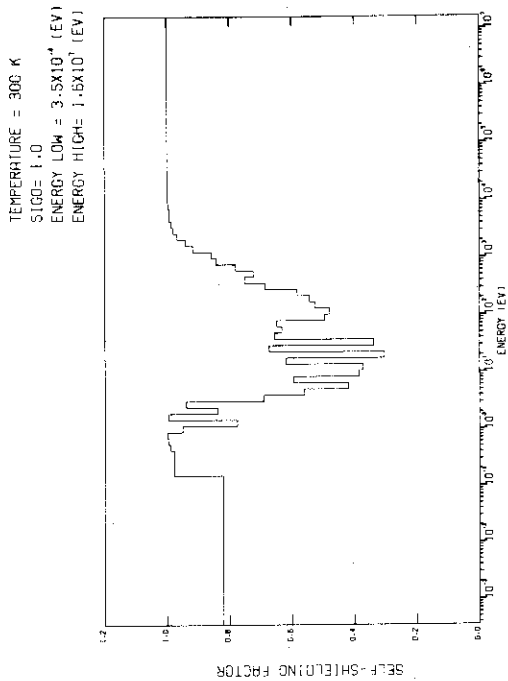
1261 U-235 FROM ENDF/B-IV ( 300K )

TOTAL



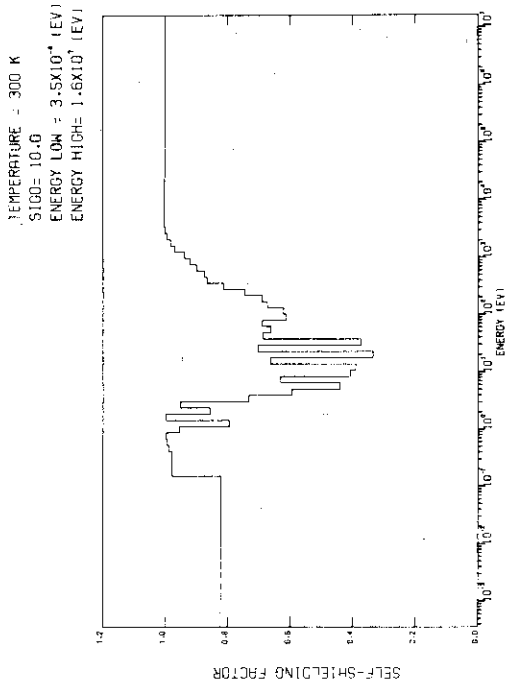
1261 U-235 FROM ENDF/B-IV ( 300K )

TOTAL



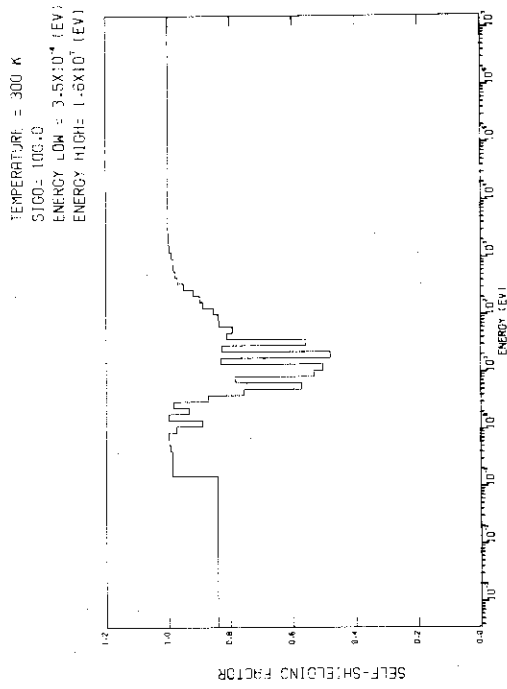
1261 U-235 FROM ENDF/B-IV ( 300K )

TOTAL



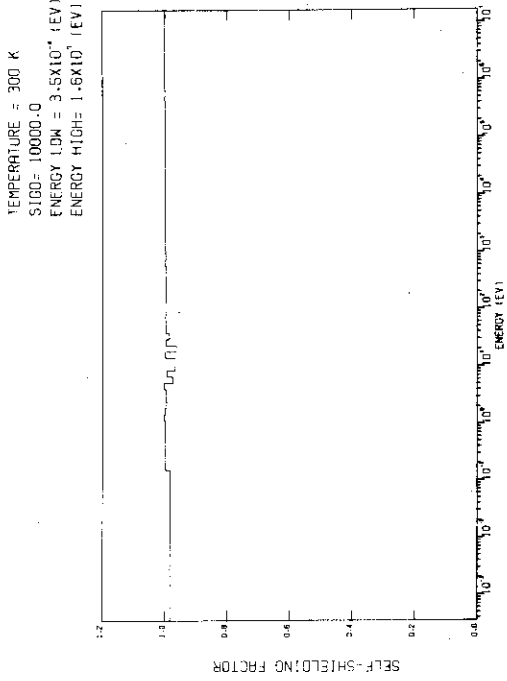
1261 U-235 FROM ENDF/B-IV ( 300K )

TOTAL



1261 U-235 FROM ENDF/B-IV ( 300K )

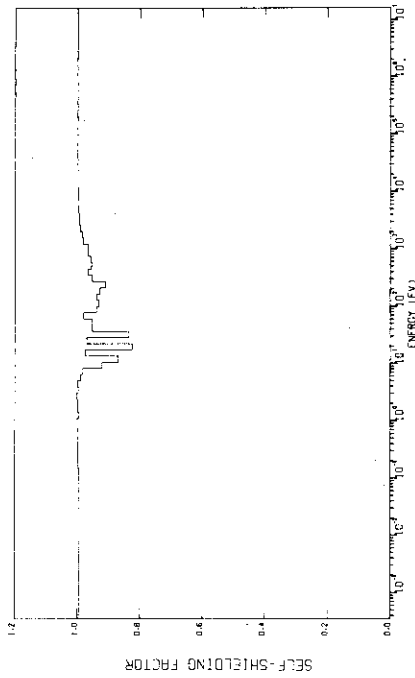
TOTAL



1261 U-235 FROM ENDF/B-IV ( 300K )

ELAS

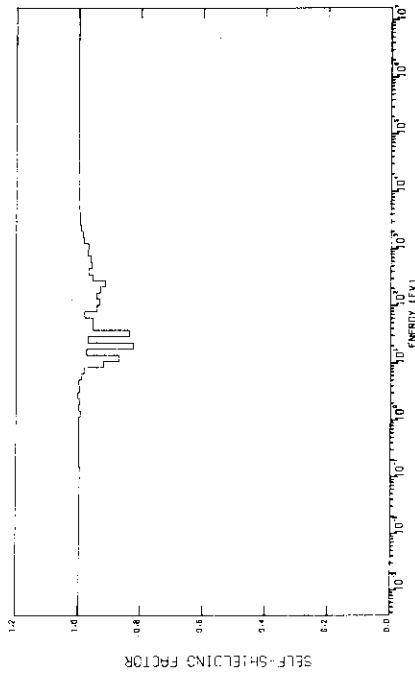
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1261 U 235 FROM ENDF/B-IV ( 300K )

ELAS

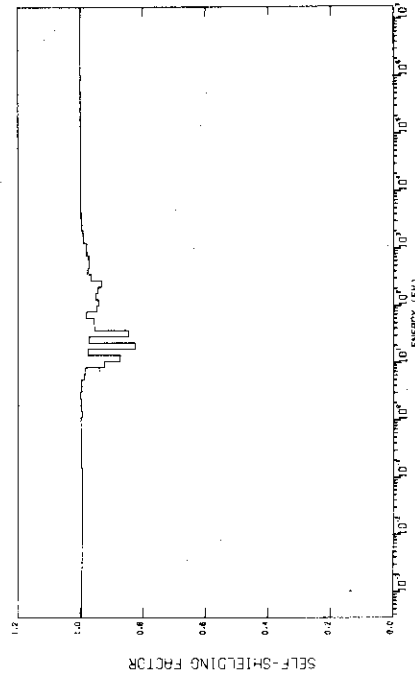
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

ELAS

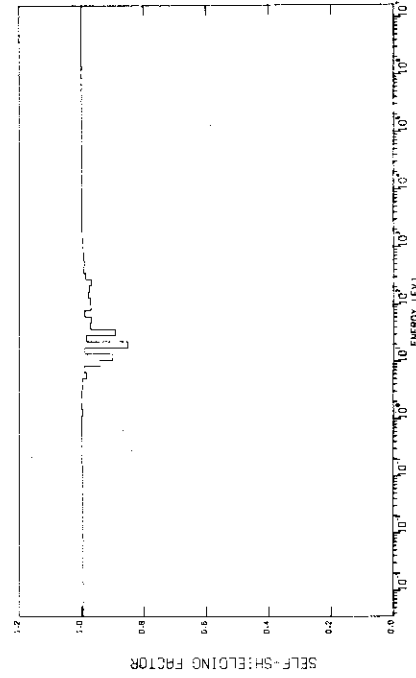
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

ELAS

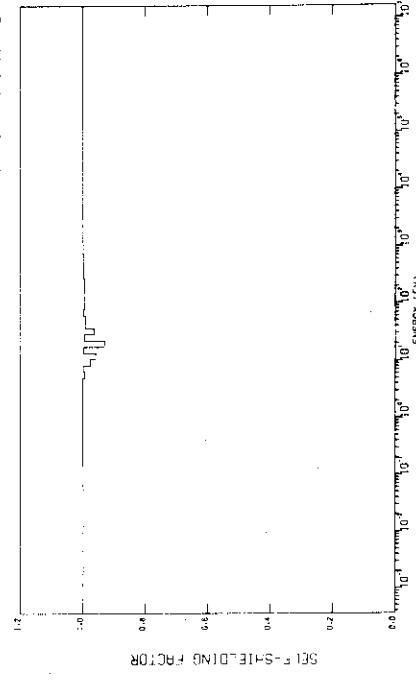
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

ELAS

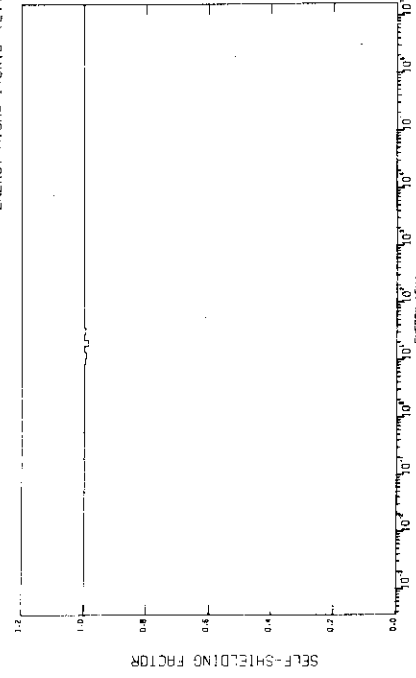
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



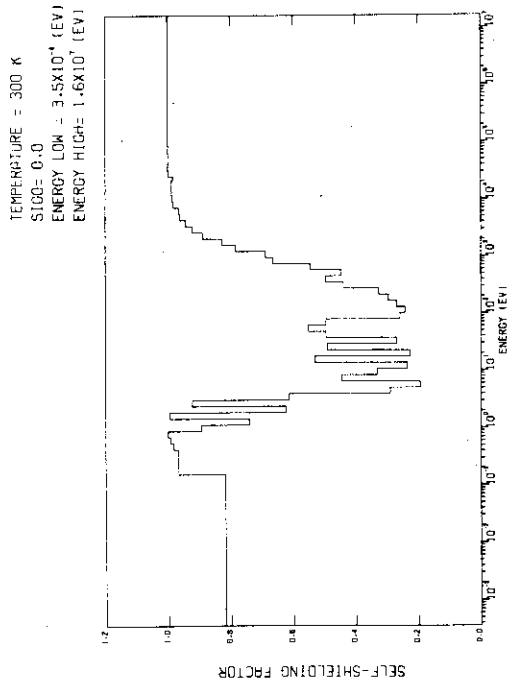


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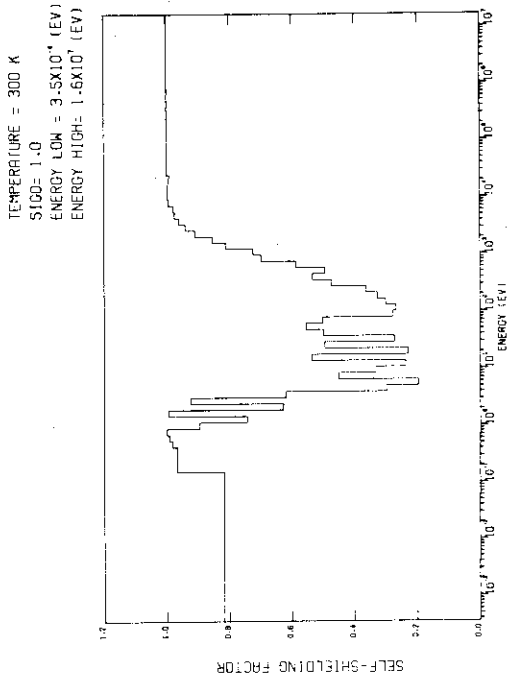
1261 U-235 FROM ENDF/B-IV ( 300K )

CAPTURE



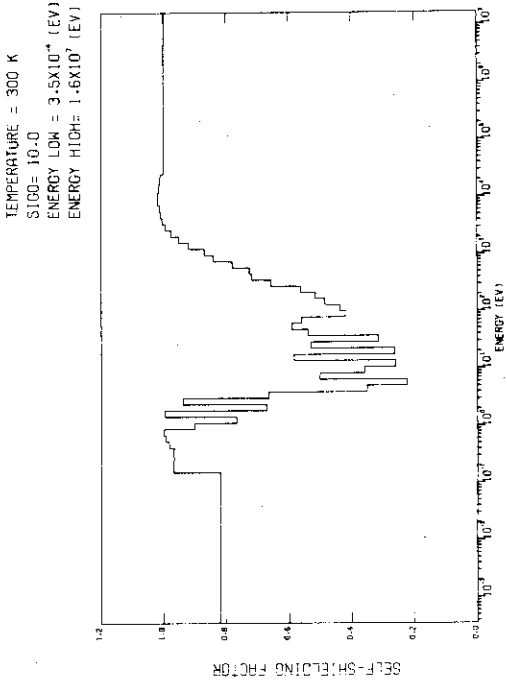
1261 U-235 FROM ENDF/B-IV ( 300K )

CAPTURE



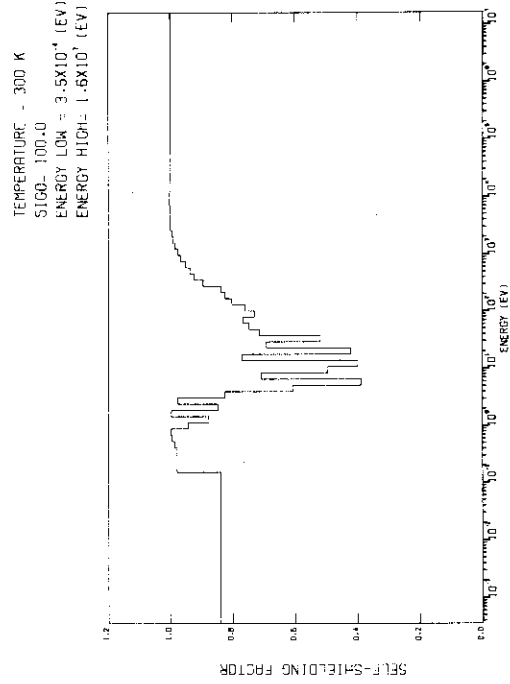
1261 U-235 FROM ENDF/B-IV ( 300K )

CAPTURE



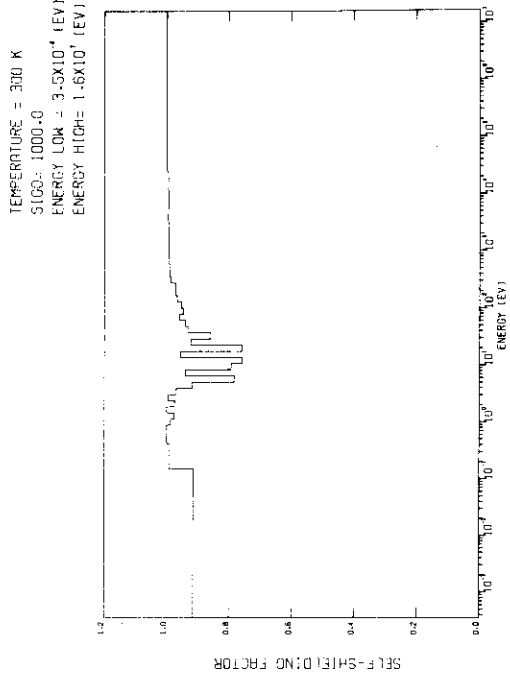
1261 U-235 FROM ENDF/B-IV ( 300K )

CAPTURE



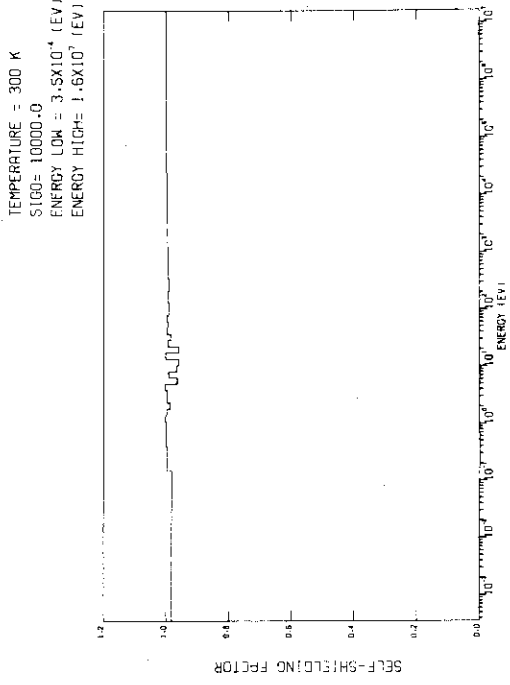
1261 U-235 FROM ENDF/B-IV ( 300K )

CAPTURE



1261 U-235 FROM ENDF/B-IV ( 300K )

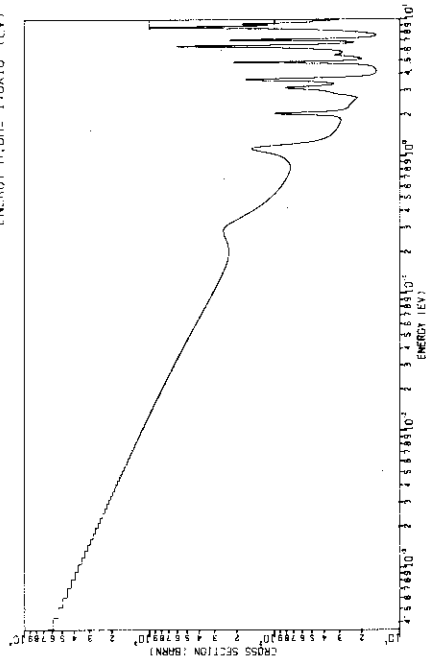
CAPTURE



1261 U-235 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

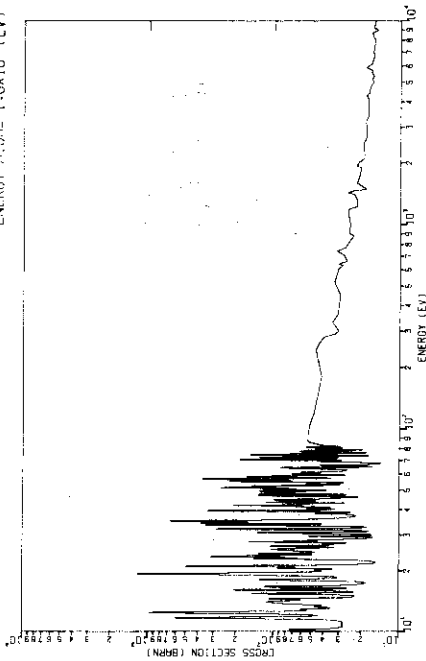
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

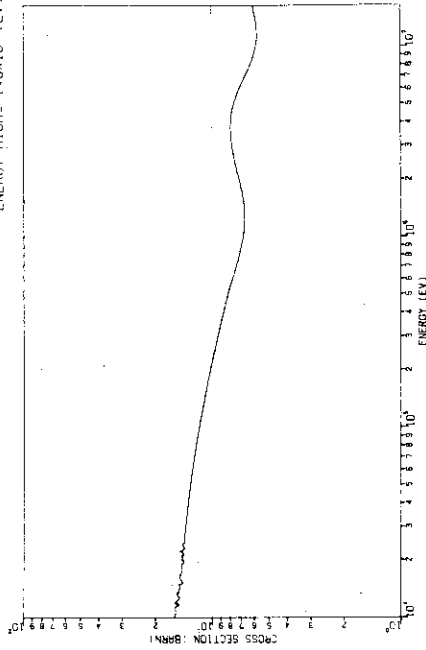
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

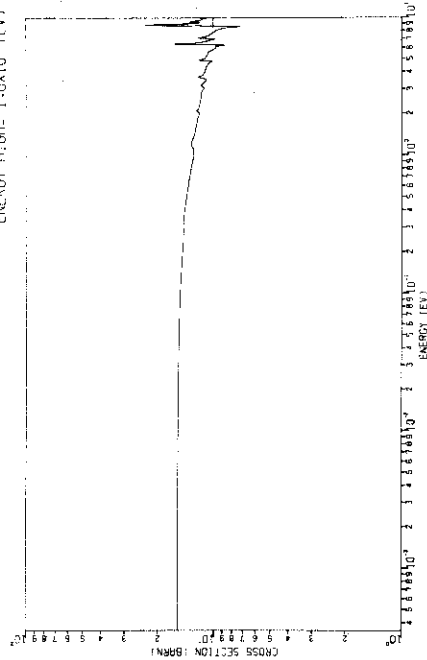
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

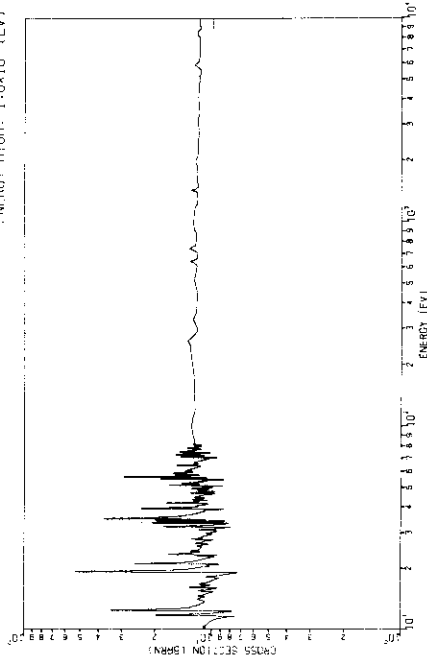
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

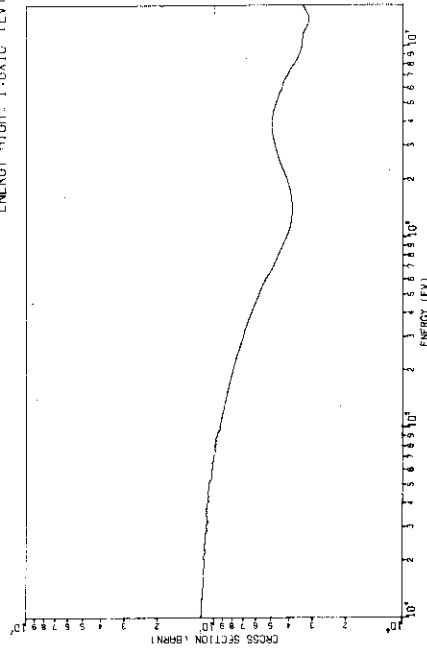
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



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1261 U-235 FROM ENDF/B-IV (300K)

REACTION TYPE = 18

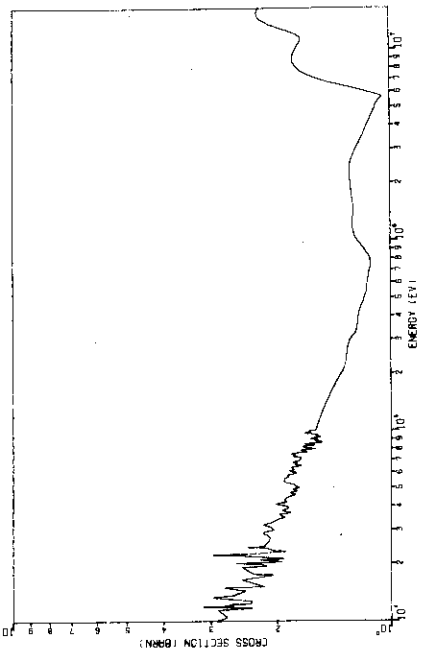
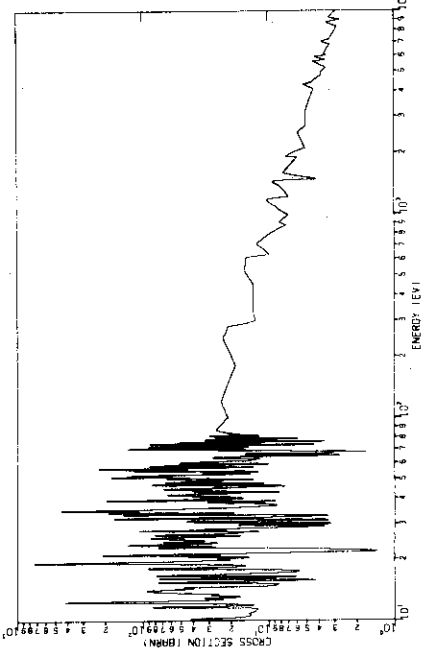
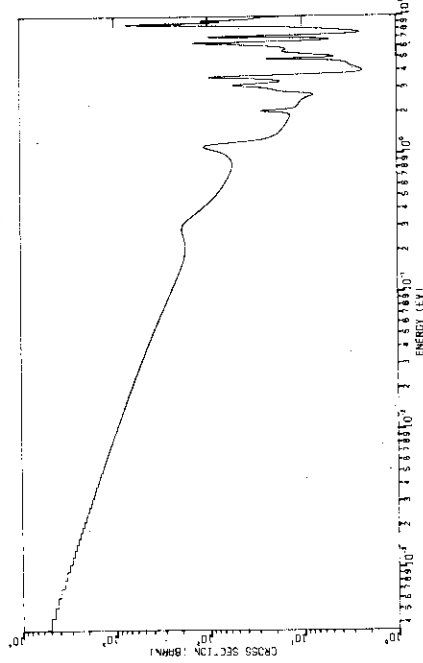
1261 U-235 FROM ENDF/B-IV (300K)

REACTION TYPE = 18

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1261 U-235 FROM ENDF/B-IV (300K)

REACTION TYPE = 16

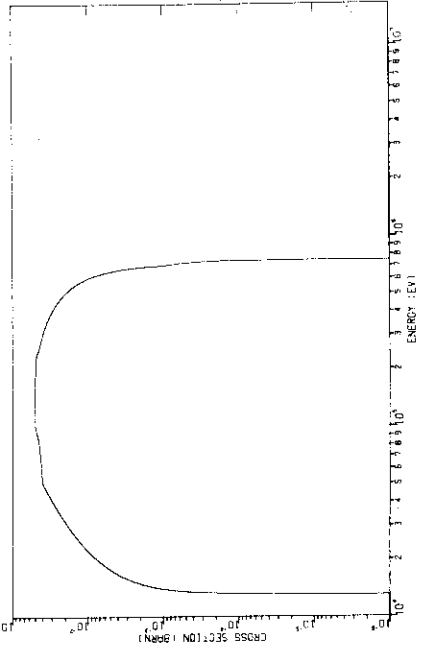
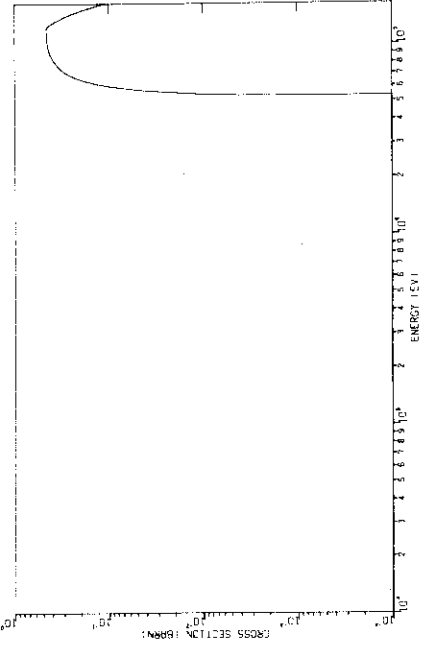
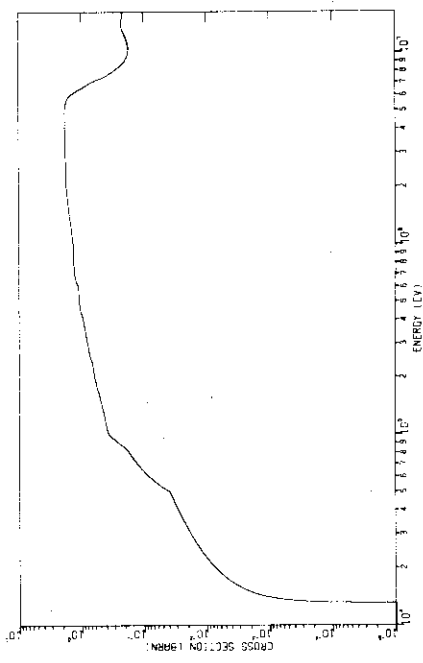
1261 U-235 FROM ENDF/B-IV (300K)

REACTION TYPE = 51

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)

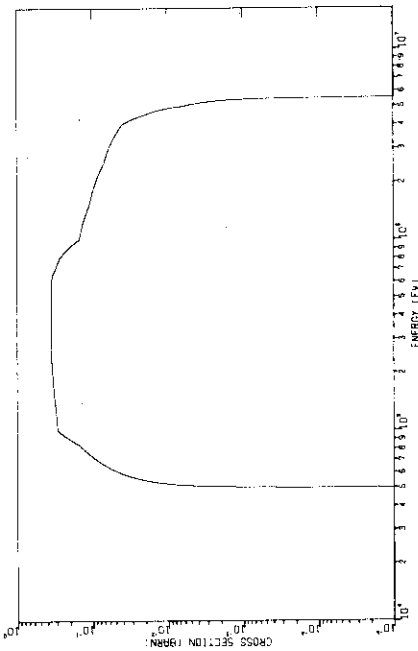
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



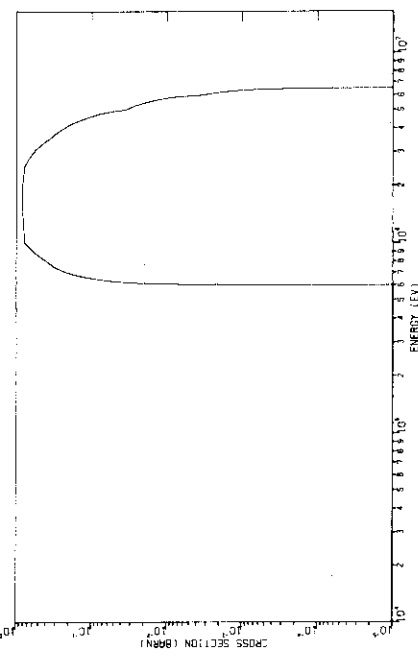
125; U-235 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 52

TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



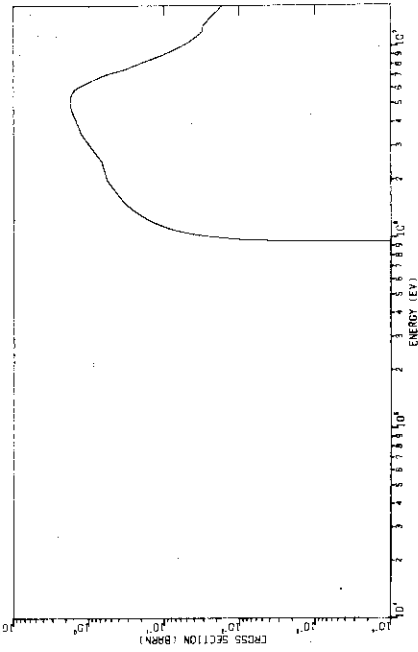
126; U-235 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 60

TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



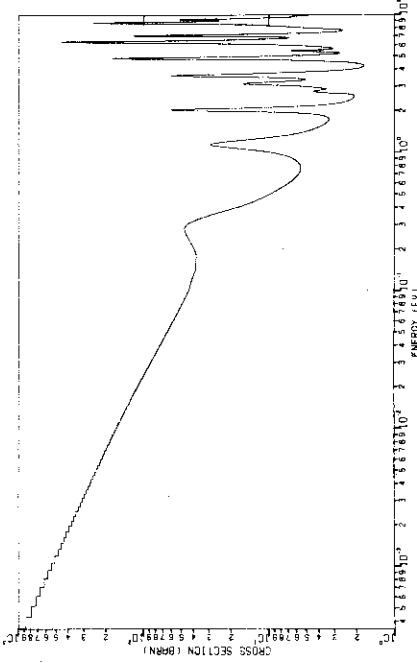
1261 U-235 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 91

TEMPERATURE = 300 K  
SIG0= 1.0330000E+0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



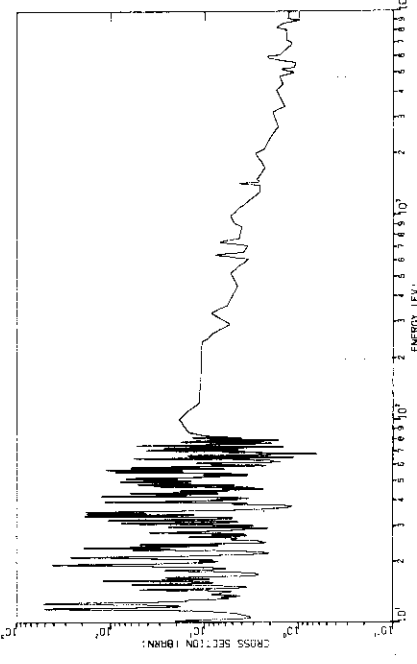
1261 U-235 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0= 1.0330000E+0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



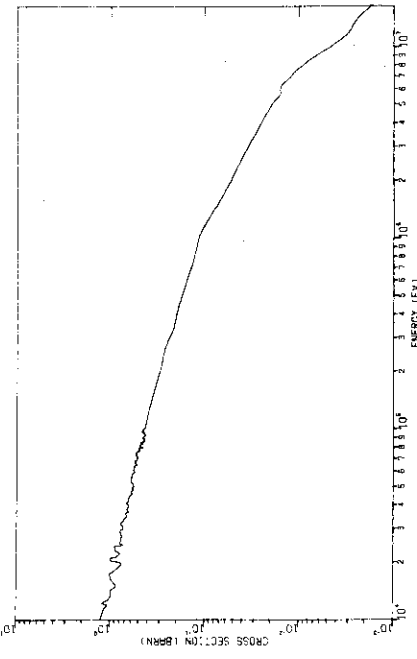
1261 U-235 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1261 U-235 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 102

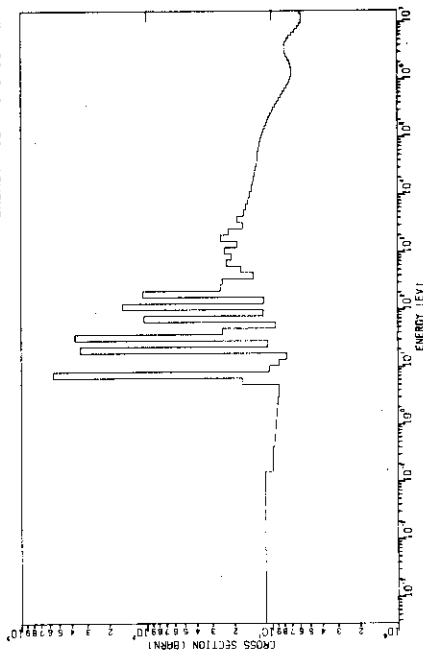
TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

TOTAL

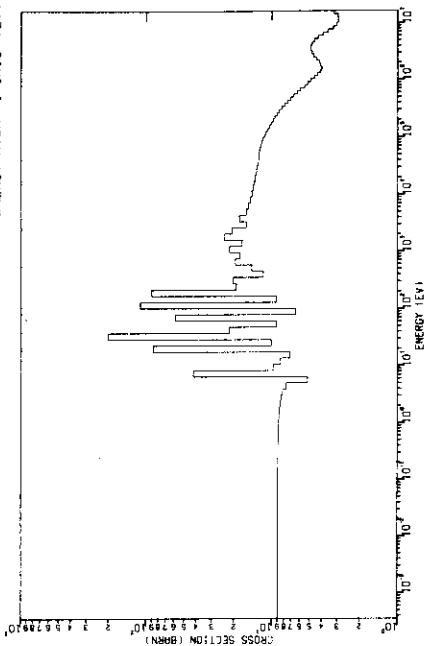
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

ELAS

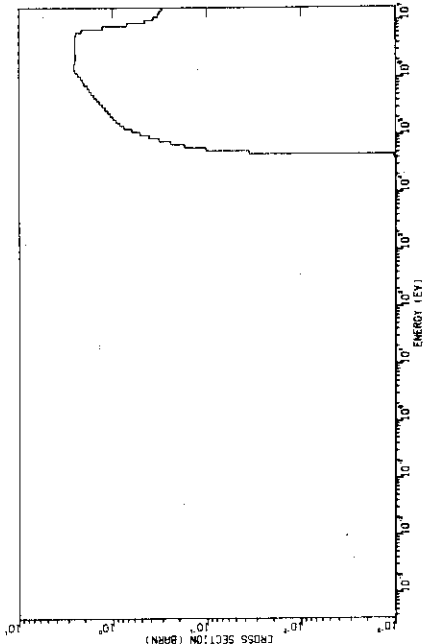
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

INELRS

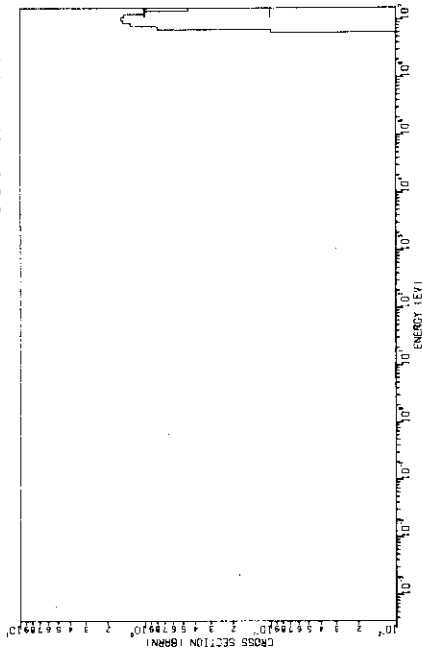
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

(N,2N)

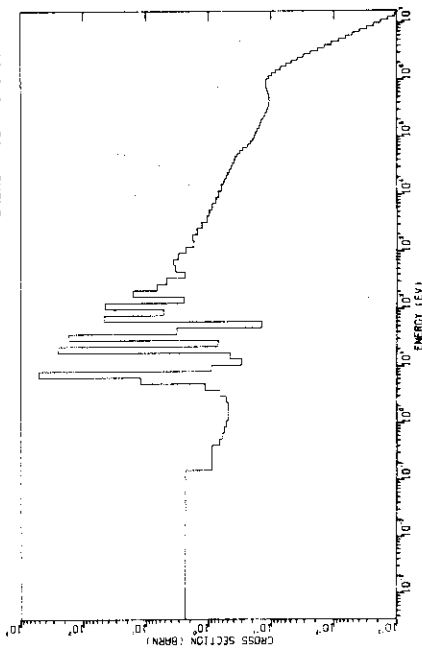
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

(N,G)

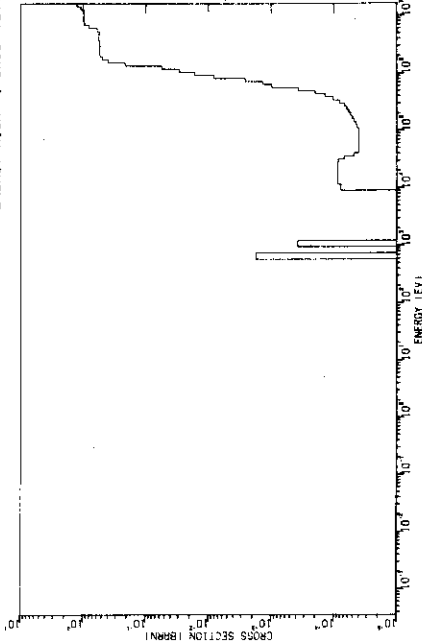
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

FISSION

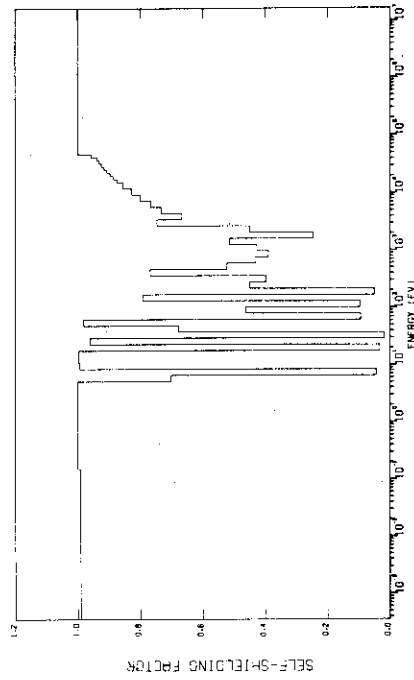
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

TOTAL

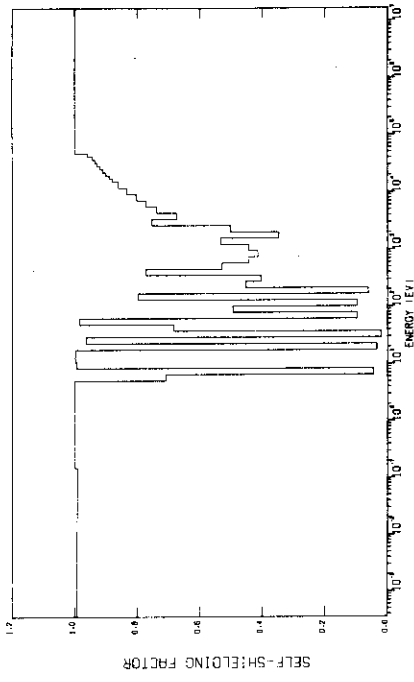
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

TOTAL

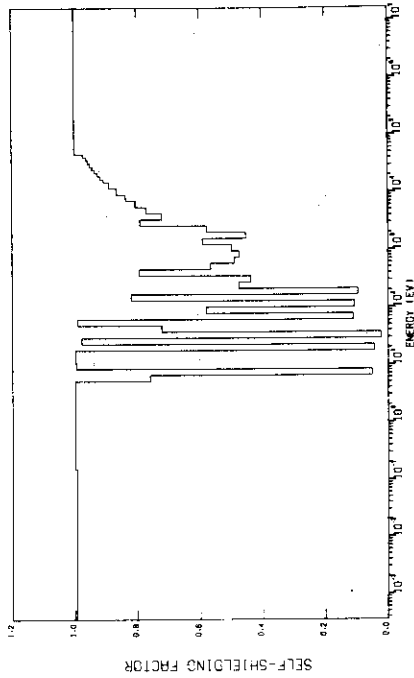
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

TOTAL

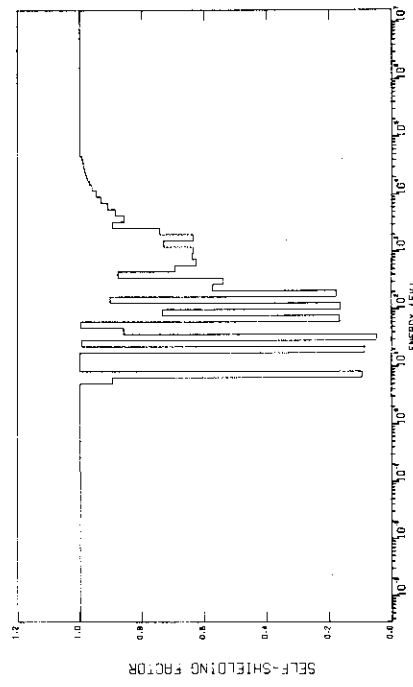
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

TOTAL

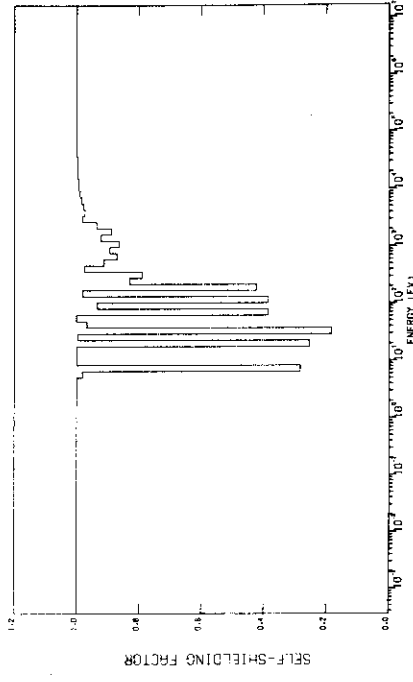
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

TOTAL

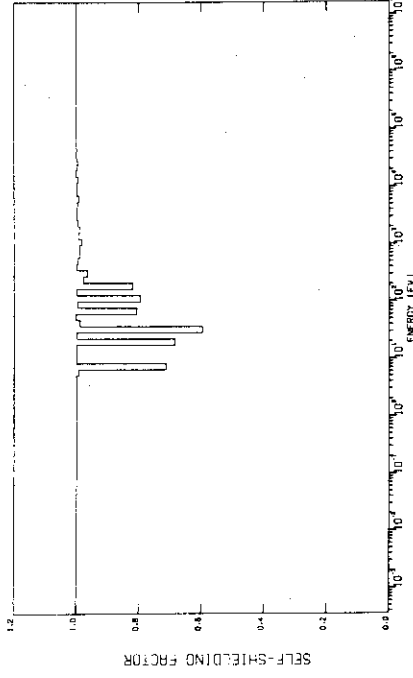
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

TOTAL

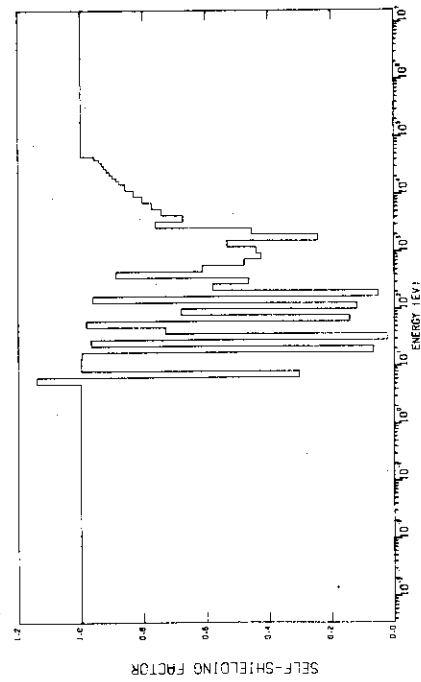
TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

ELAS

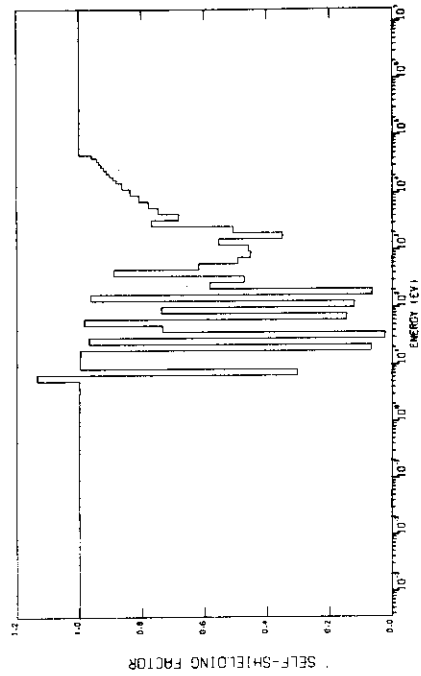
TEMPERATURE = 300 K  
SIG0= 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

ELAS

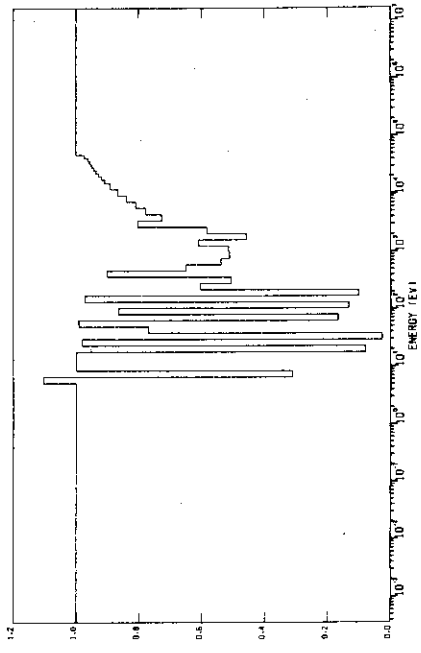
TEMPERATURE = 300 K  
SIG0= 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

ELAS

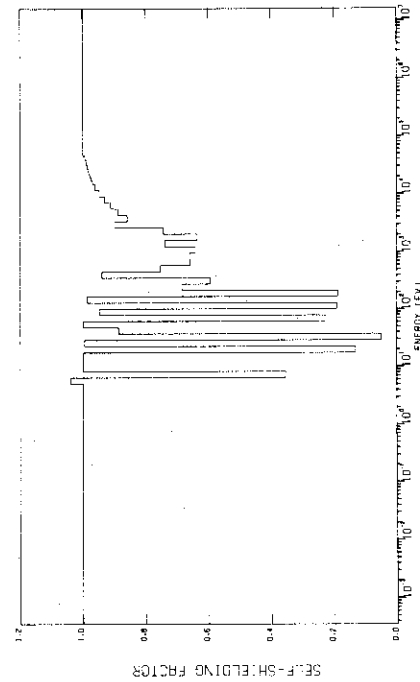
TEMPERATURE = 300 K  
SIG0= 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

ELAS

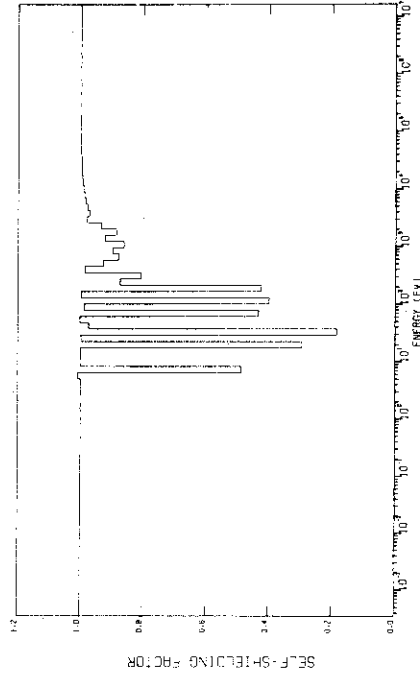
TEMPERATURE = 300 K  
SIG0= 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

ELAS

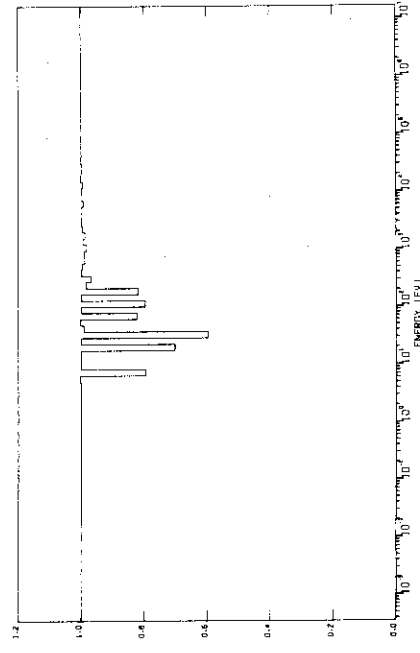
TEMPERATURE = 300 K  
SIG0= 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

ELAS

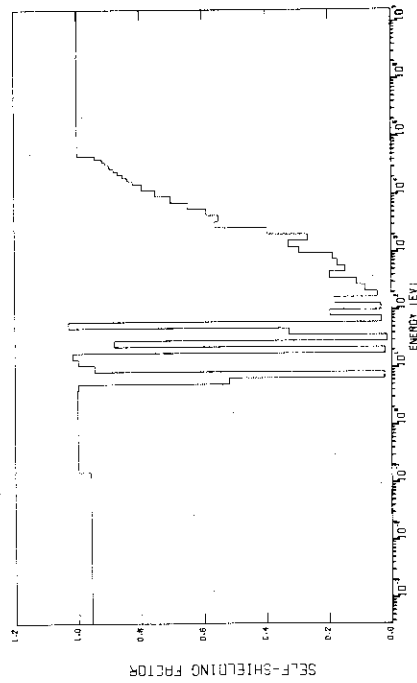
TEMPERATURE = 300 K  
SIG0= 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

CAPTURE

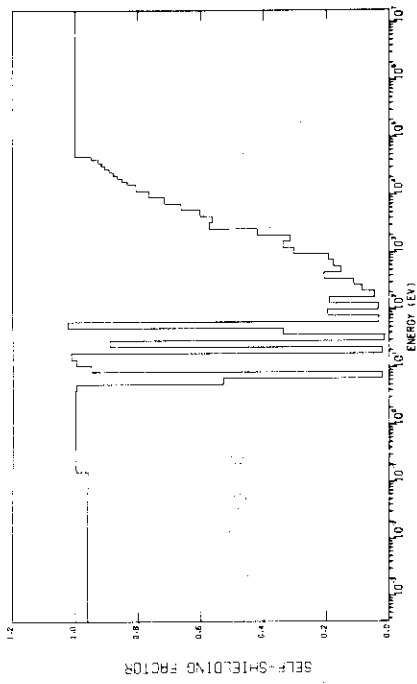
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

CAPTURE

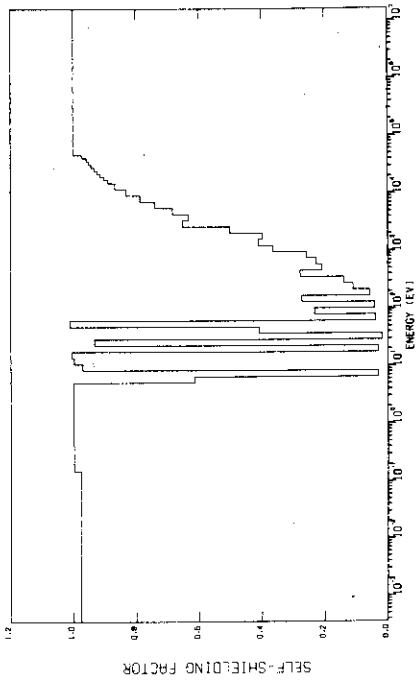
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

CAPTURE

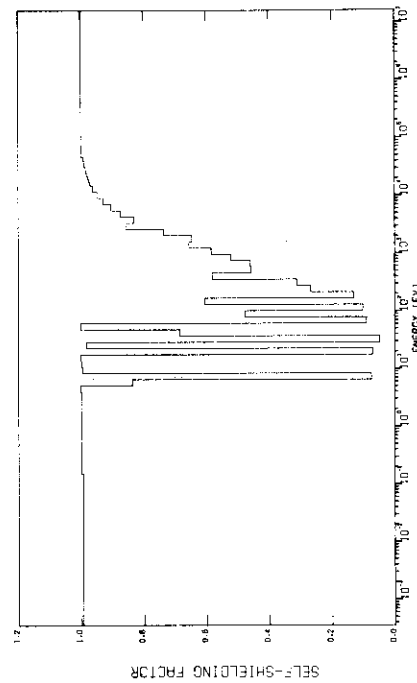
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

CAPTURE

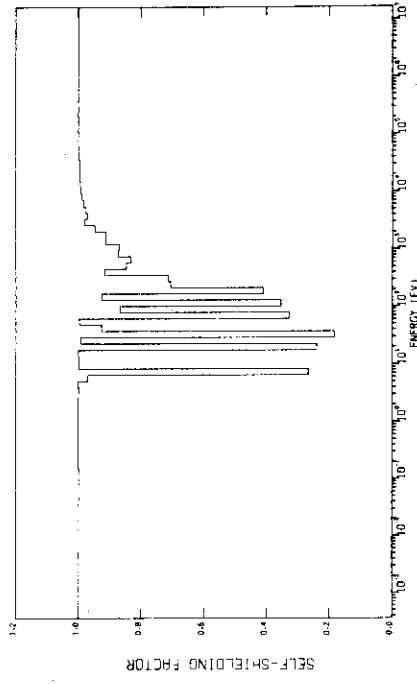
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

CAPTURE

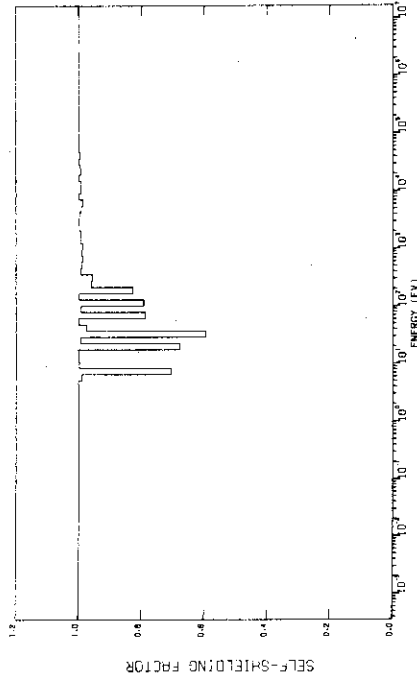
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

CAPTURE

TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)





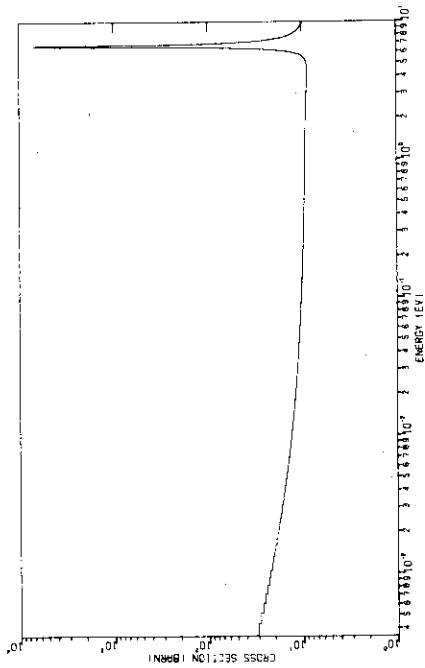
238 U  
92  
1262

JAERI-M 84-053

1262 U-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

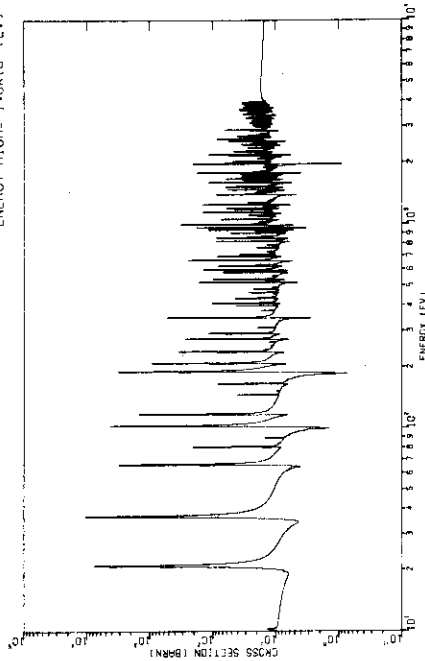
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

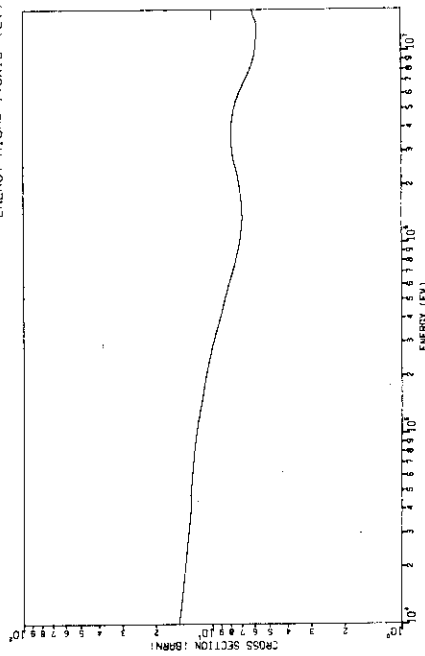
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

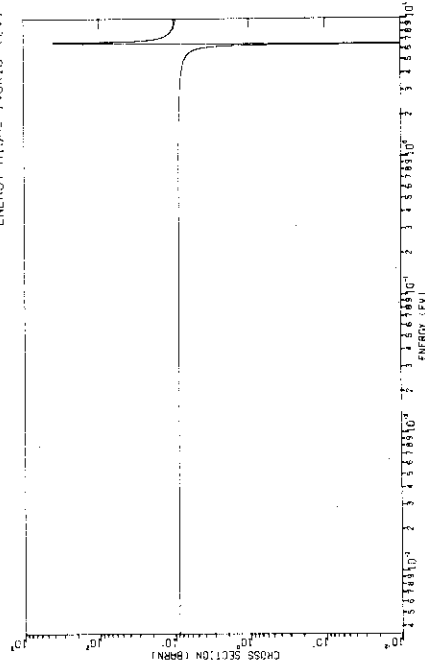
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

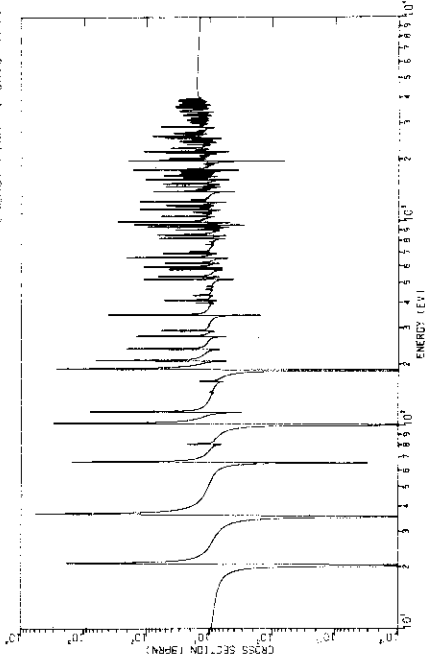
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

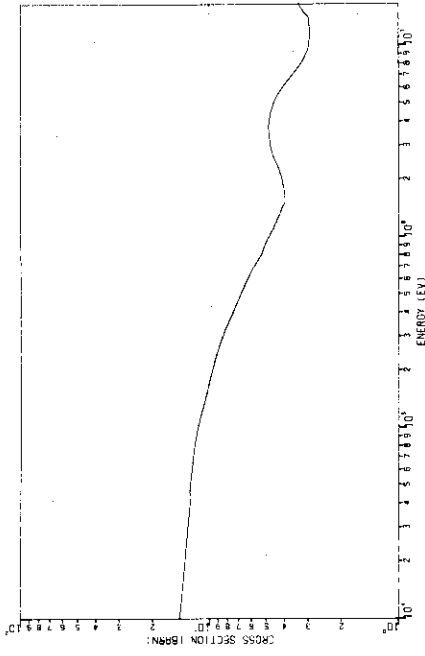
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

1262 U-238 FROM ENDF/B-IV ( 300K )

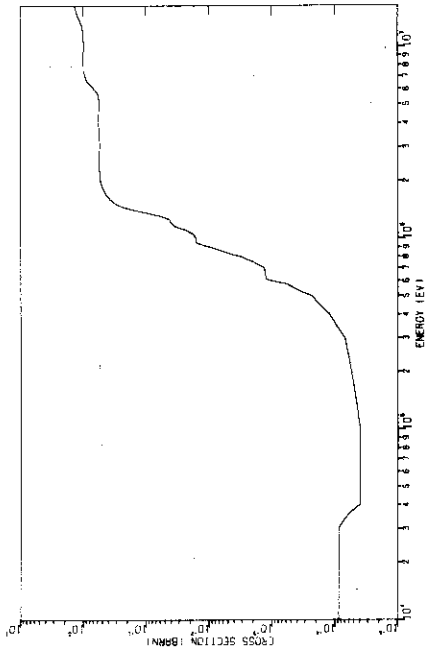
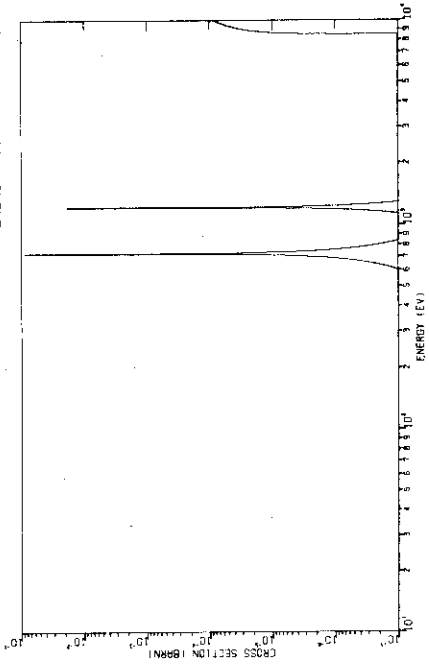
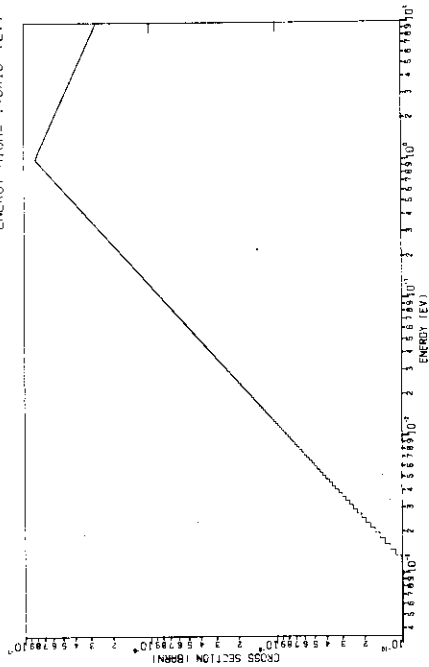
1262 U-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

TEMPERATURE = 300 K  
SIGG= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIGG= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIGG= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>4</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

1262 U-238 FROM ENDF/B-IV ( 300K )

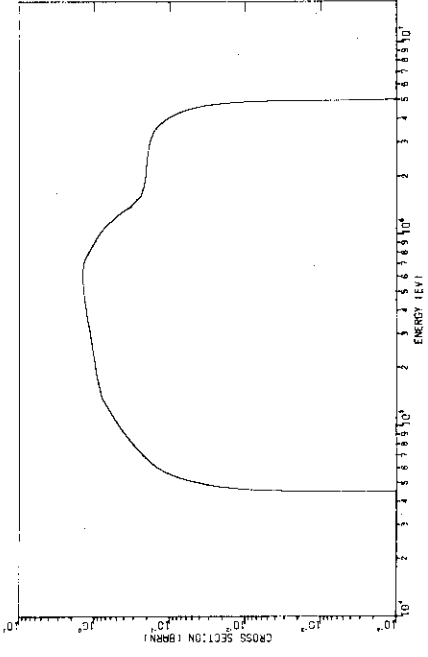
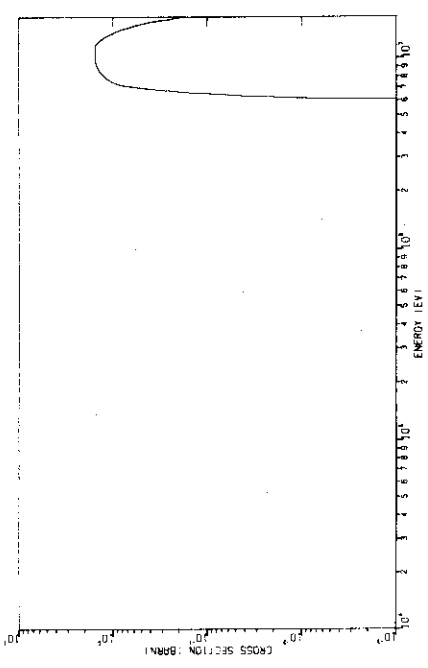
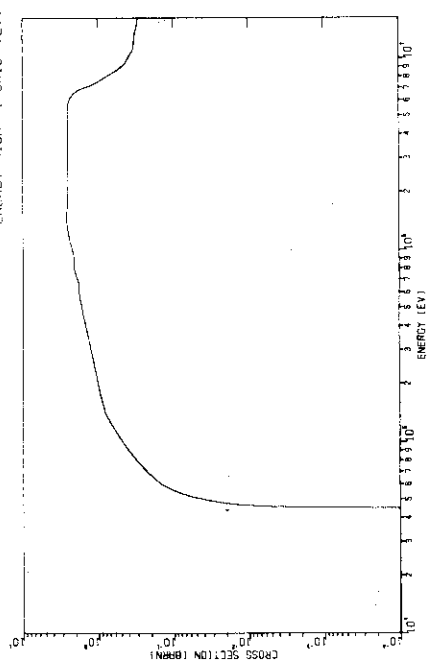
1262 U-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 4

TEMPERATURE = 300 K  
SIGG= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIGG= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIGG= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>4</sup> (EV)



1262 U-238 FROM ENDF/B-IV ( 300K )

1262 U-238 FROM ENDF/B-IV ( 300K )

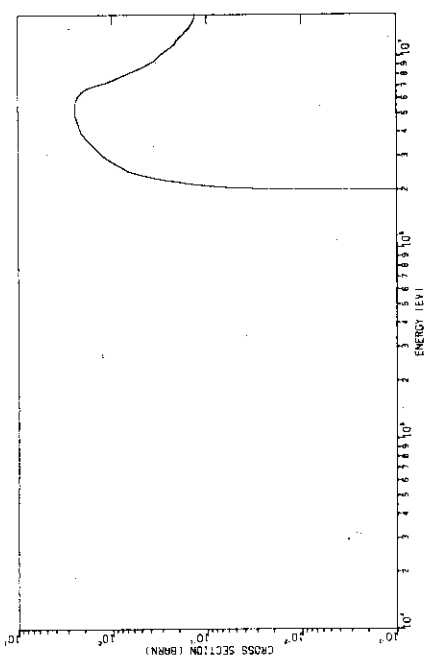
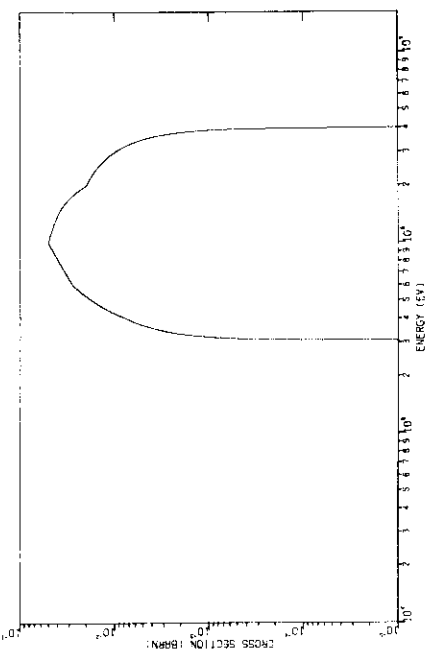
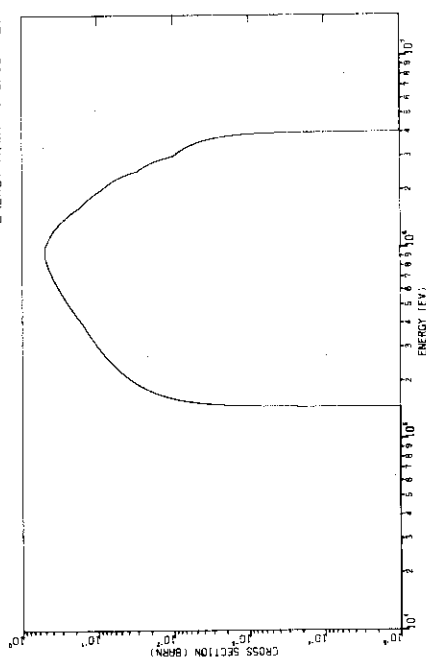
1262 U-238 FROM ENDF/B-IV ( 300K )

1262 U-238 FROM ENDF/B-IV ( 300K )

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



REACTION TYPE = 52

REACTION TYPE = 53

REACTION TYPE = 91

1262 U-238 FROM ENDF/B-IV ( 300K )

1262 U-238 FROM ENDF/B-IV ( 300K )

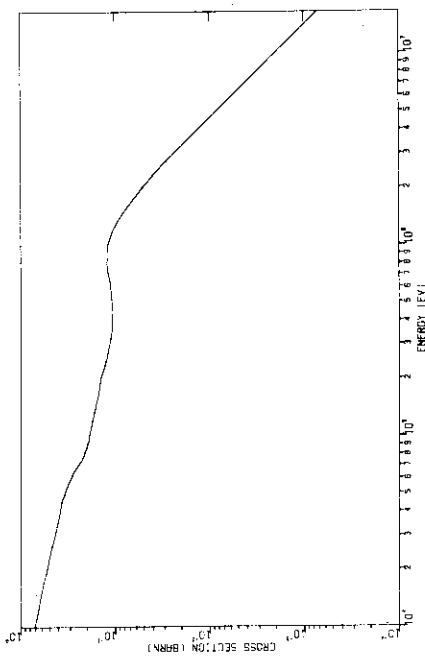
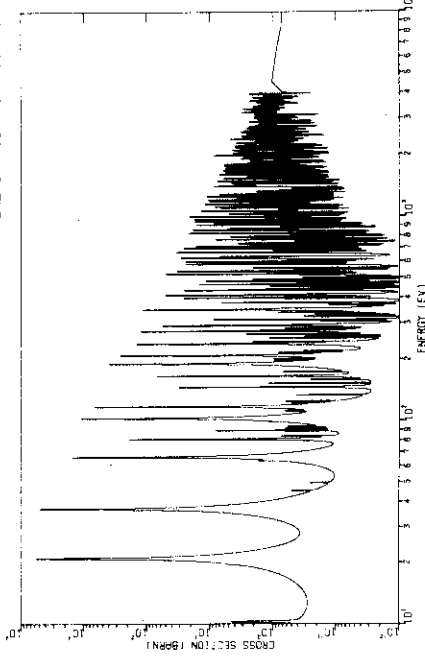
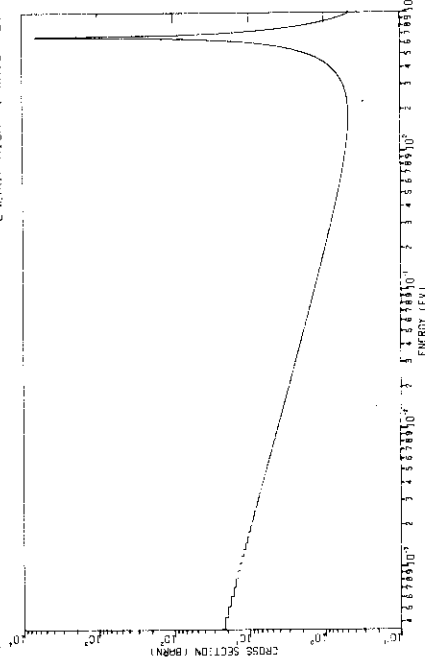
1262 U-238 FROM ENDF/B-IV ( 300K )

1262 U-238 FROM ENDF/B-IV ( 300K )

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



REACTION TYPE = 52

REACTION TYPE = 53

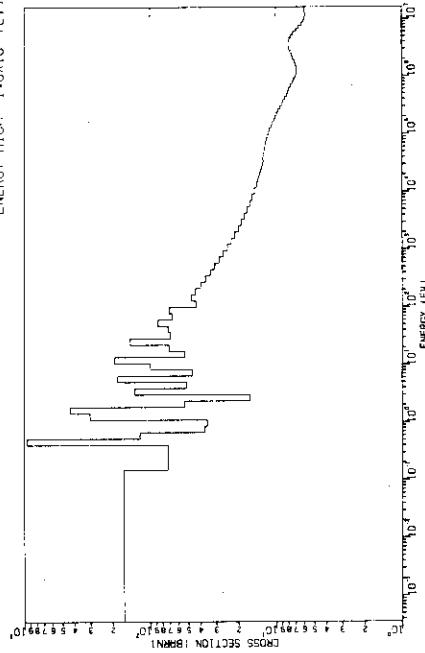
REACTION TYPE = 91

REACTION TYPE = 102

1263 NP-237 FROM ENDF/B-IV ( 300K )

TOTAL

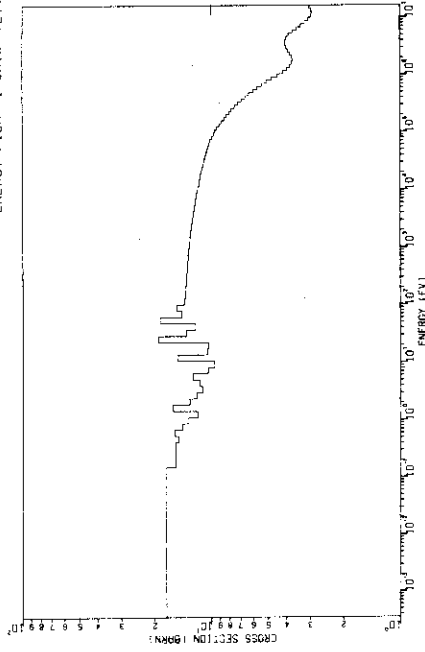
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

ELAS

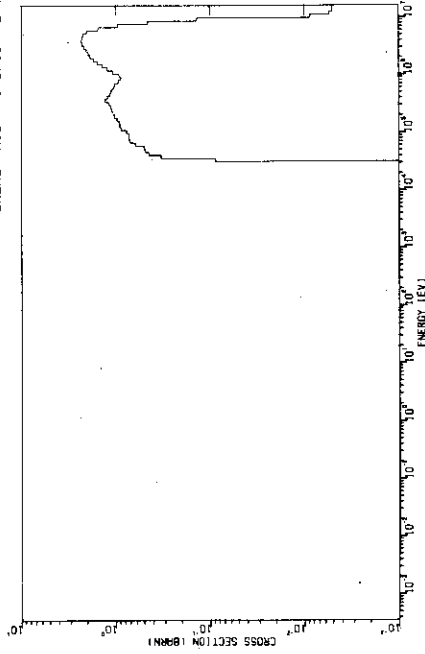
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

INELAS

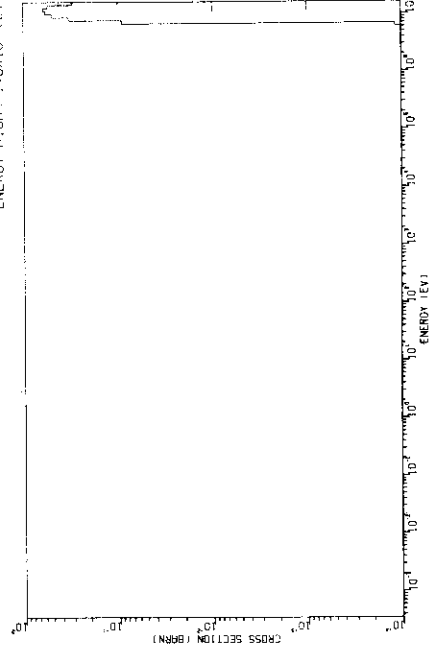
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

(N.2N)

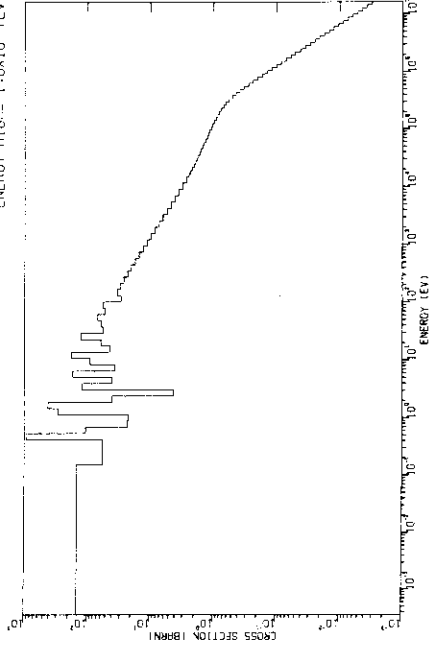
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

(N.G)

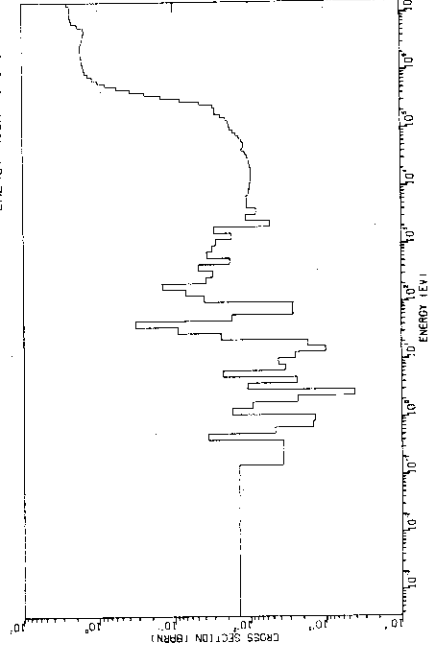
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

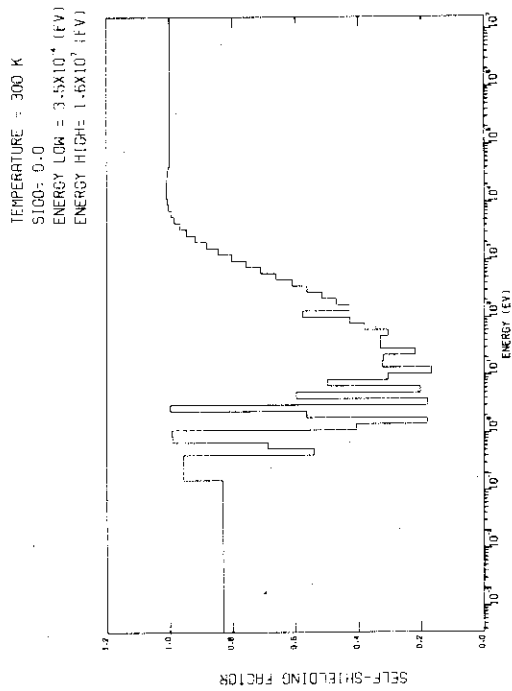
F I S S I O N

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



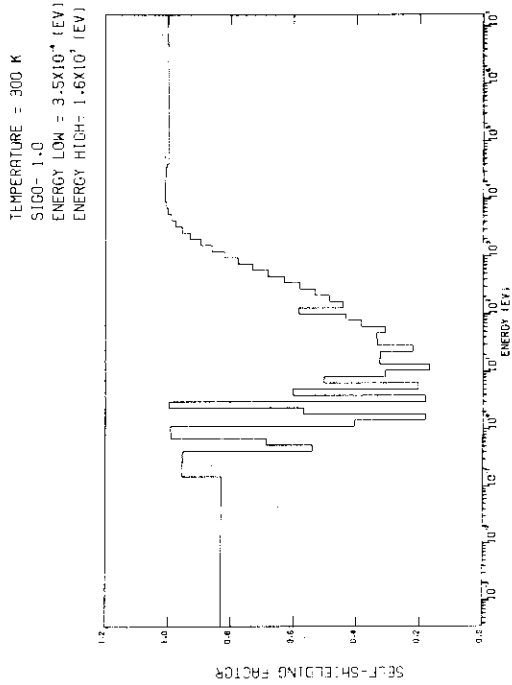
1263 NP-237 FROM ENDF/B-V ( 300K )

TOTAL



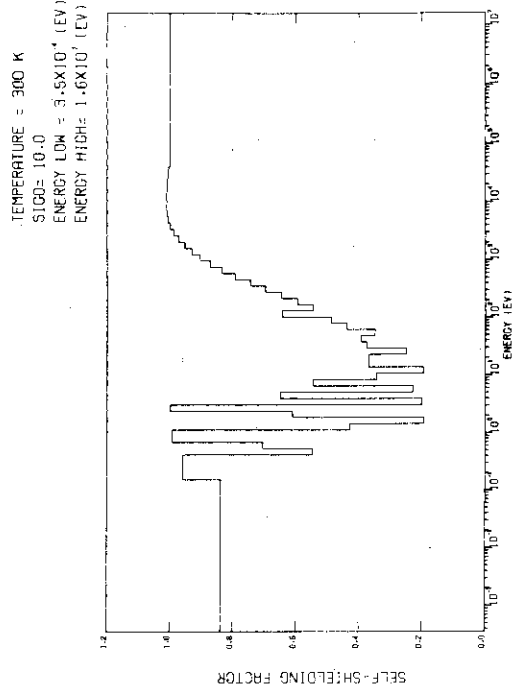
1263 NP-237 FROM ENDF/B-V ( 300K )

TOTAL



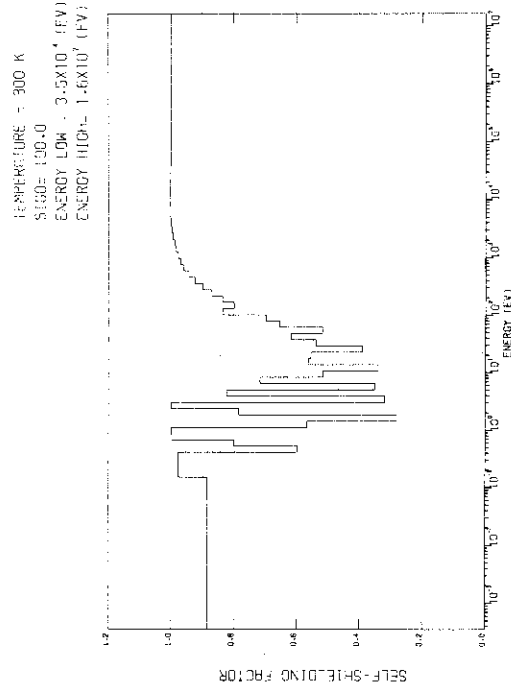
1263 NP-237 FROM ENDF/B-V ( 300K )

TOTAL



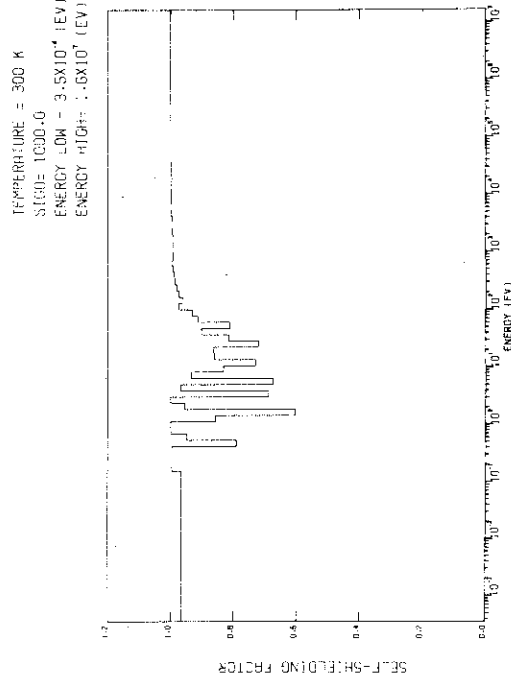
1263 NP-237 FROM ENDF/B-V ( 300K )

TOTAL



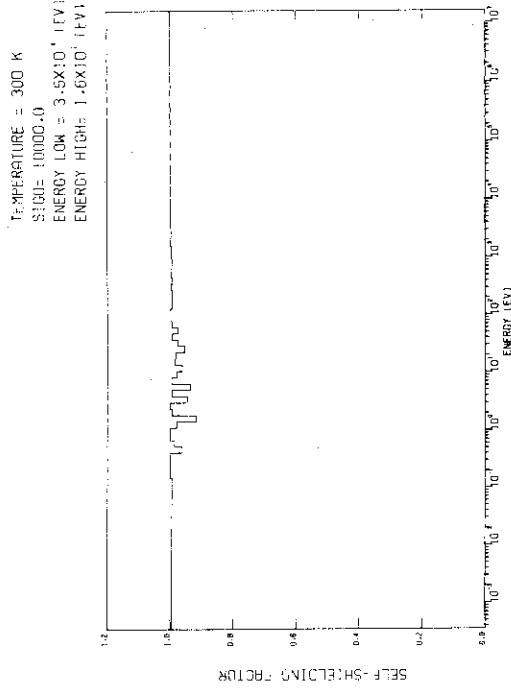
1263 NP-237 FROM ENDF/B-V ( 300K )

TOTAL



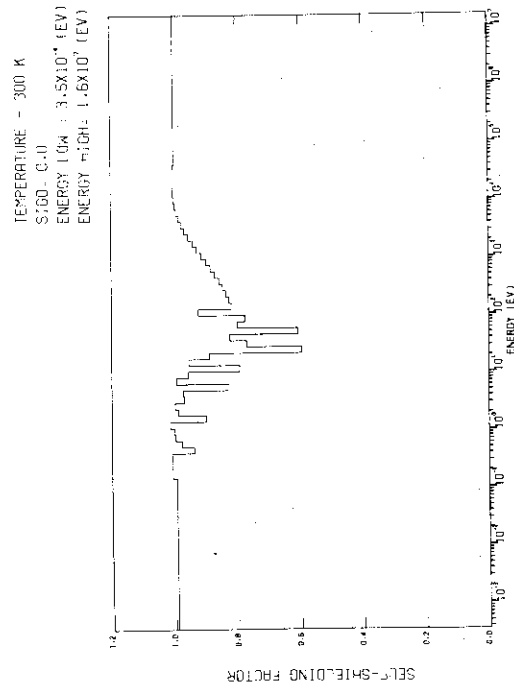
1263 NP-237 FROM ENDF/B-V ( 300K )

TOTAL



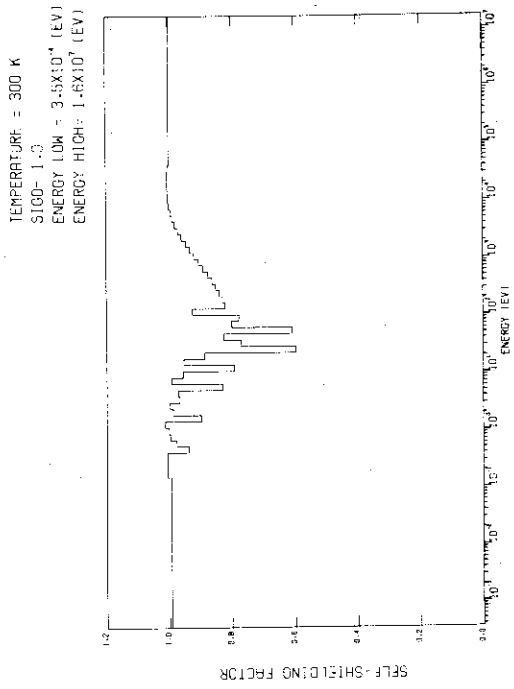
1263 NP-237 FROM ENDF/B-IV ( 300K )

ELRS



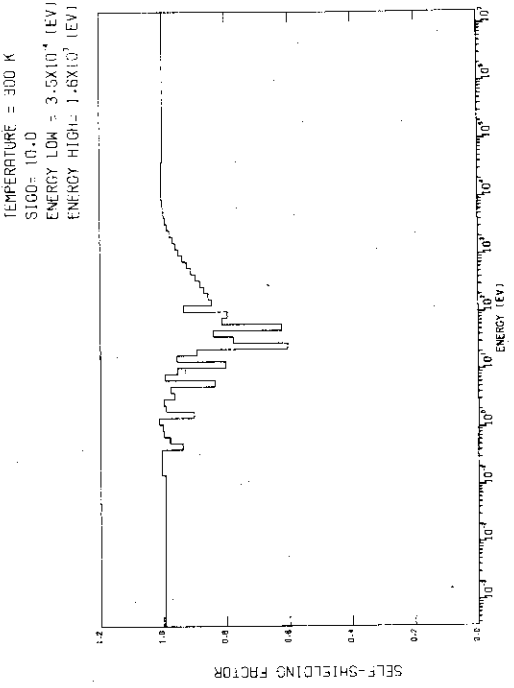
1263 NP-237 FROM ENDF/B-IV ( 300K )

ELRS



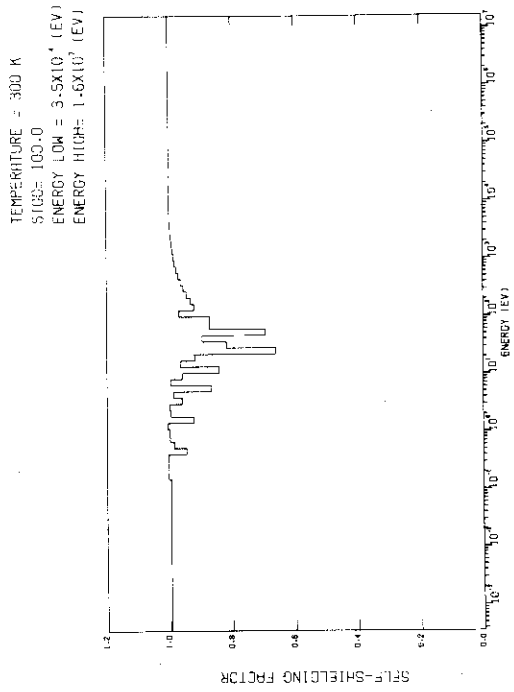
1263 NP-237 FROM ENDF/B-IV ( 300K )

ELRS



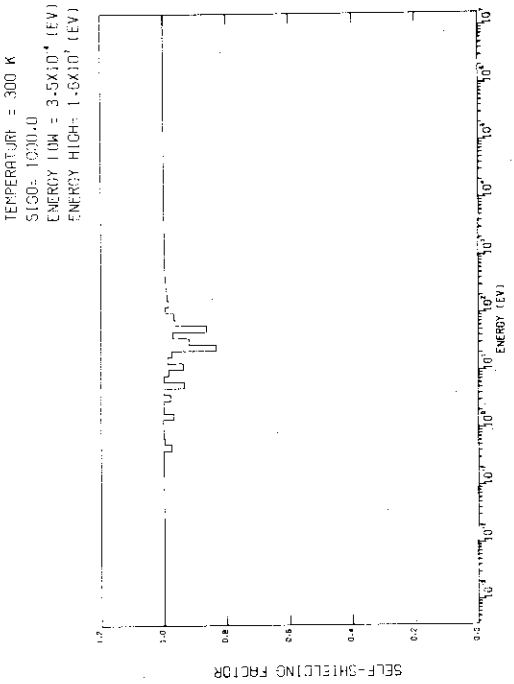
1263 NP-237 FROM ENDF/B-IV ( 300K )

ELRS



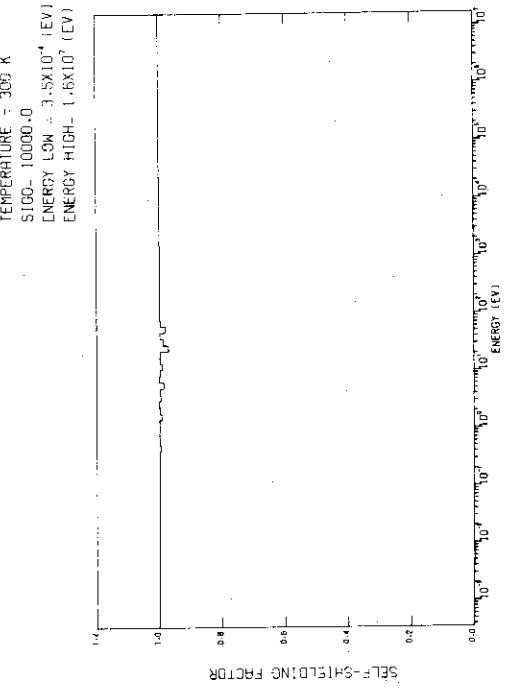
1263 NP-237 FROM ENDF/B-IV ( 300K )

ELRS



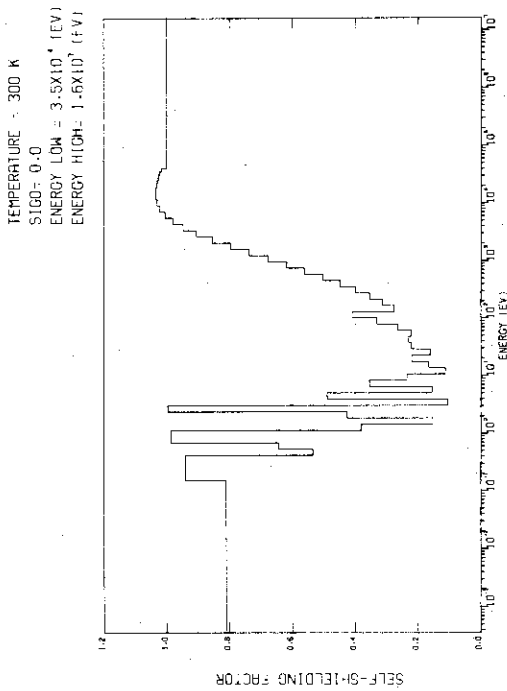
1263 NP-237 FROM ENDF/B-IV ( 300K )

ELRS



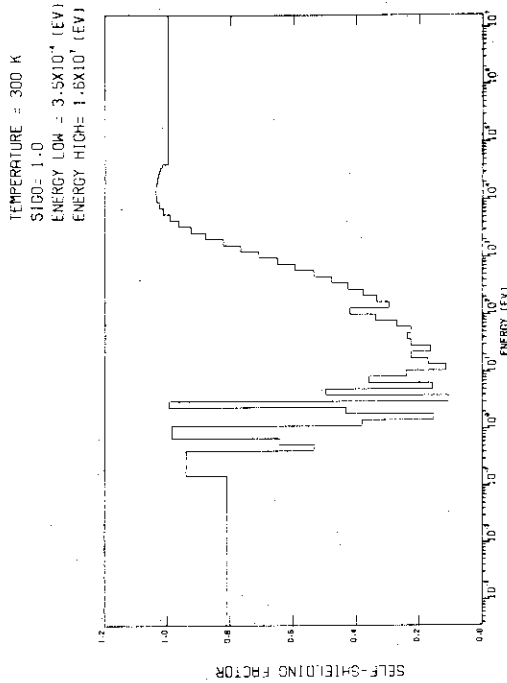
1263 NP-237 FROM ENDF/B-IV ( 300K )

CAPTURE



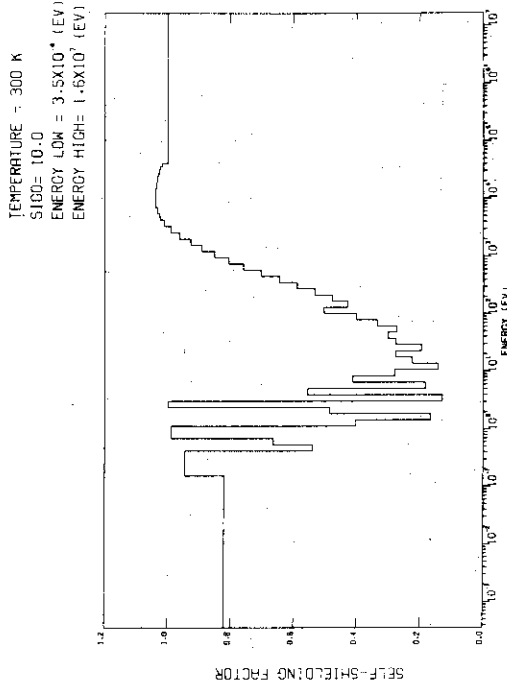
1263 NP-237 FROM ENDF/B-IV ( 300K )

CAPTURE



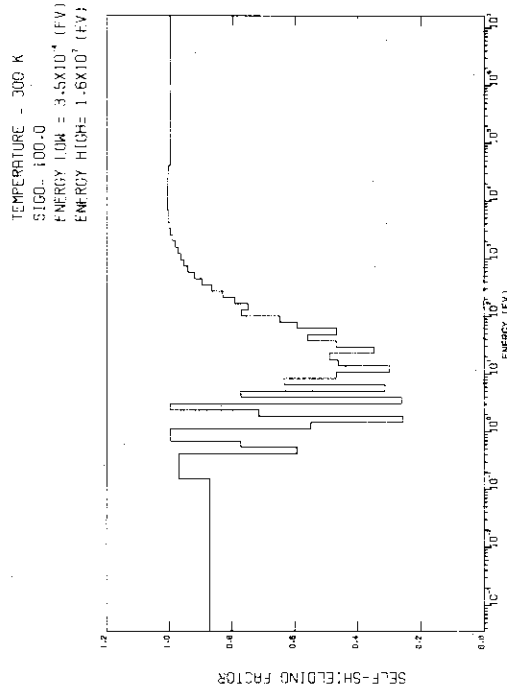
1263 NP-237 FROM ENDF/B-IV ( 300K )

CAPTURE



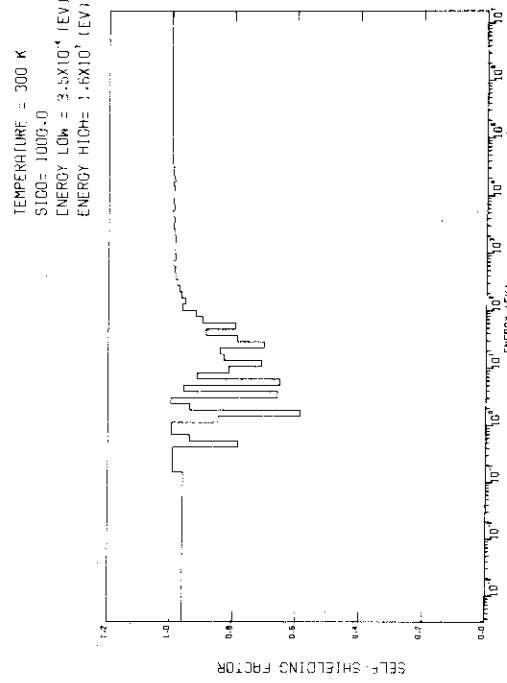
1263 NP-237 FROM ENDF/B-IV ( 300K )

CAPTURE



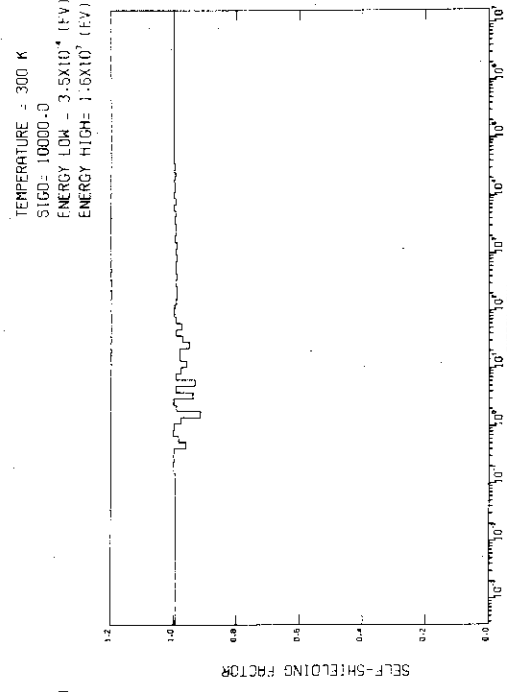
1263 NP-237 FROM ENDF/B-IV ( 300K )

CAPTURE



1263 NP-237 FROM ENDF/B-IV ( 300K )

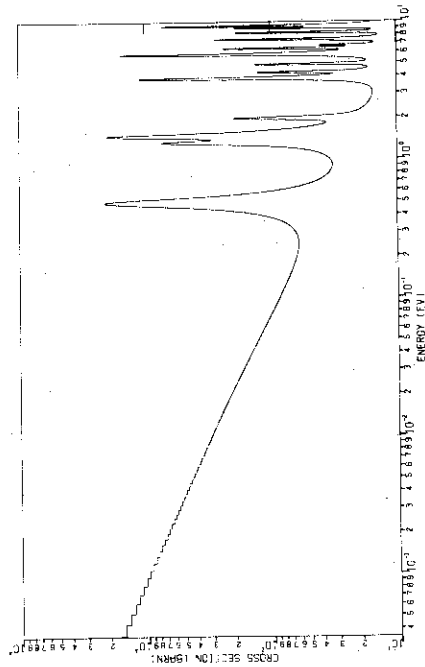
CAPTURE



1263 NP-237 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

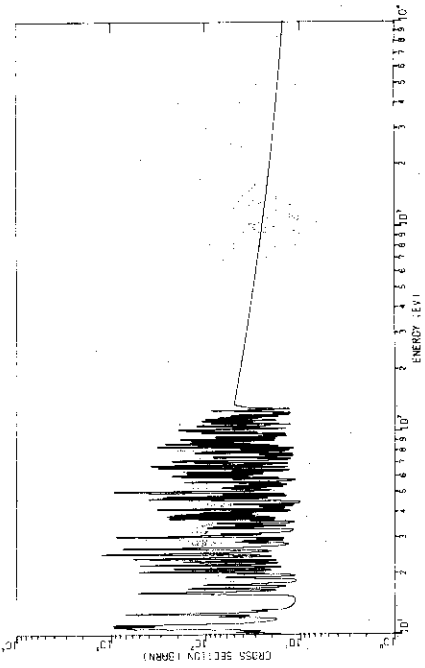
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

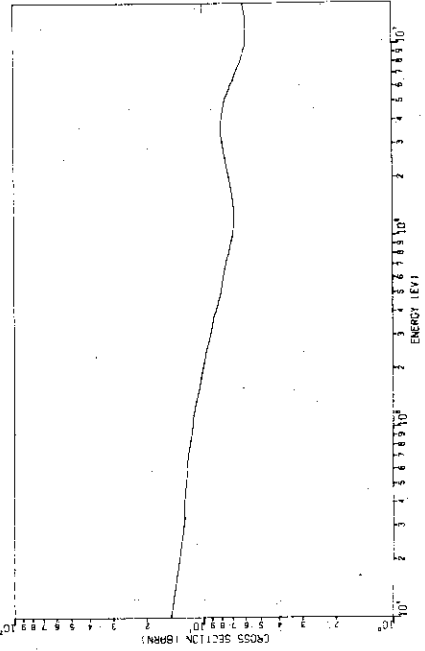
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

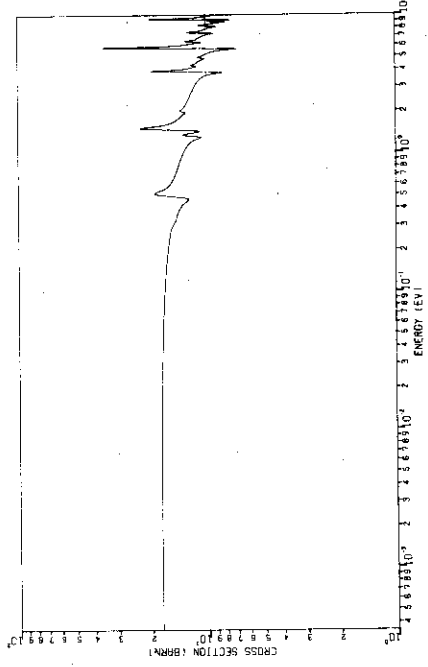
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

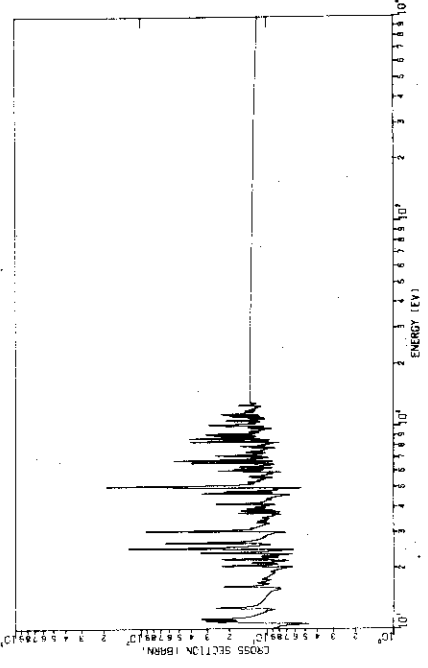
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

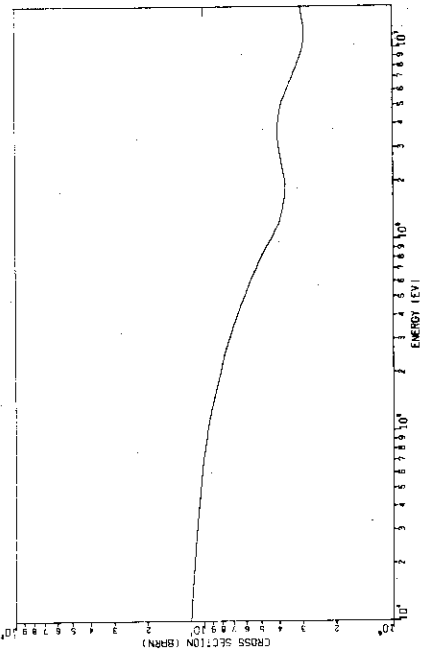
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1263 NP-237 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)





1263 NP-237 FROM ENDF/B-IV ( 300K )

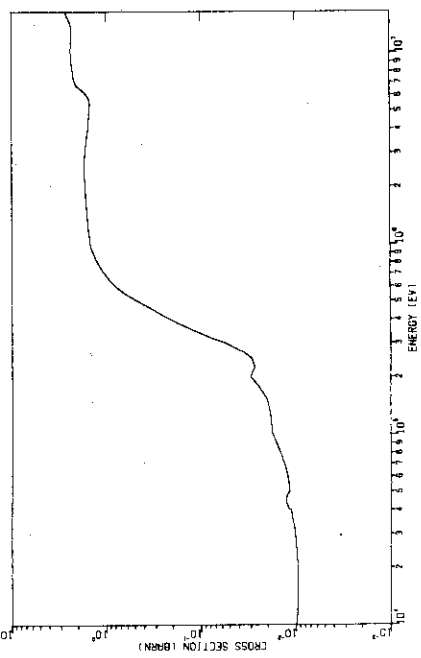
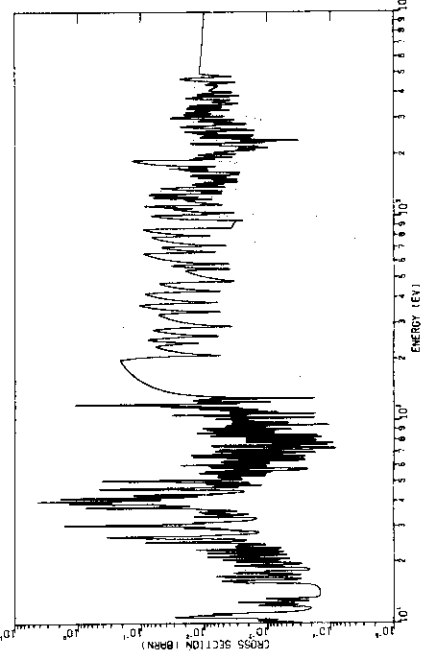
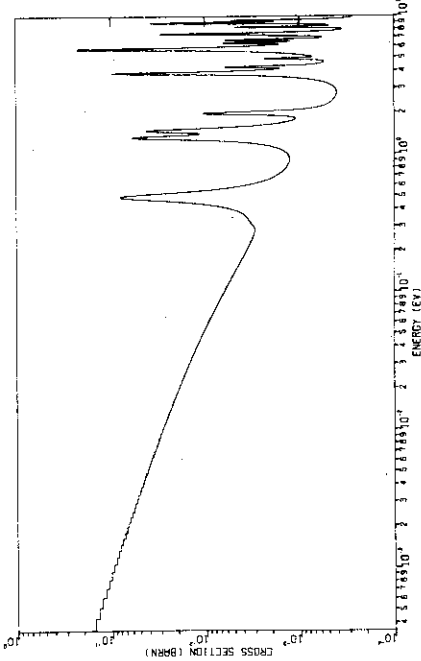
1263 NP-237 FROM ENDF/B-IV ( 300K )

1263 NP-237 FROM ENDF/B-IV ( 300K )

TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>4</sup> (EV)



REACTION TYPE = 18

REACTION TYPE = 18

REACTION TYPE = 18

1263 NP-237 FROM ENDF/B-IV ( 300K )

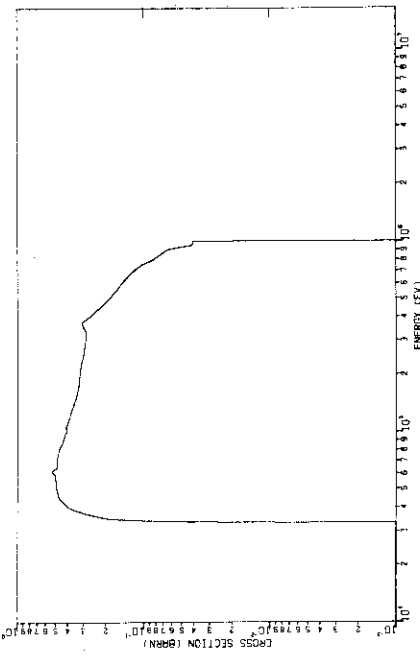
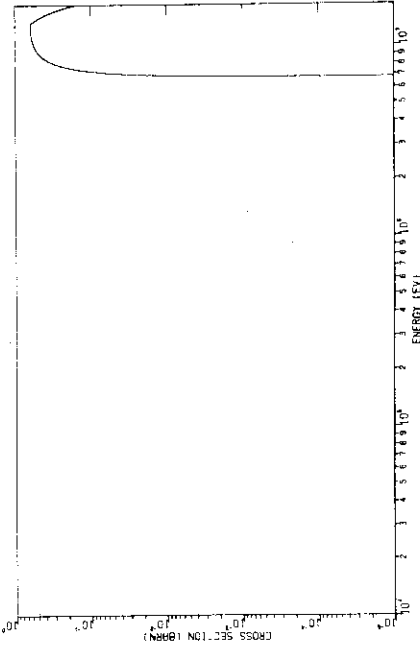
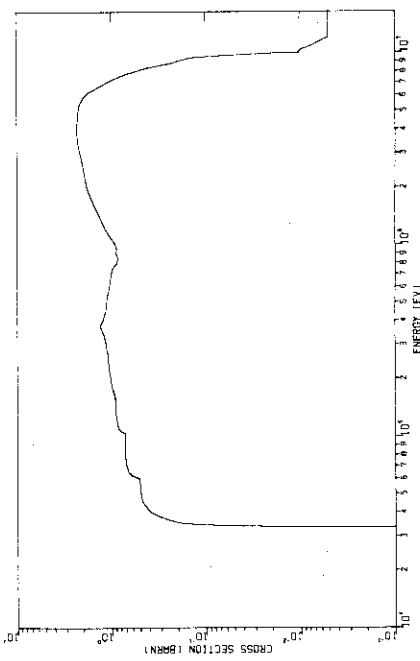
1263 NP-237 FROM ENDF/B-IV ( 300K )

1263 NP-237 FROM ENDF/B-IV ( 300K )

TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>4</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 10000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>4</sup> (EV)



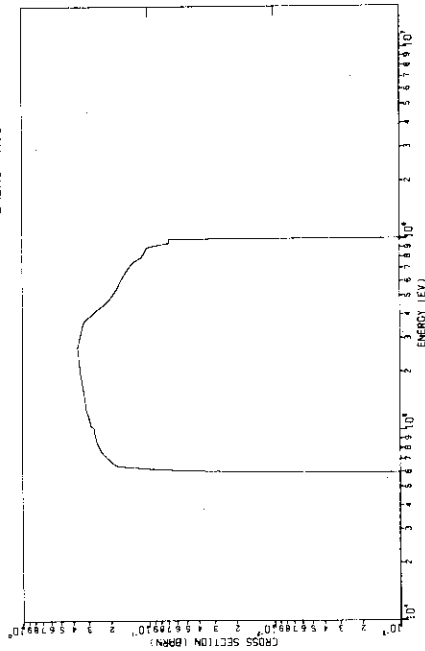
REACTION TYPE = 16

REACTION TYPE = 51

REACTION TYPE = 51

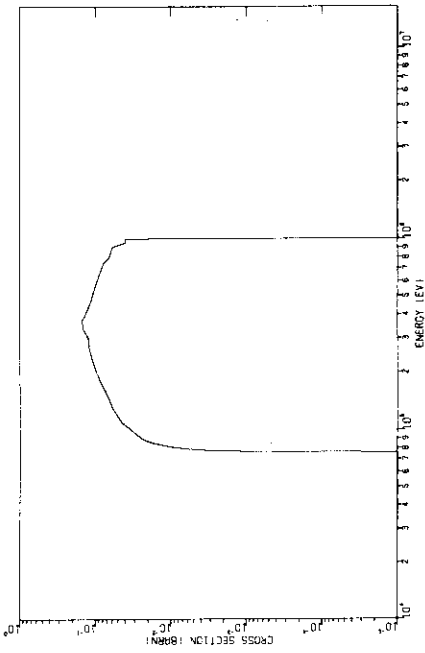
1263 NP-237 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 52

TEMPERATURE = 300 K  
SI(0) = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



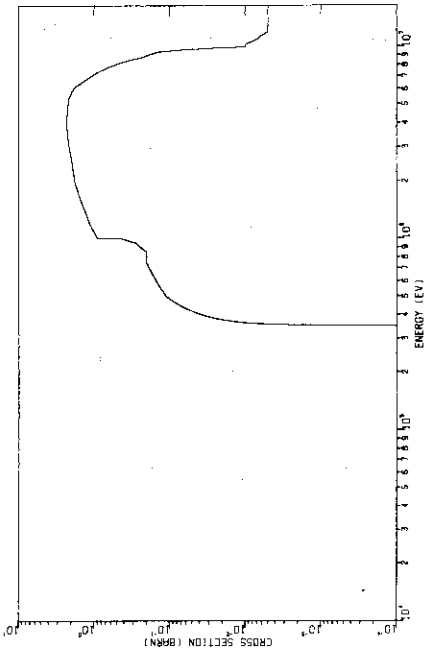
1263 NP-237 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 53

TEMPERATURE = 300 K  
SI(0) = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



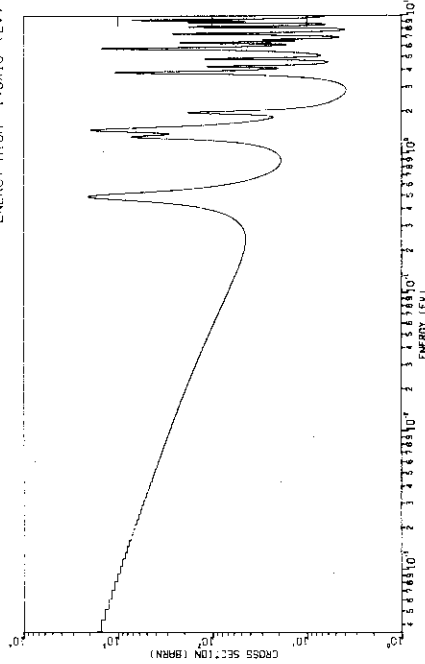
1263 NP-237 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 91

TEMPERATURE = 300 K  
SI(0) = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



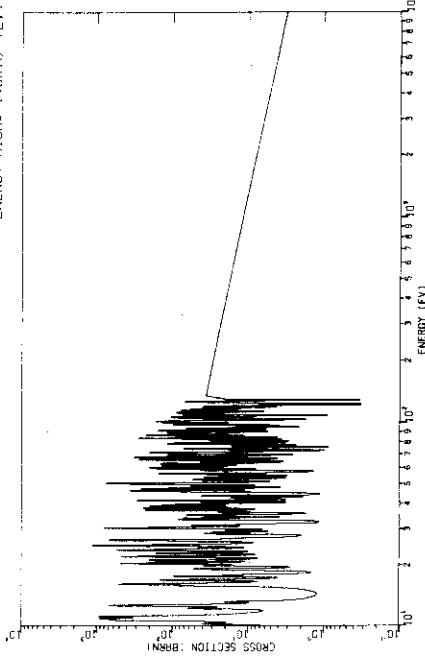
1263 NP-237 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 102

TEMPERATURE = 300 K  
SI(0) = 100000000.0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



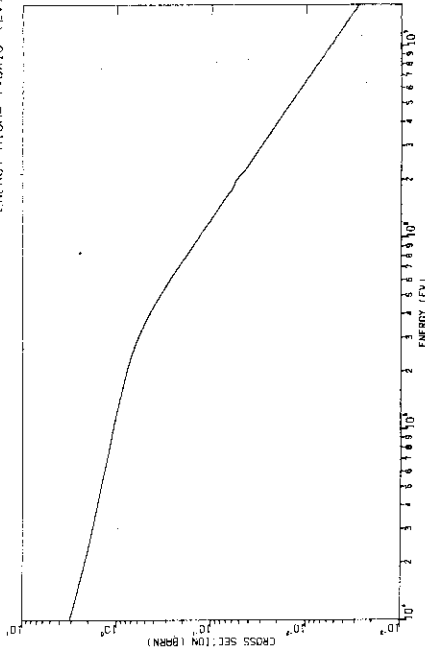
1263 NP-237 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 102

TEMPERATURE = 300 K  
SI(0) = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



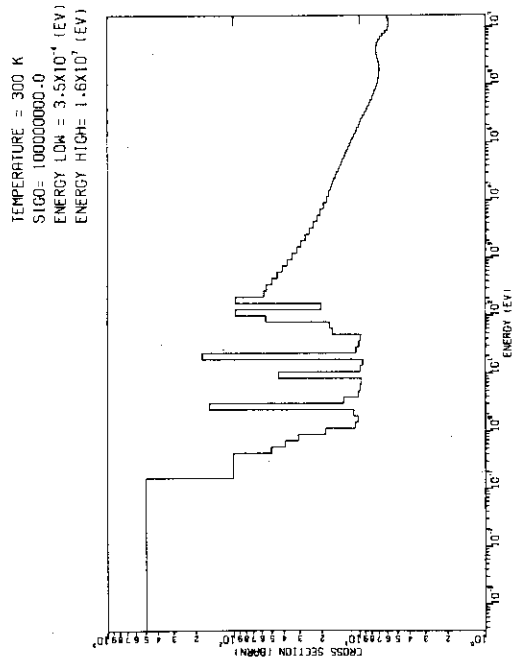
1263 NP-237 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 102

TEMPERATURE = 300 K  
SI(0) = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



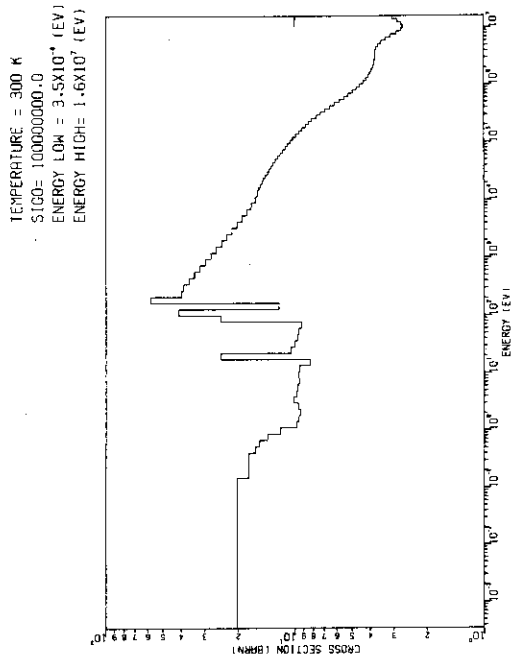
1050 PU-238 FROM ENDF/B-IV ( 300K )

TOTAL



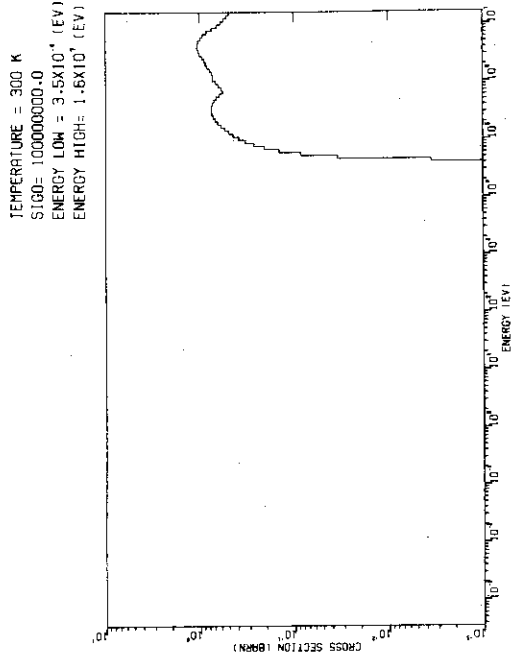
1050 PU-238 FROM ENDF/B-IV ( 300K )

ELRS



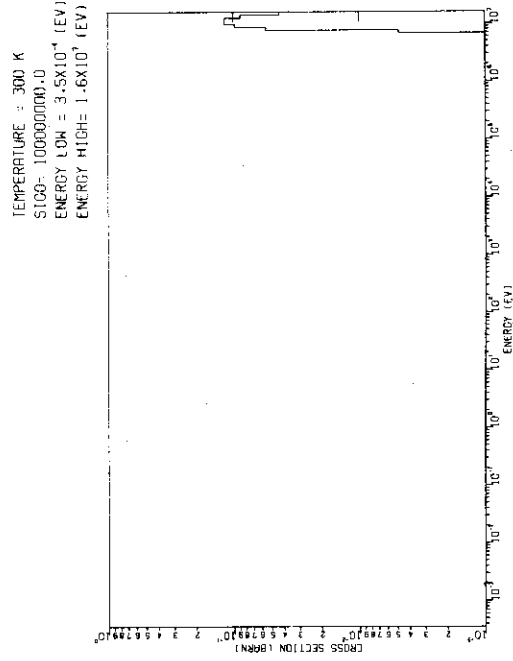
1050 PU-238 FROM ENDF/B-IV ( 300K )

INELRS



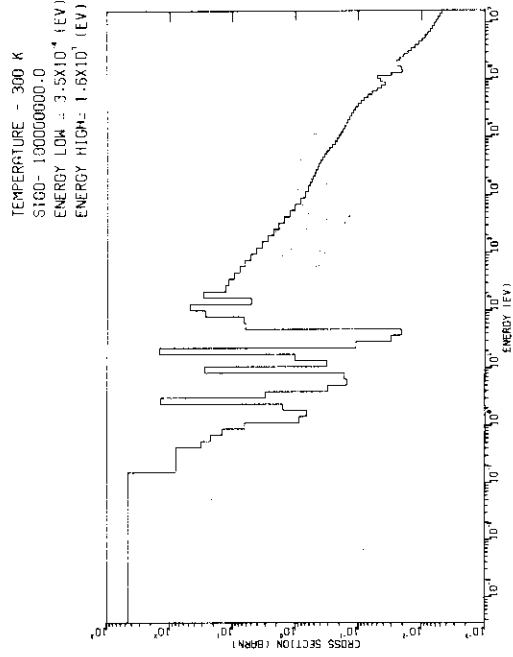
1050 PU 238 FROM ENDF/B-IV ( 300K )

(N,2N)



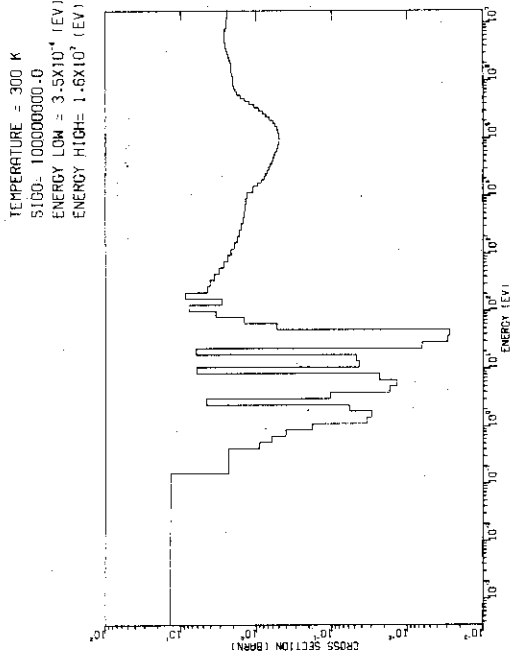
1050 PU-238 FROM ENDF/B-IV ( 300K )

(N,G)



1050 PU-238 FROM ENDF/B-IV ( 300K )

FISSION



1050 PU-238 FROM ENDF/B-IV ( 300K )

1050 PU-238 FROM ENDF/B-IV ( 300K )

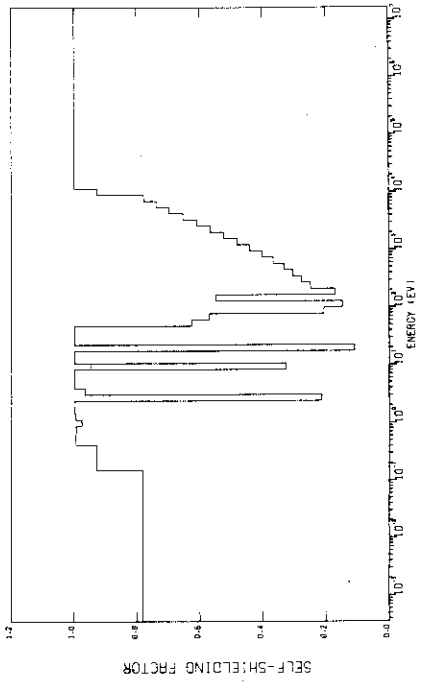
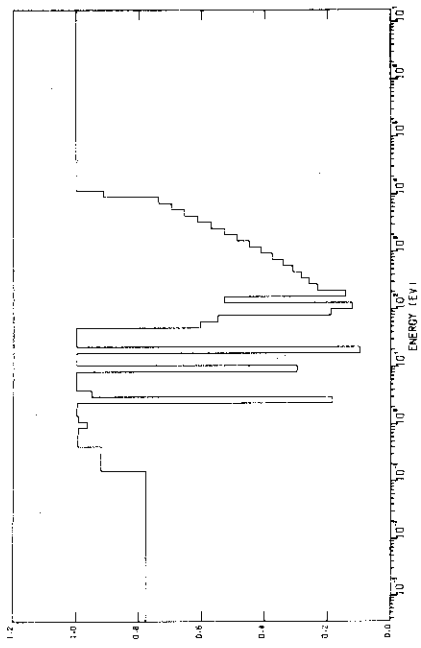
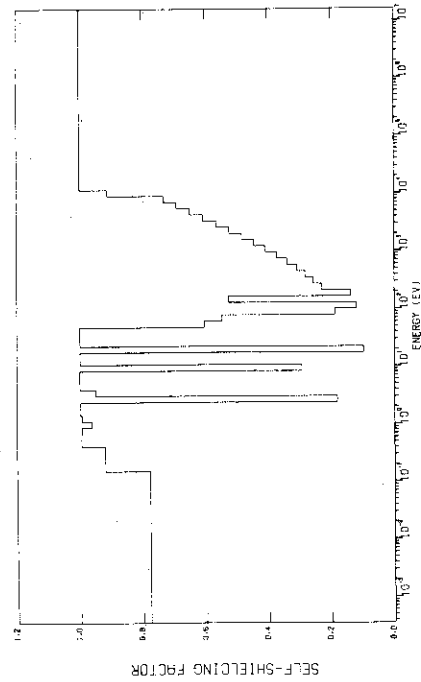
1050 PU-238 FROM ENDF/B-IV ( 300K )

TOTAL

TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)

TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)

TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

1050 PU-238 FROM ENDF/B-IV ( 300K )

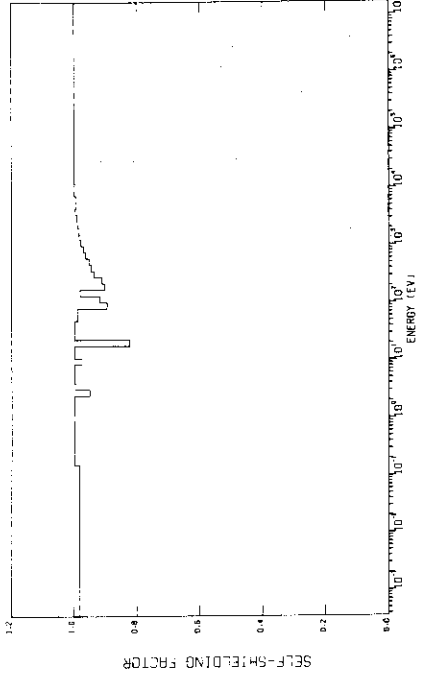
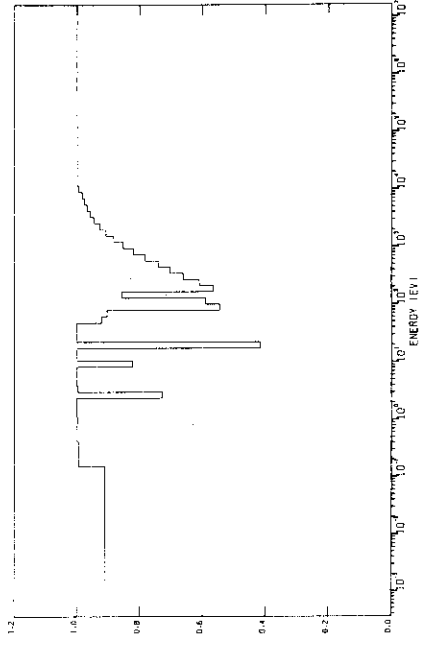
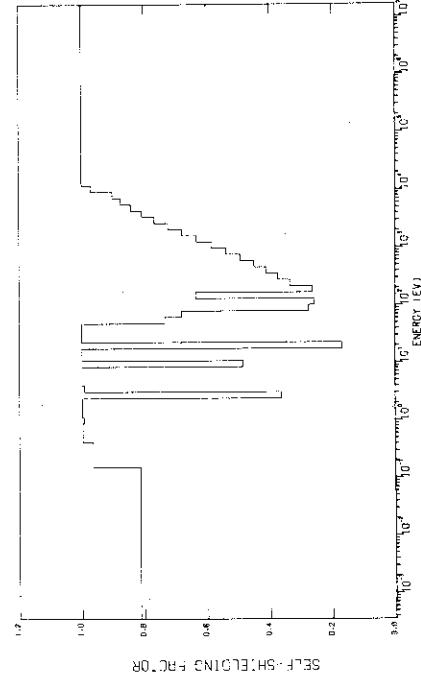
1050 PU-238 FROM ENDF/B-IV ( 300K )

TOTAL

TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)

TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)

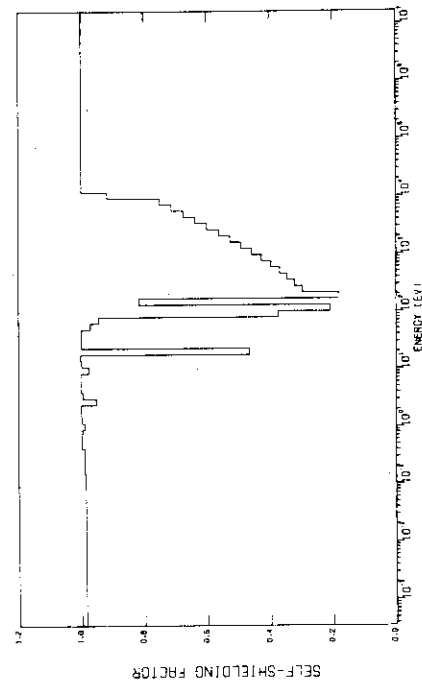
TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

ELAS

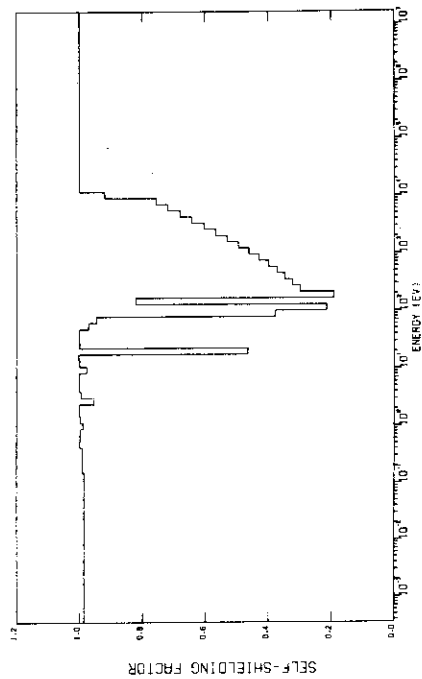
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

ELAS

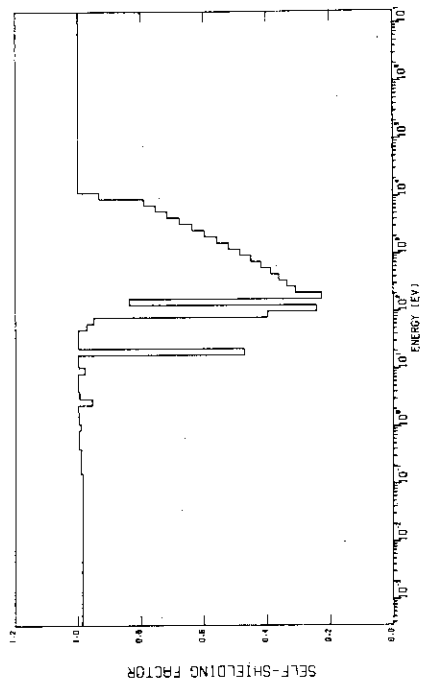
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

ELAS

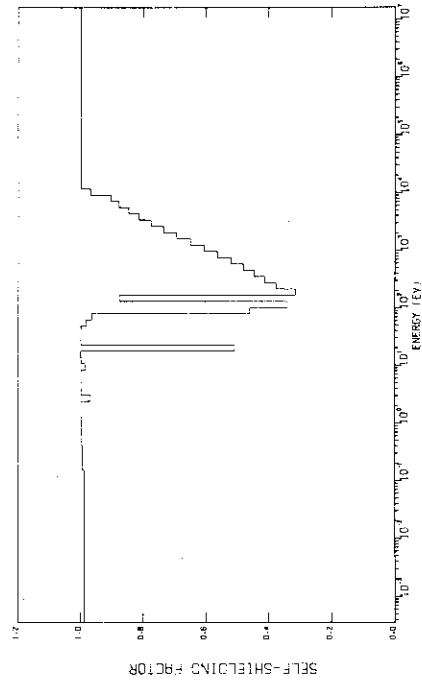
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

ELAS

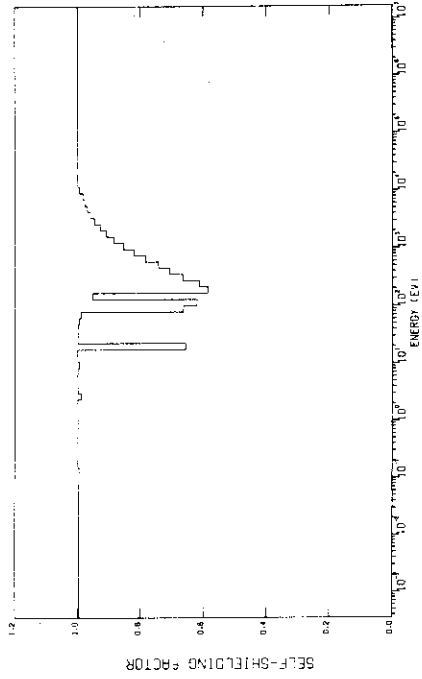
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

ELAS

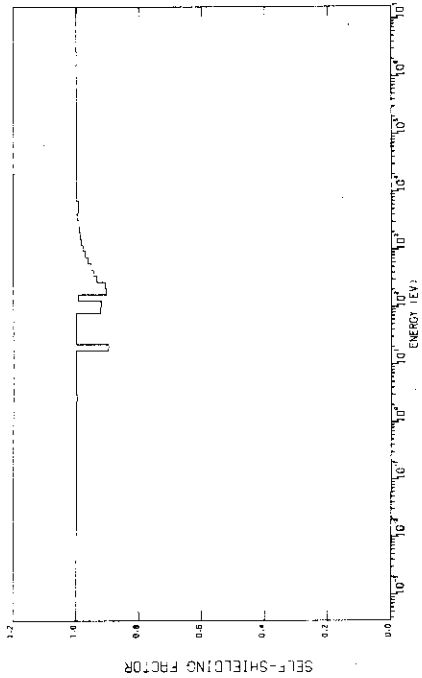
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

ELAS

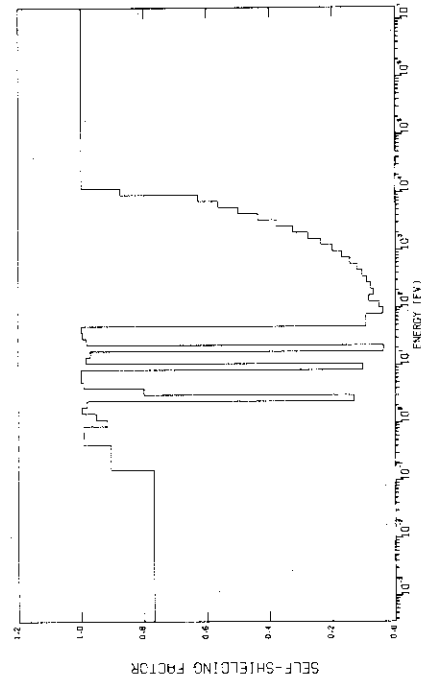
TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

CAPTURE

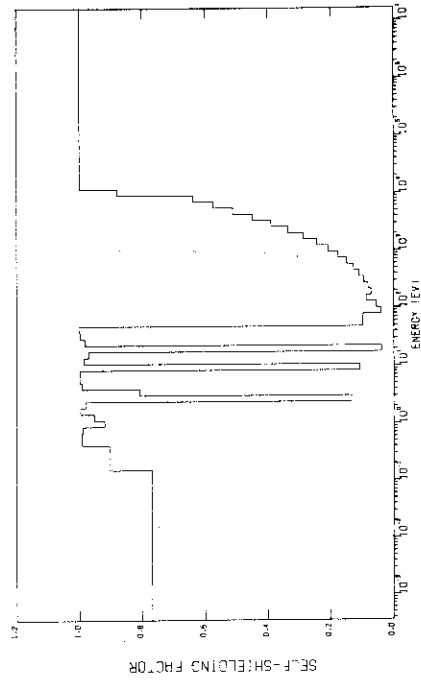
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

CAPTURE

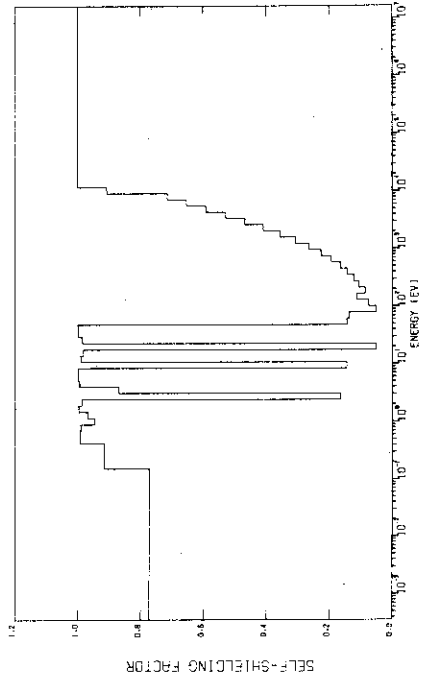
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

CAPTURE

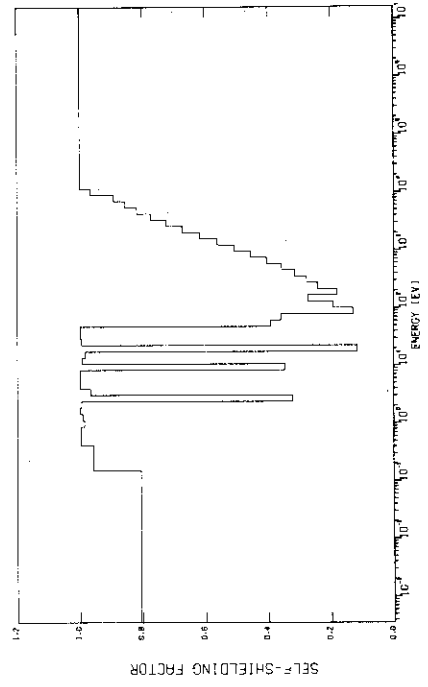
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

CAPTURE

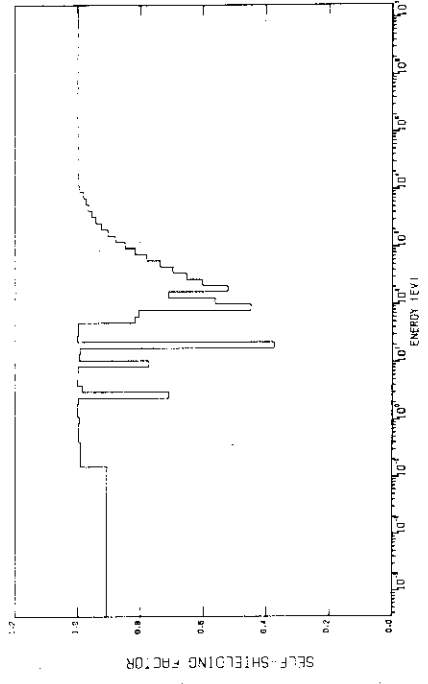
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

CAPTURE

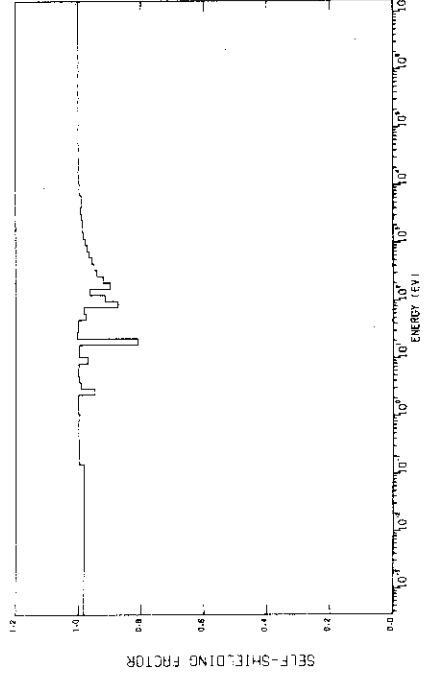
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

CAPTURE

TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

1050 PU-238 FROM ENDF/B-IV ( 300K )

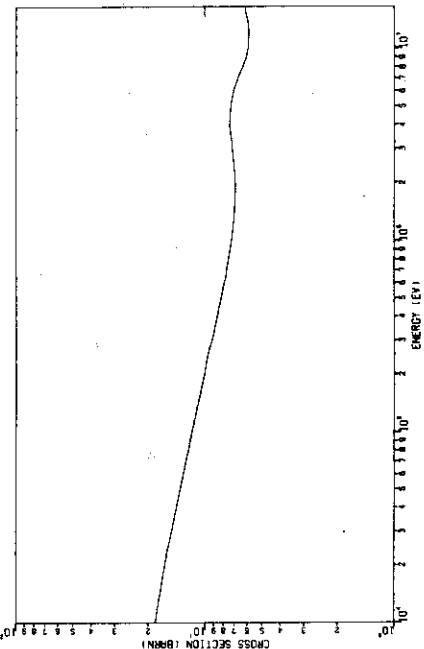
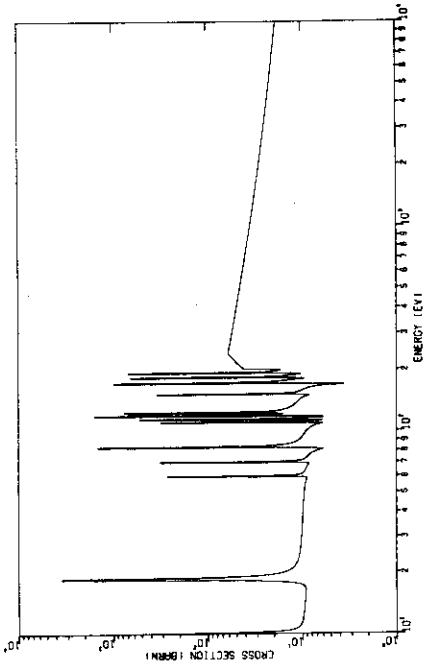
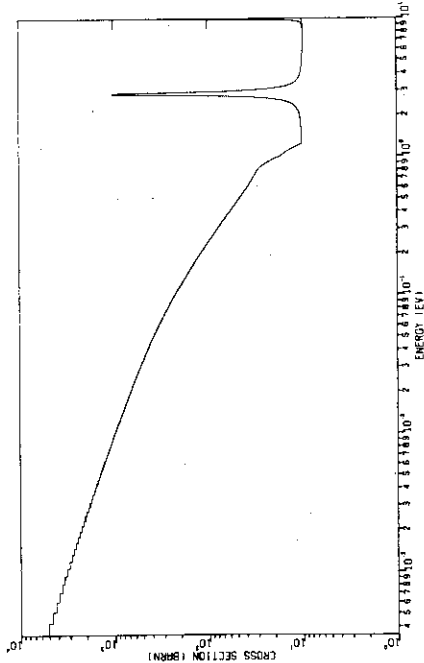
1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



REACTION TYPE = 1

REACTION TYPE = 1

REACTION TYPE = 1

1050 PU-238 FROM ENDF/B-IV ( 300K )

1050 PU-238 FROM ENDF/B-IV ( 300K )

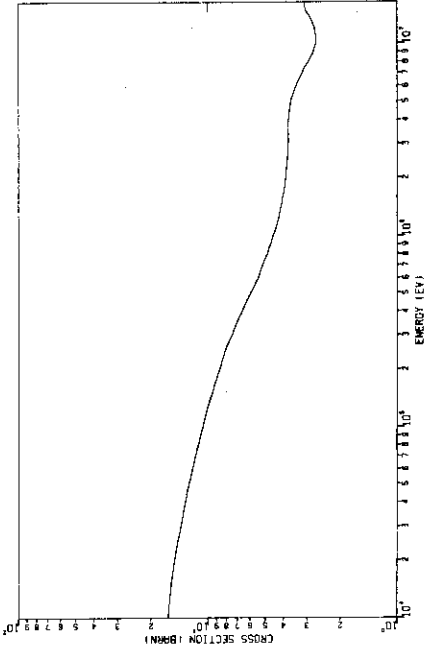
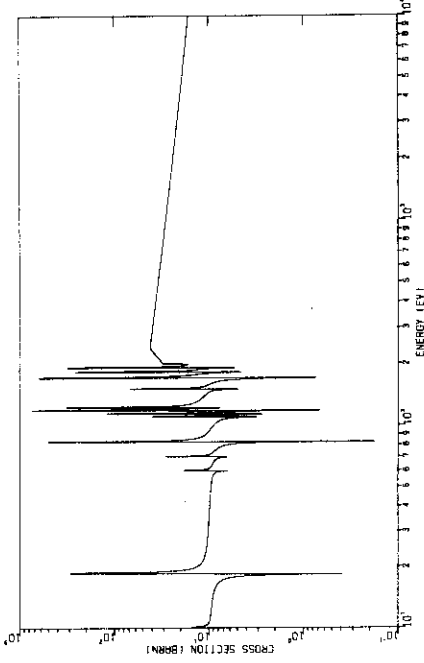
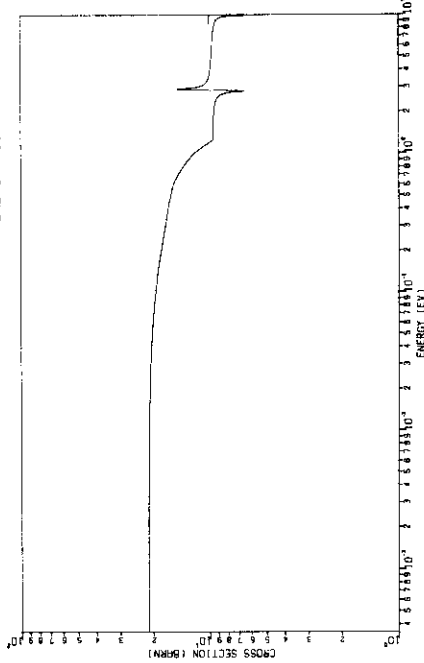
1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



REACTION TYPE = 1

REACTION TYPE = 1

REACTION TYPE = 1

REACTION TYPE = 2

REACTION TYPE = 2

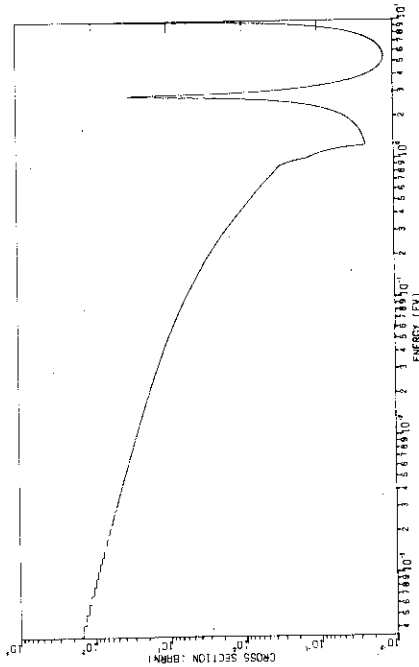
REACTION TYPE = 2

REACTION TYPE = 2

1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = F 18

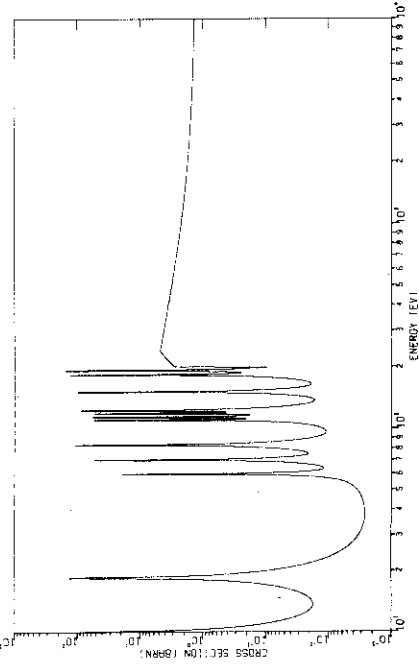
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

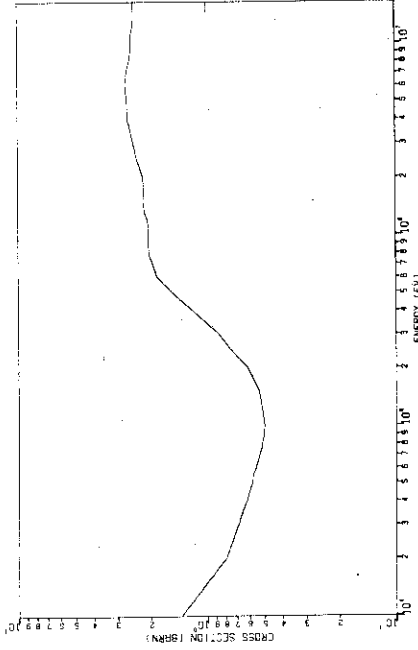
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

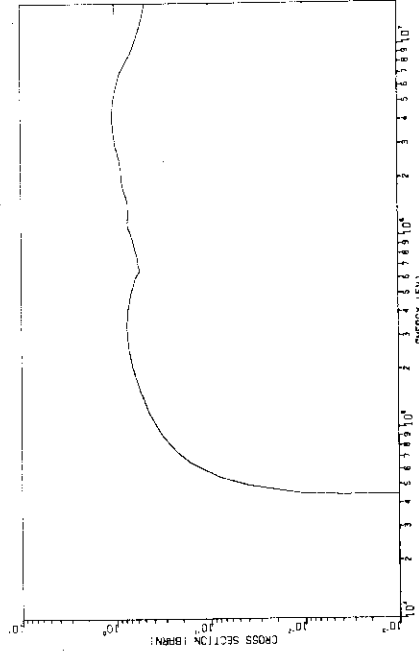
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>4</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 4

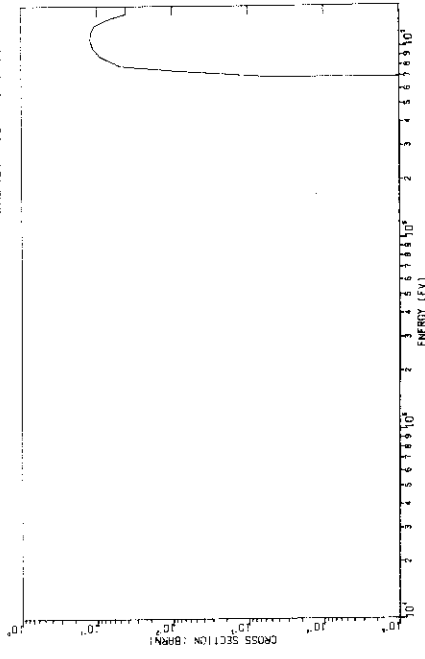
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>4</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

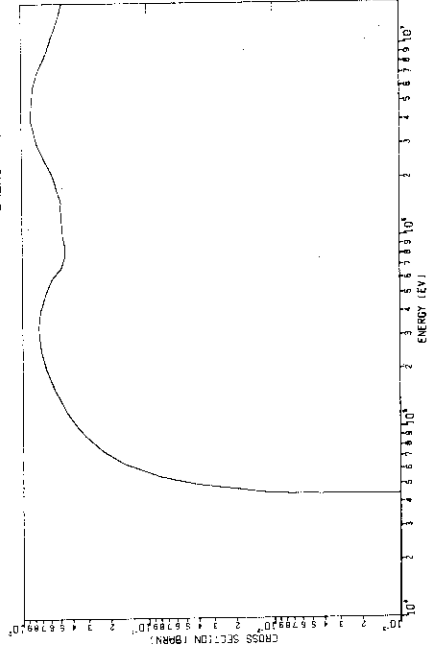
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>4</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 51

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>4</sup> (EV)





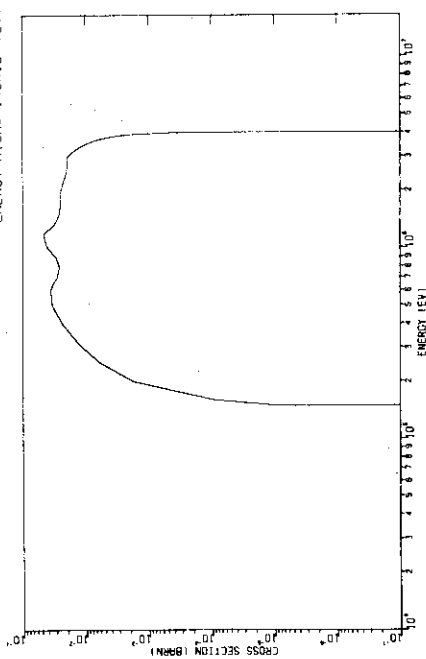
**238**  
**94 Pu**  
**1050**

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1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 52

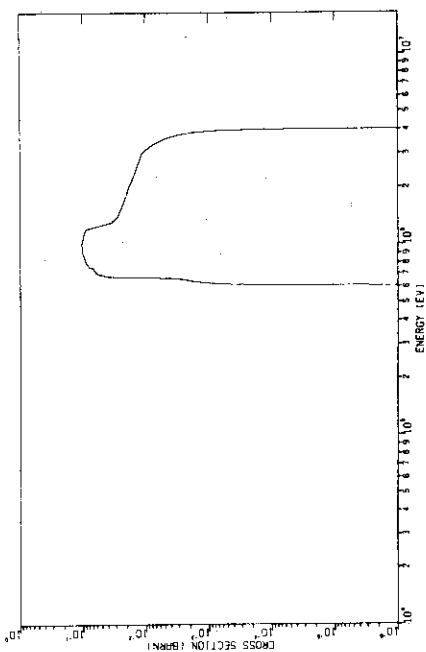
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 53

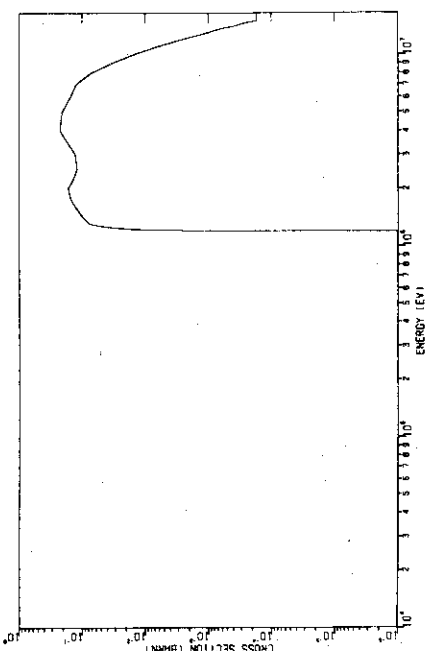
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 91

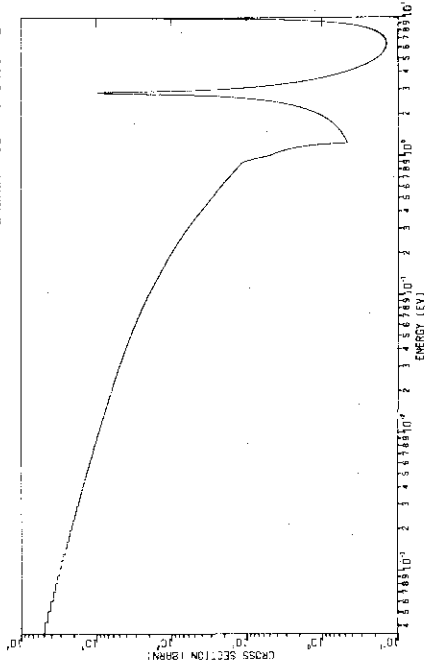
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

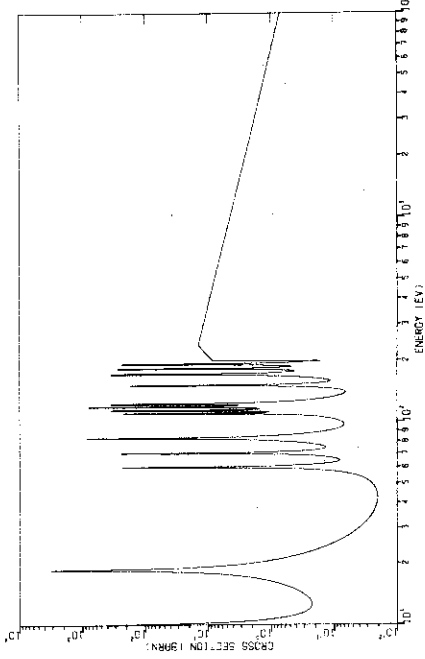
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

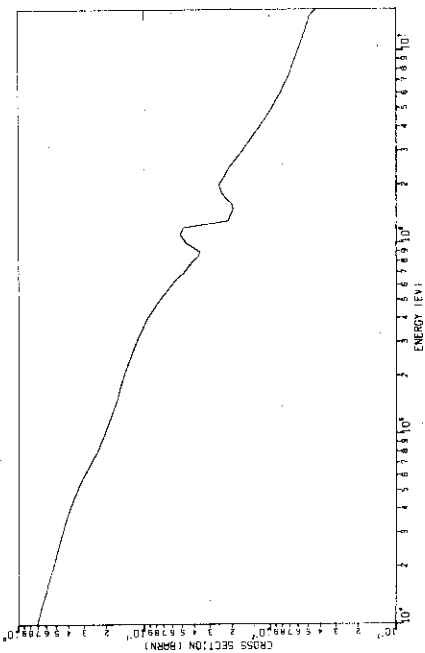
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



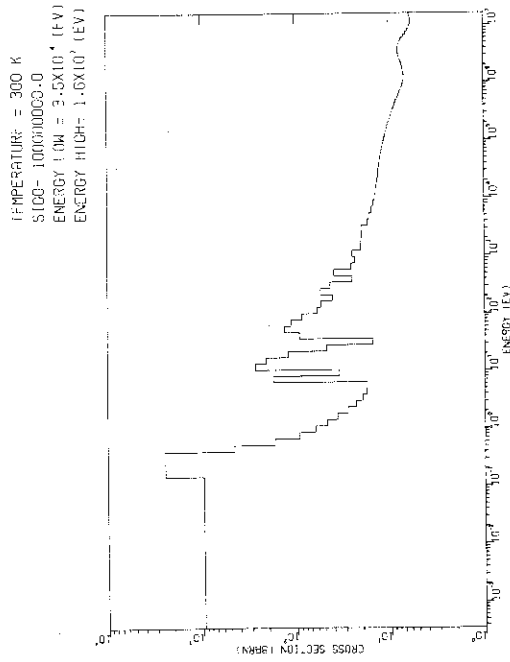
1050 PU-238 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

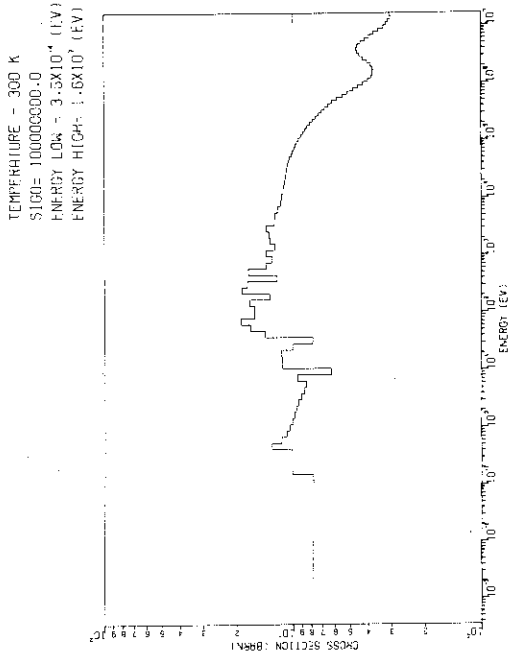
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



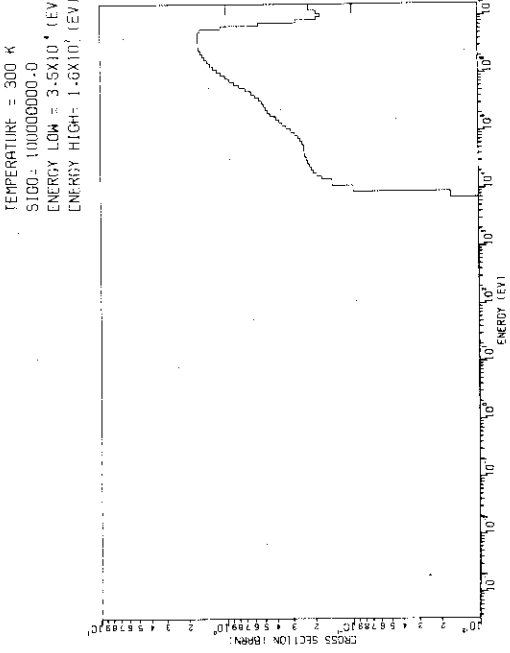
1264 PU-239 FROM ENDF/B-IV (300K) TOTAL



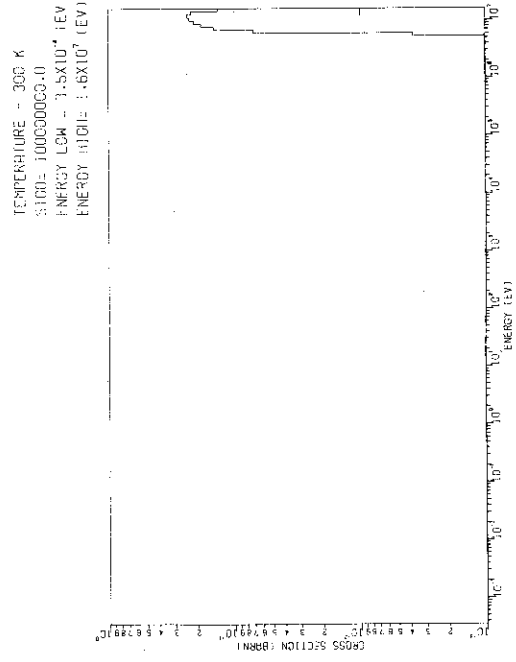
1264 PU-239 FROM ENDF/B-IV (300K) ELRG



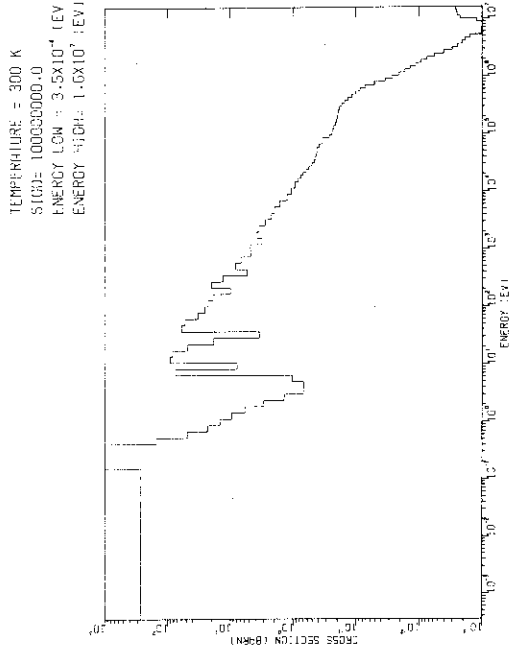
1264 PU-239 FROM ENDF/B-IV (300K) INEJRS



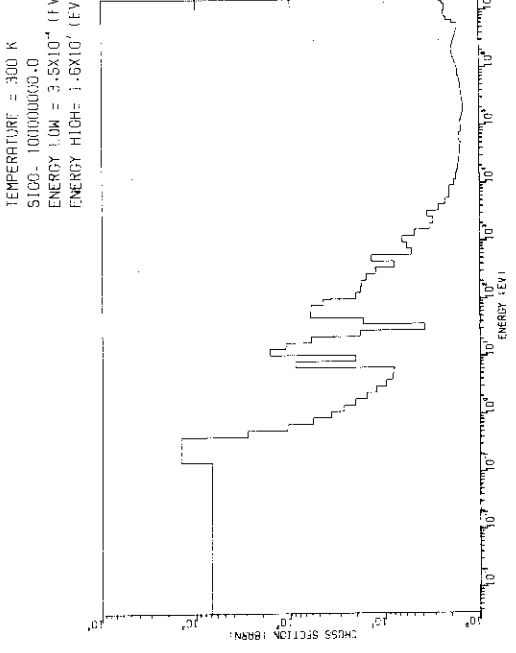
1264 PU-239 FROM ENDF/B-IV (300K) (N,2N)



1264 PU-239 FROM ENDF/B-IV (300K) (N,G)



1264 PU-239 FROM ENDF/B-IV (300K) FISSION



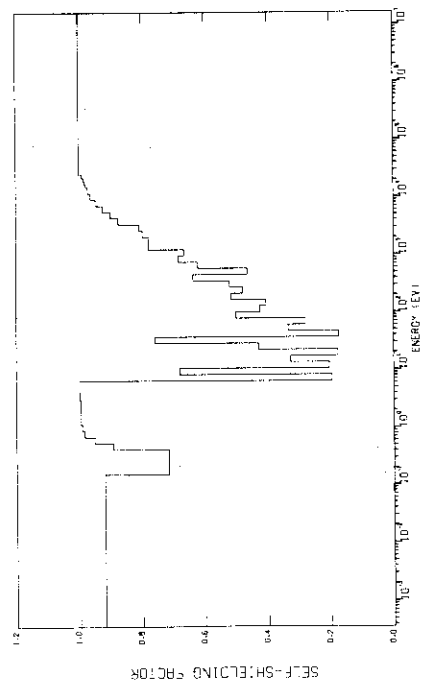
239  
94 Pu  
1264

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1264 PU-239 FROM ENDF/B-IV ( 300K )

TOTAL

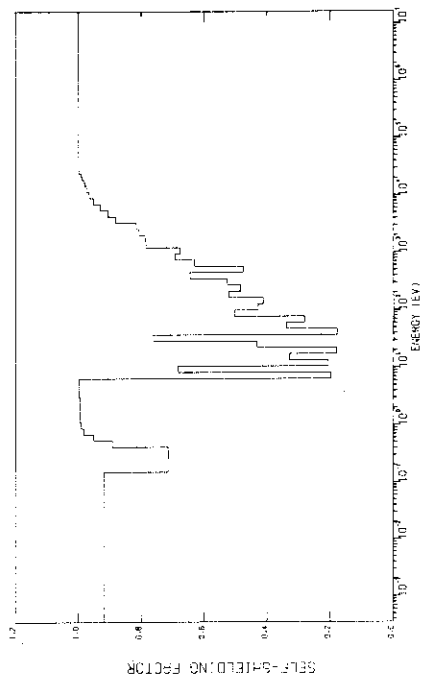
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

TOTAL

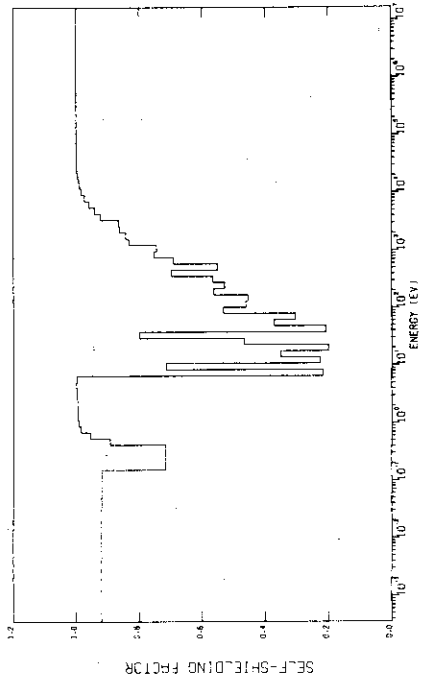
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

TOTAL

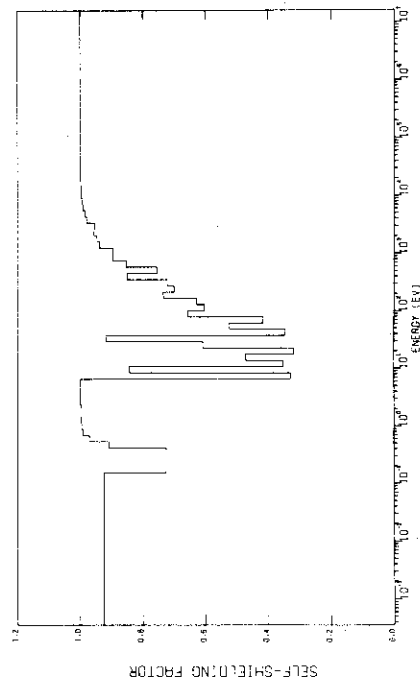
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

TOTAL

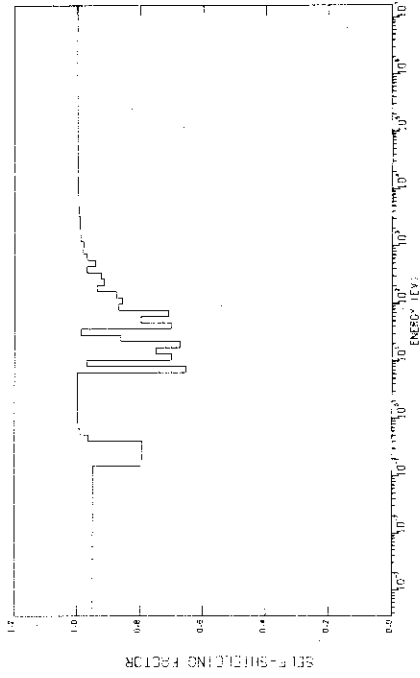
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

TOTAL

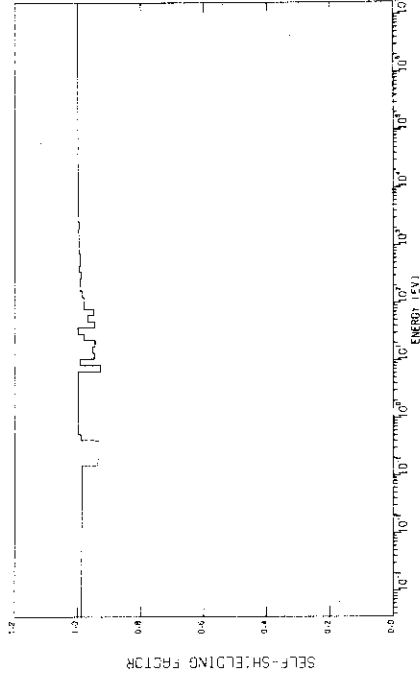
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

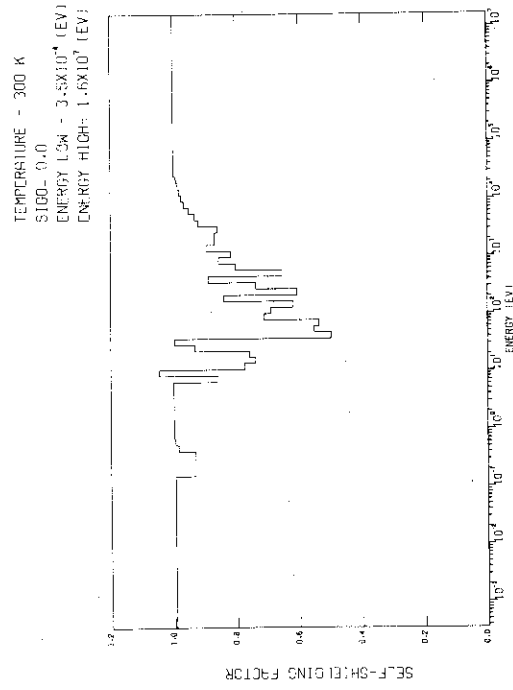
TOTAL

TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



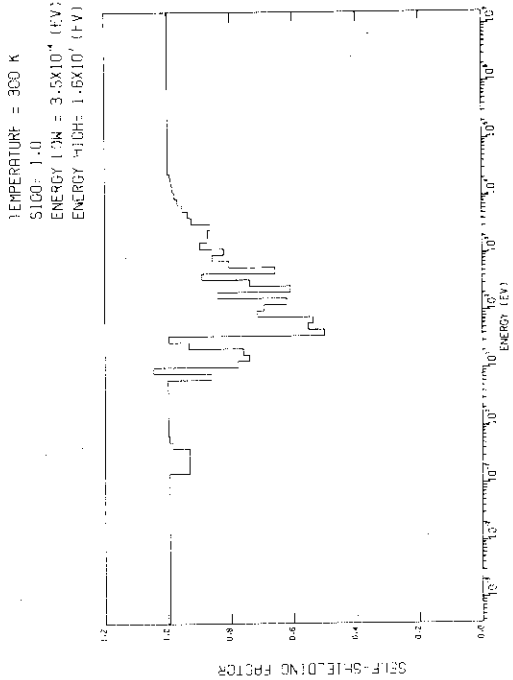
1264 PU-239 FROM ENDF/B-IV ( 300K )

FLHS



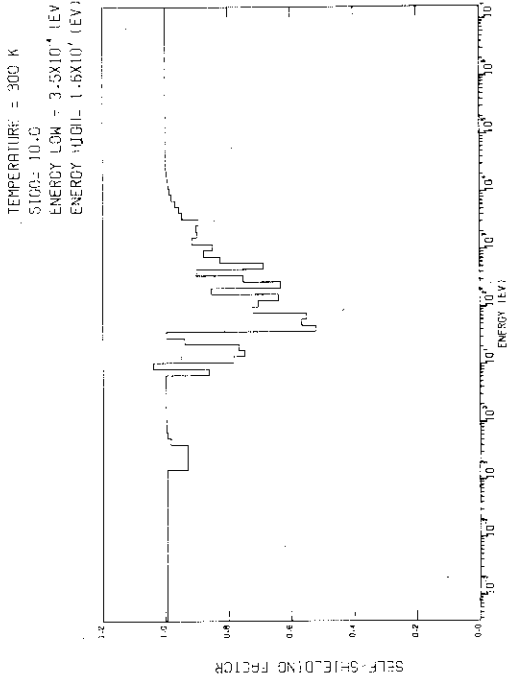
1264 PU-239 FROM ENDF/B-IV ( 300K )

HARS



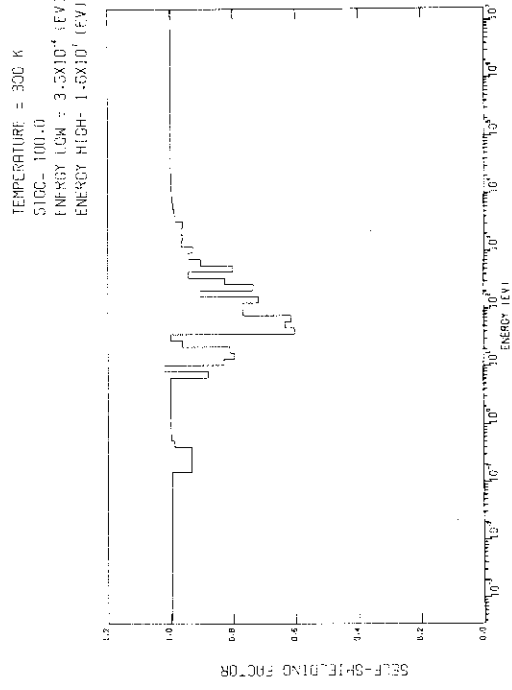
1264 PU-239 FROM ENDF/B-IV ( 300K )

ELHS



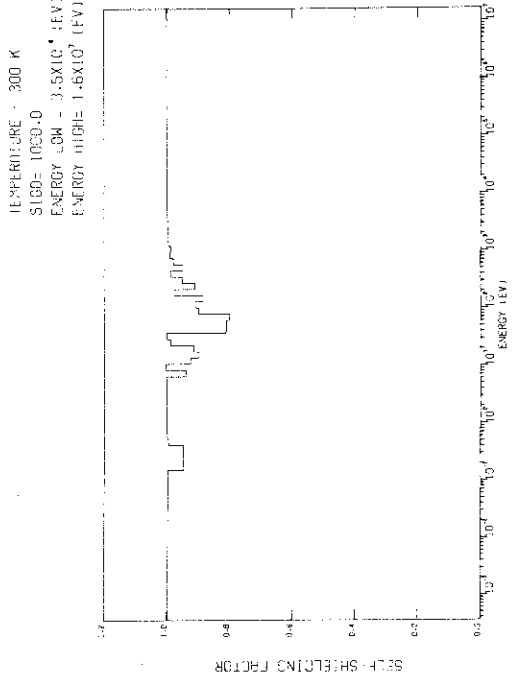
1264 PU-239 FROM ENDF/B-IV ( 300K )

ELHS



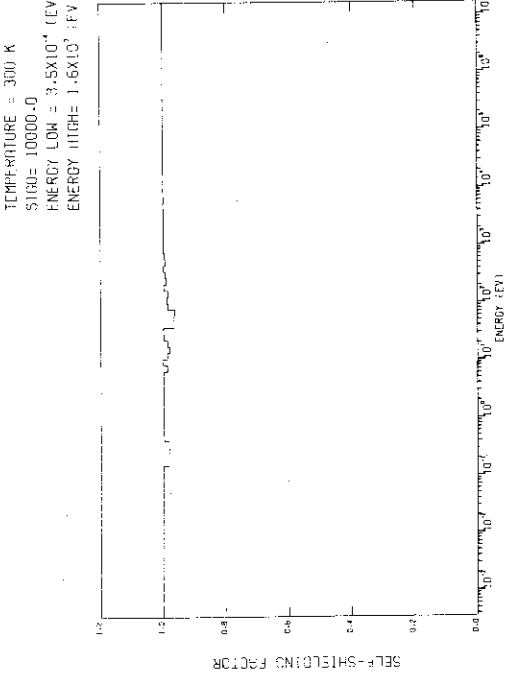
1264 PU-239 FROM ENDF/B-IV ( 300K )

ELAS



1264 PU-239 FROM ENDF/B-IV ( 300K )

ELAS



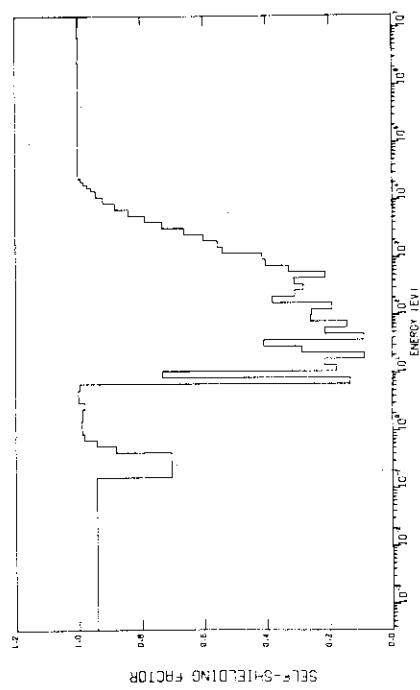
239  
94 Pu  
1264

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1264 PU-239 FROM ENDF/B-IV ( 300K )

CAPTURE

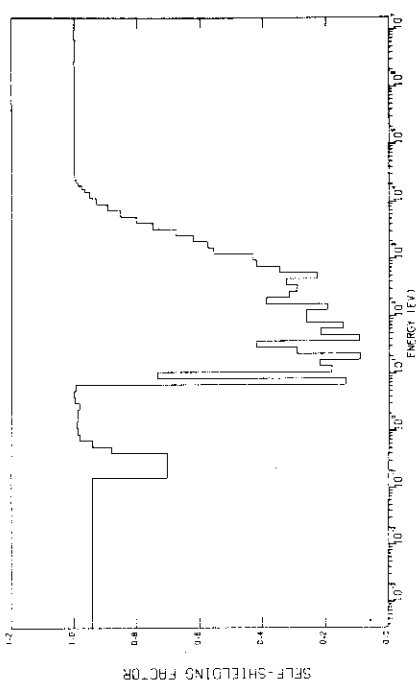
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

CAPTURE

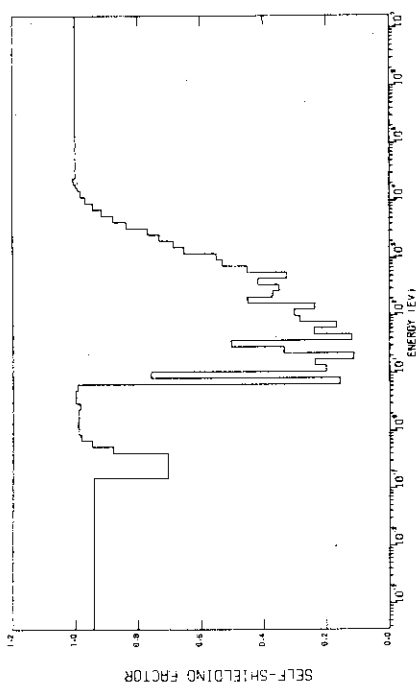
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

CAPTURE

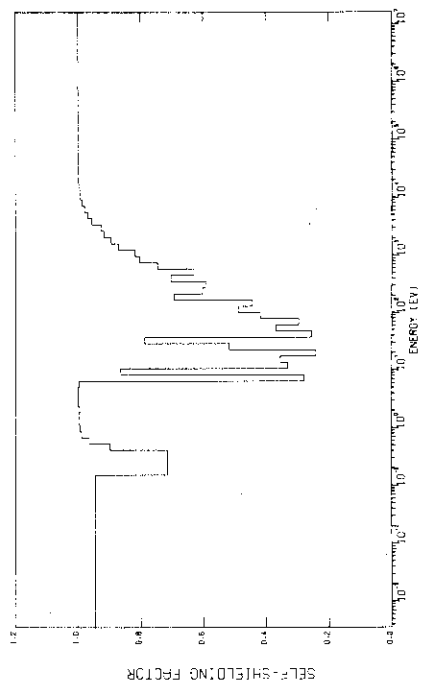
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

CAPTURE

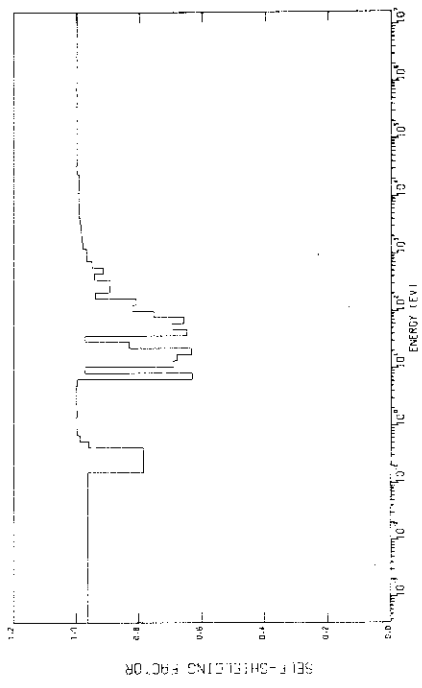
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

CAPTURE

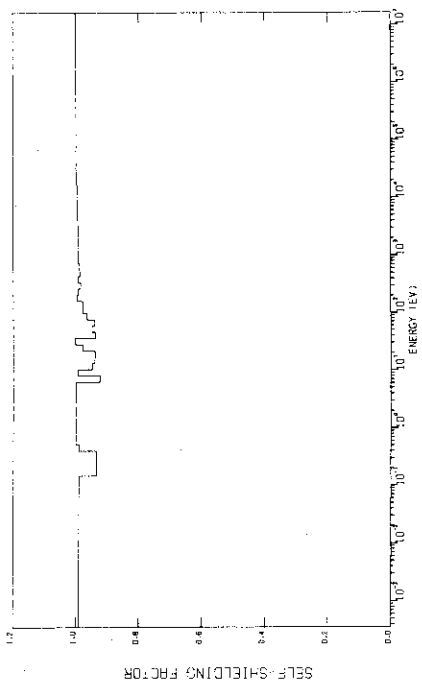
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

CAPTURE

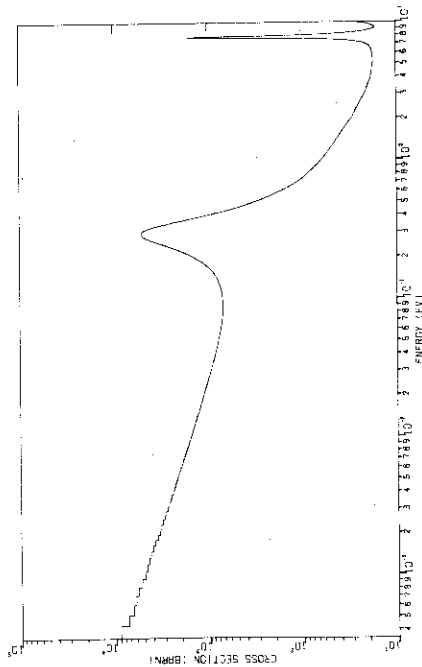
TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

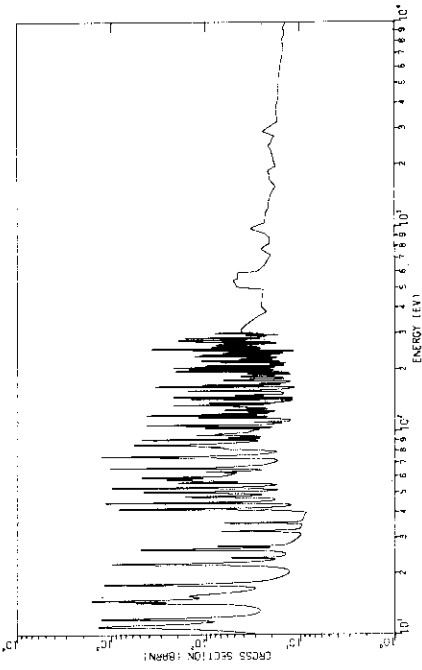
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

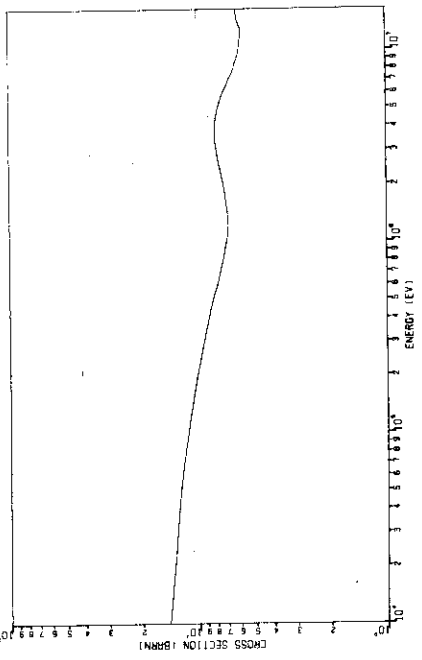
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

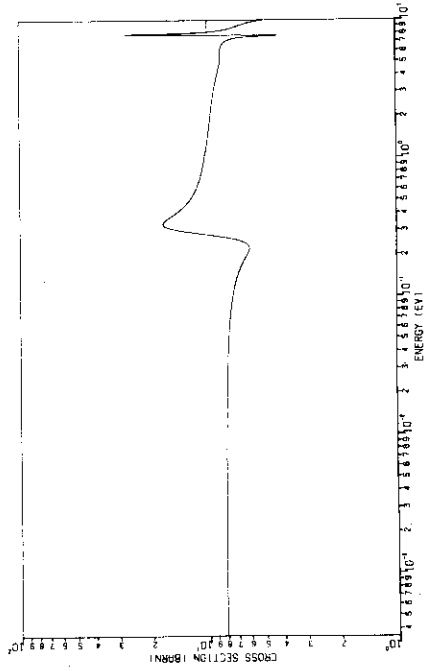
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

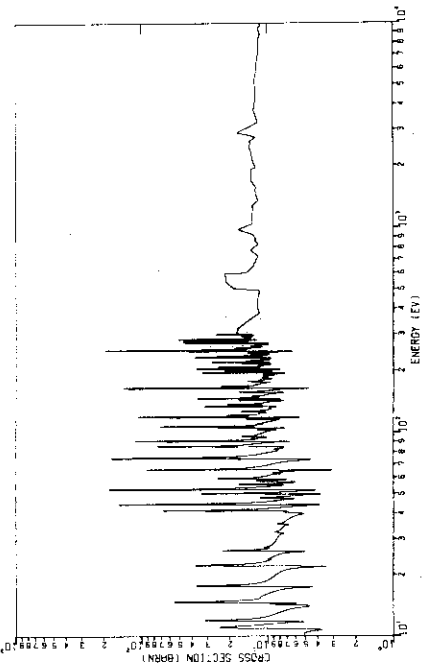
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

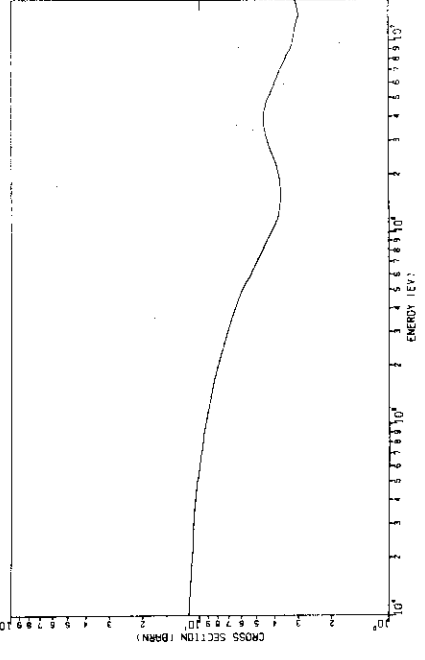
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

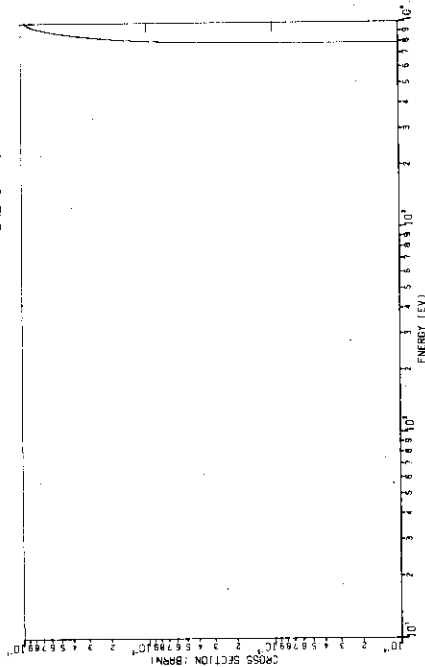
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1264 PU-239 FROM ENDF/B-V ( 300K )

REACTION TYPE = 4

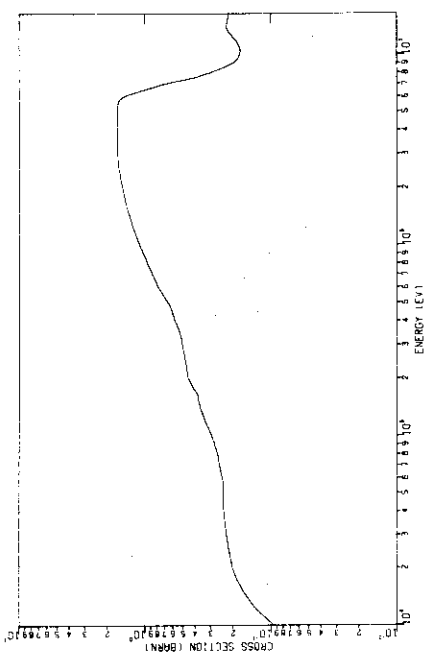
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 4

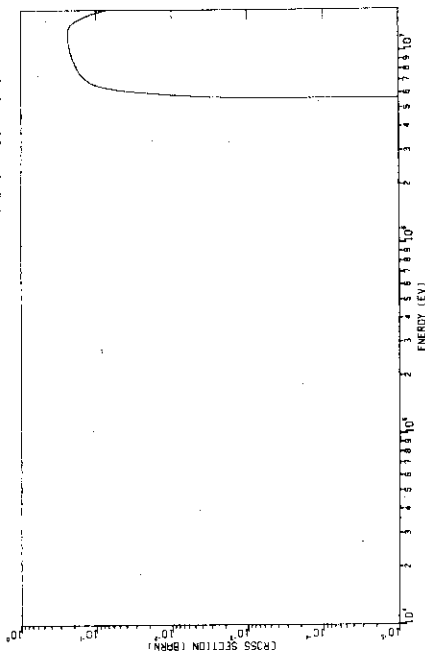
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 16

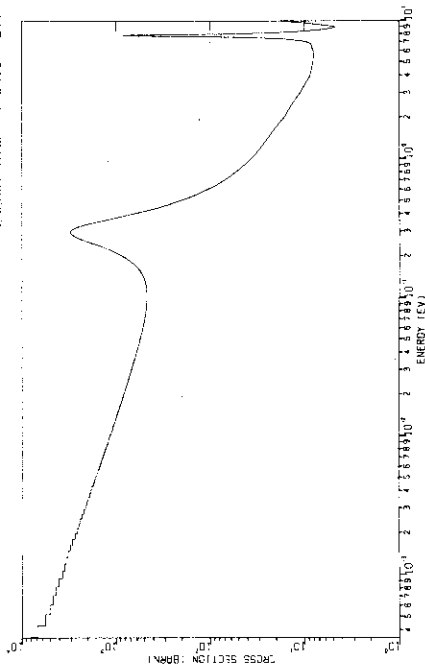
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

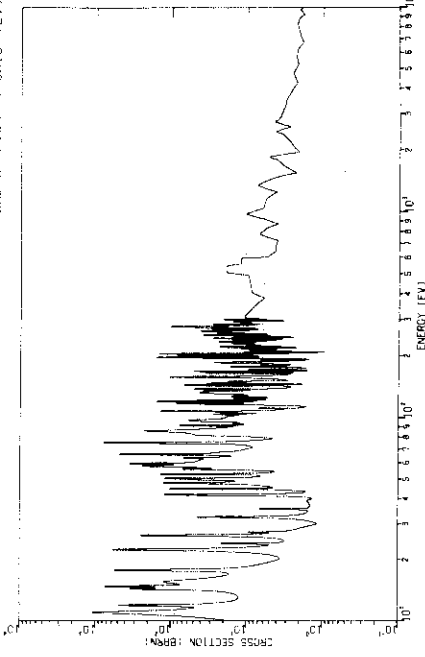
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 3.5X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

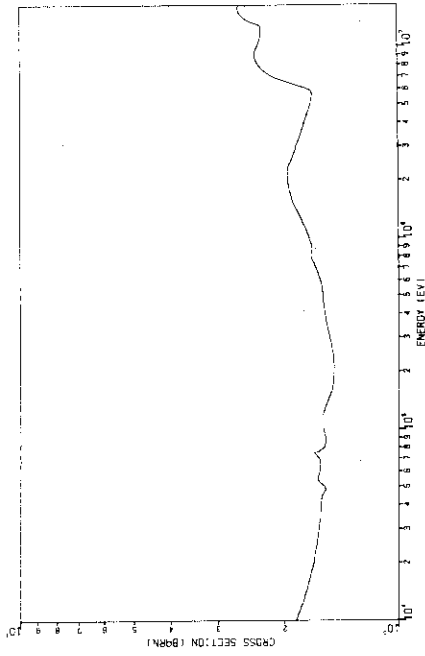
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

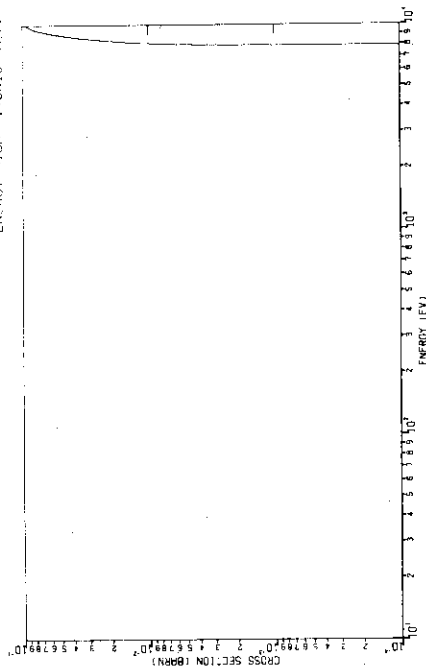
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = S1

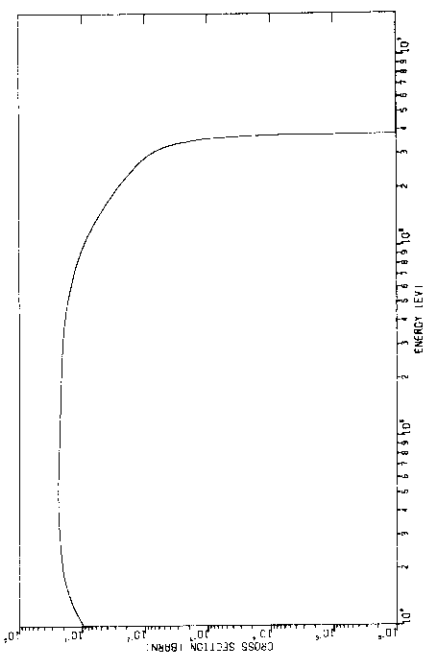
TEMPERATURE = 300 K  
SIGO = 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = S1

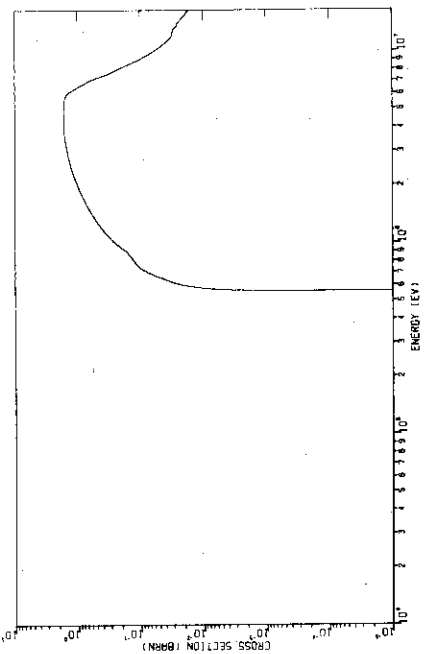
TEMPERATURE = 300 K  
SIGO = 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = S1

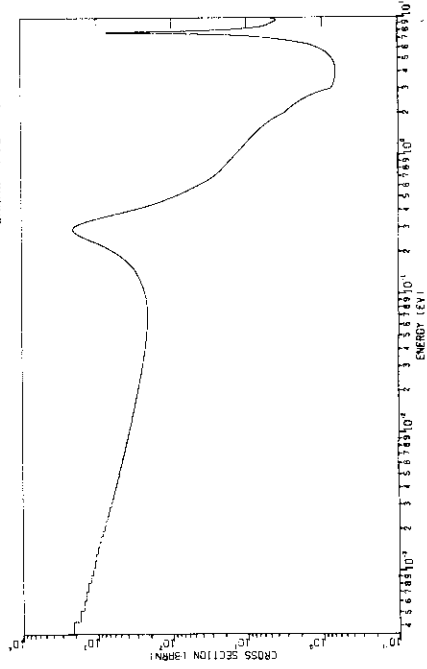
TEMPERATURE = 300 K  
SIGO = 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

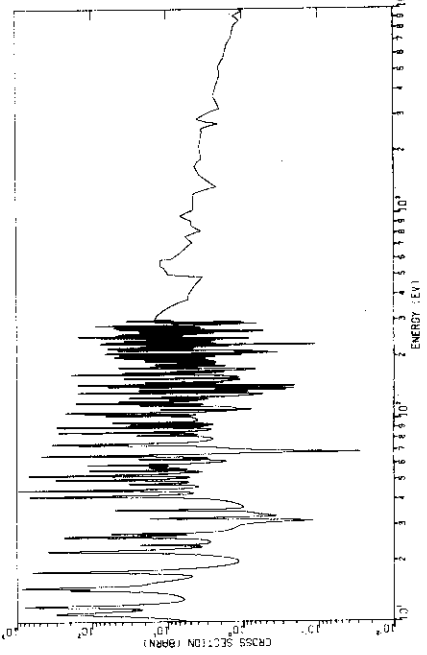
TEMPERATURE = 300 K  
SIGO = 100000000.0  
ENERGY LOW = 3.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

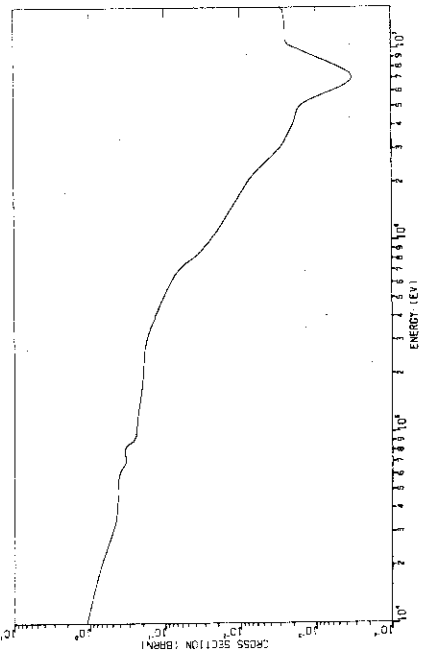
TEMPERATURE = 300 K  
SIGO = 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1264 PU-239 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIGO = 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

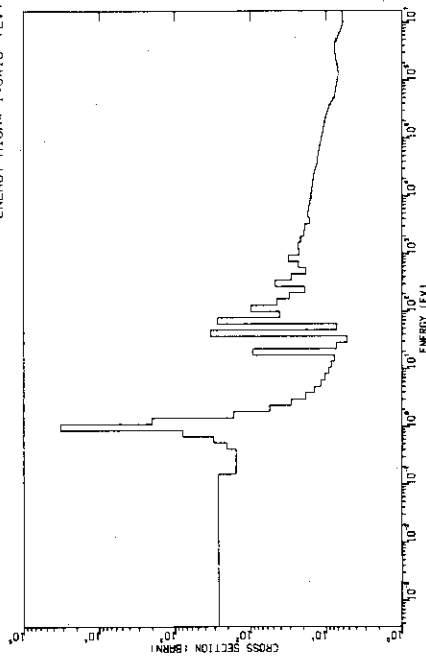




1265 PU-240 FROM ENDF/B-IV ( 300K )

TOTAL

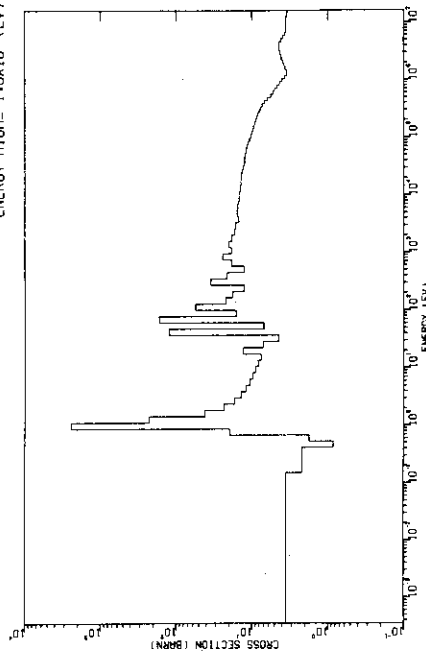
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

ELAS

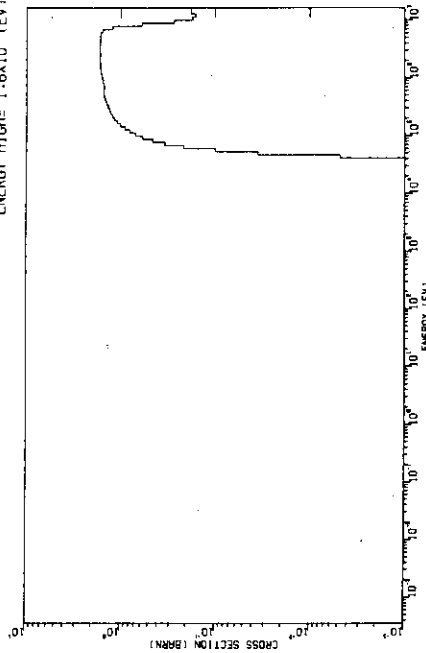
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

INELAS

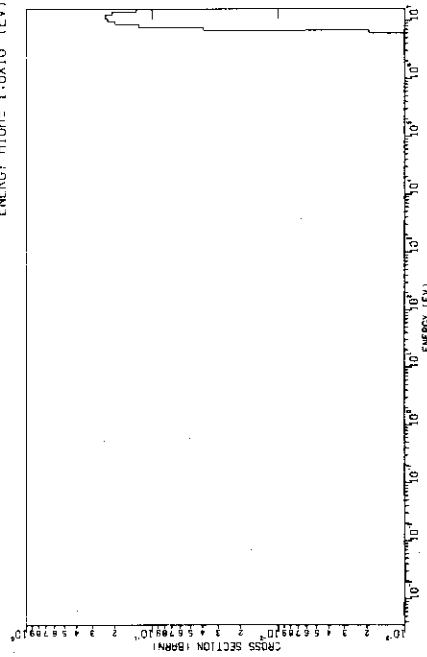
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

(N,2N)

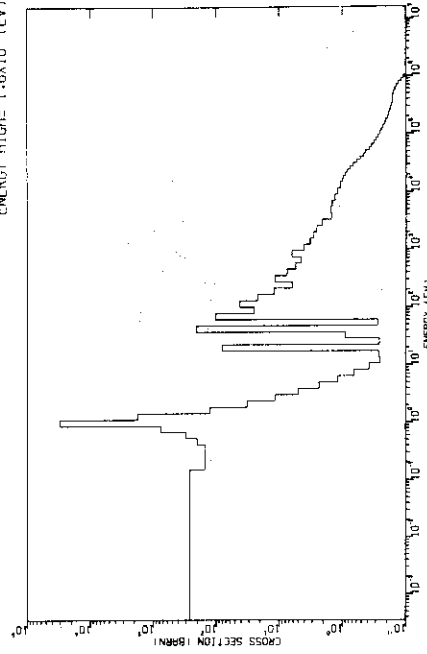
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

(N,G)

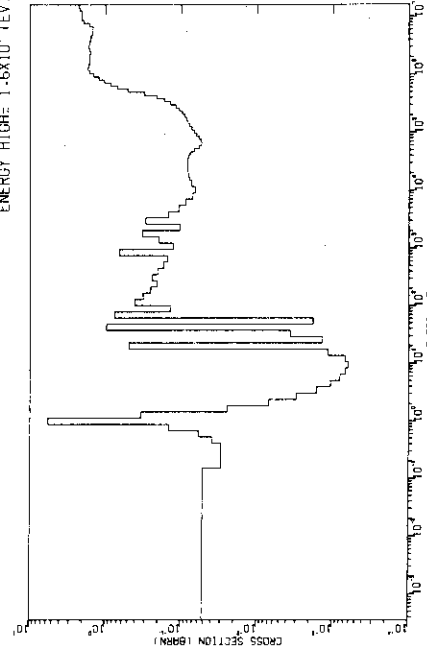
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

FISSION

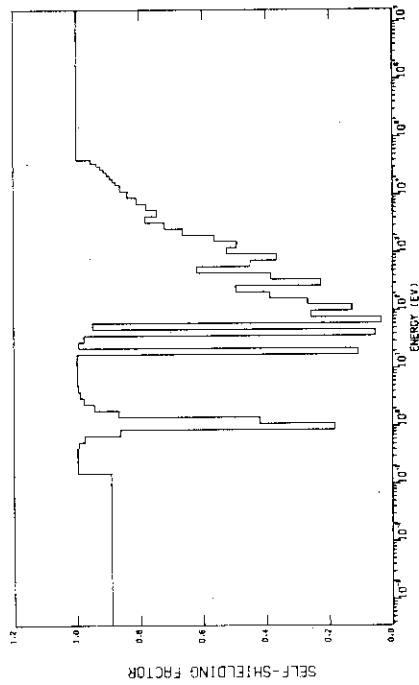
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

TOTAL

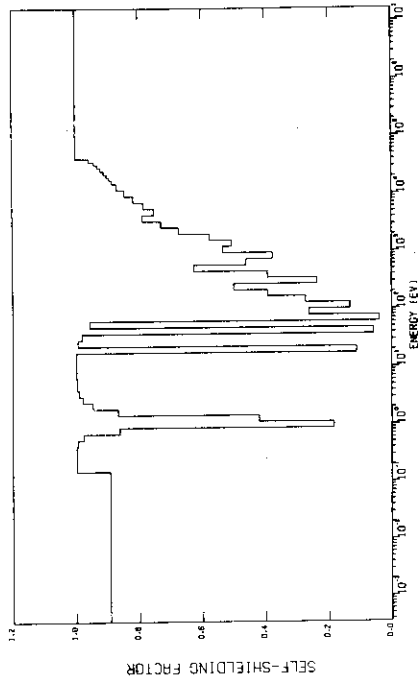
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

TOTAL

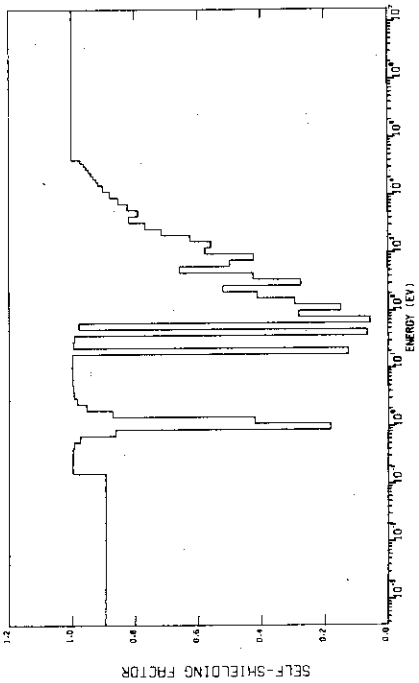
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

TOTAL

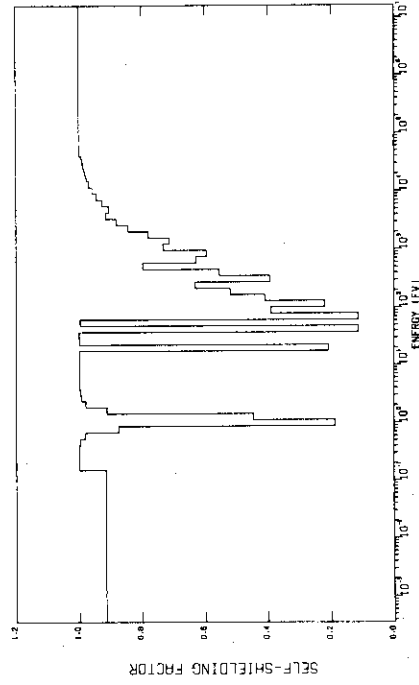
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

TOTAL

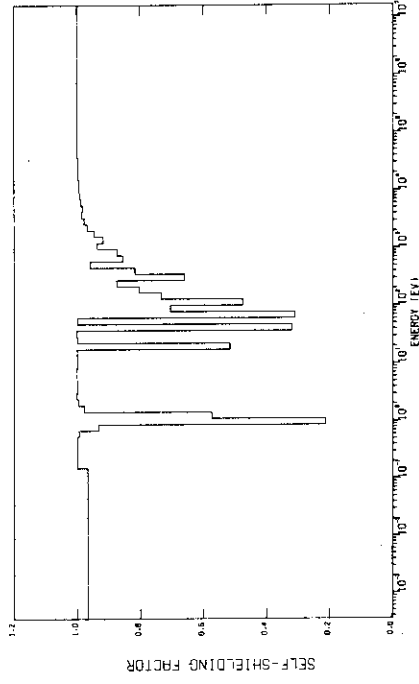
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

TOTAL

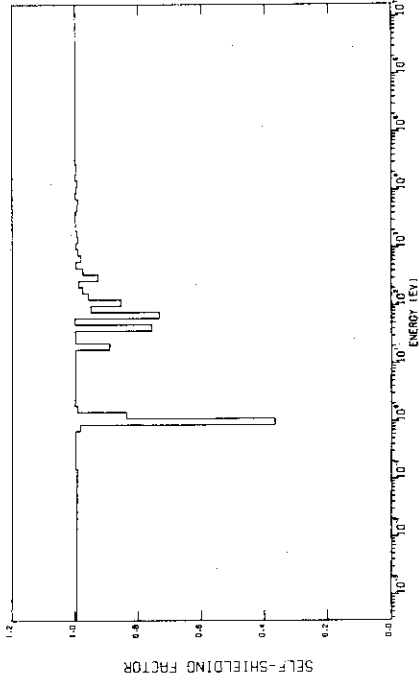
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

TOTAL

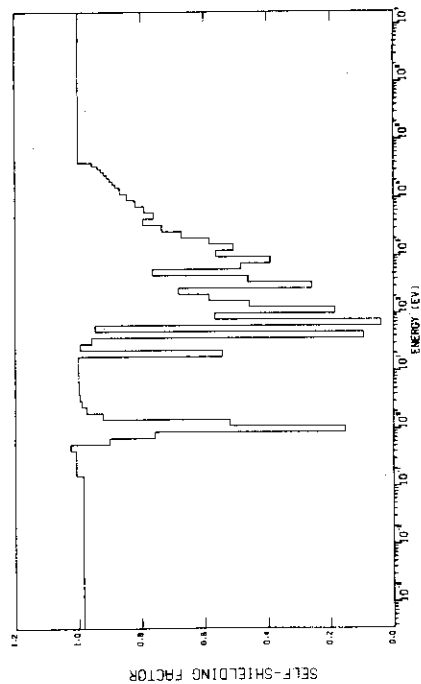
TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

ELAS

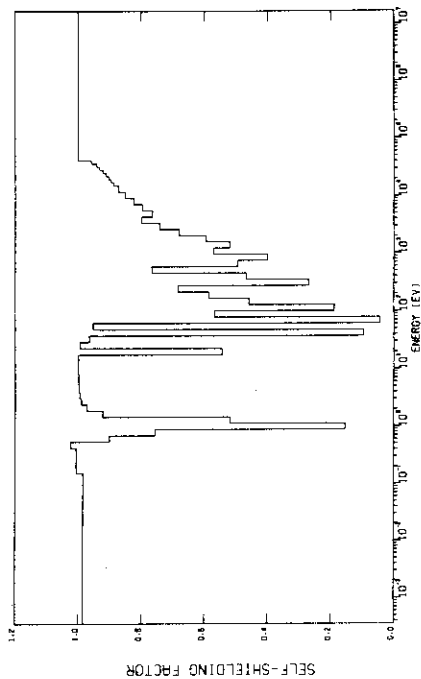
TEMPERATURE = 300 K  
SIG0= 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

ELAS

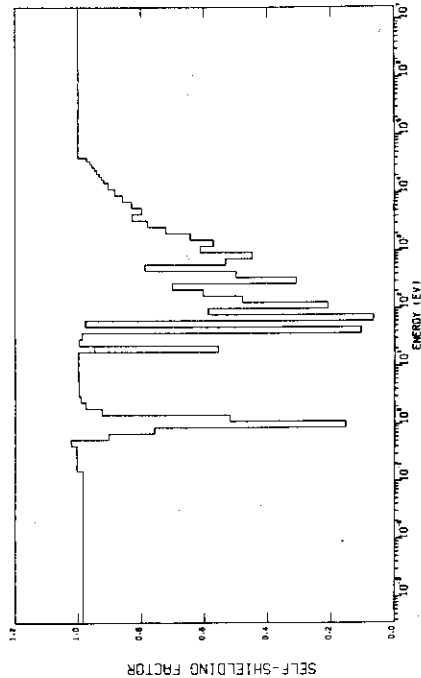
TEMPERATURE = 300 K  
SIG0= 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

ELAS

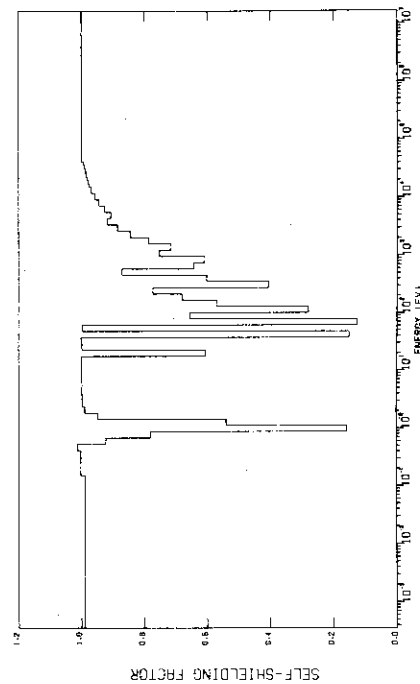
TEMPERATURE = 300 K  
SIG0= 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

ELAS

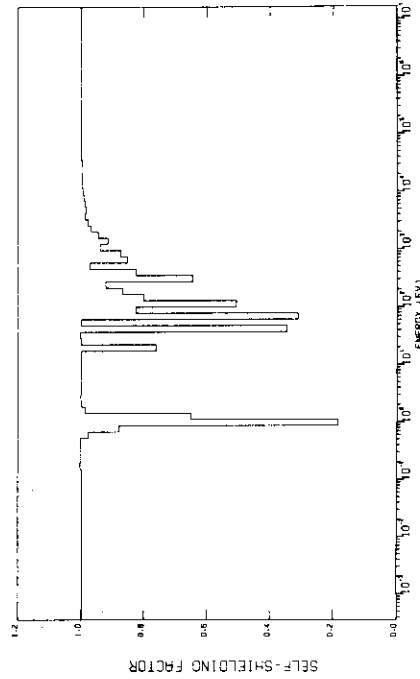
TEMPERATURE = 300 K  
SIG0= 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

ELAS

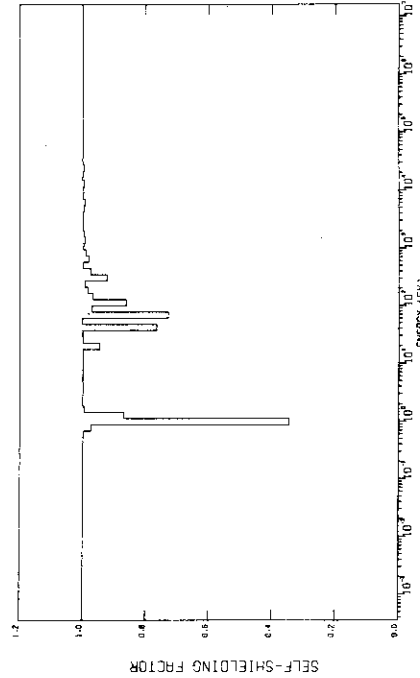
TEMPERATURE = 300 K  
SIG0= 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

ELAS

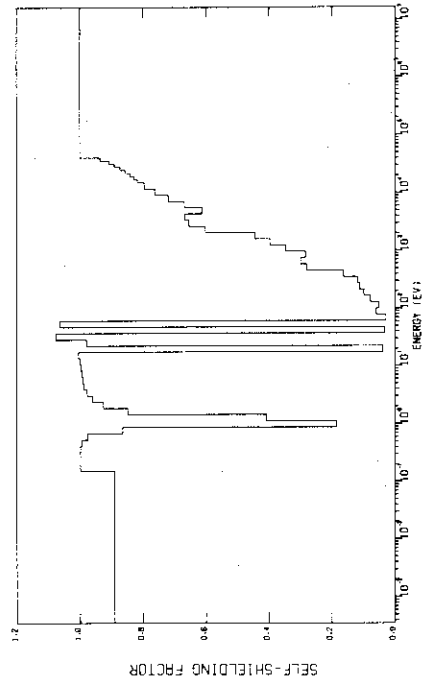
TEMPERATURE = 300 K  
SIG0= 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

CAPTURE

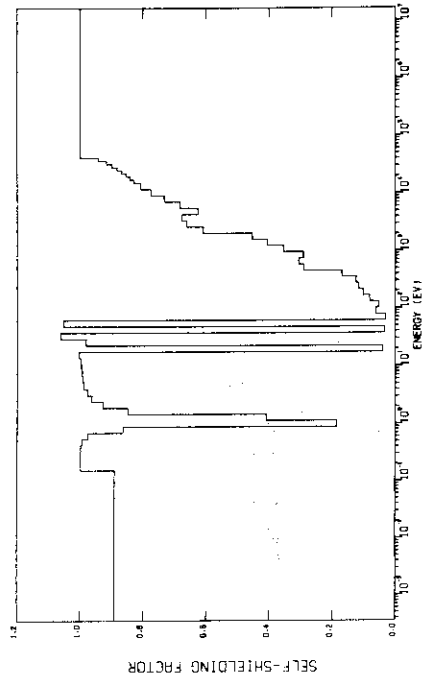
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

CAPTURE

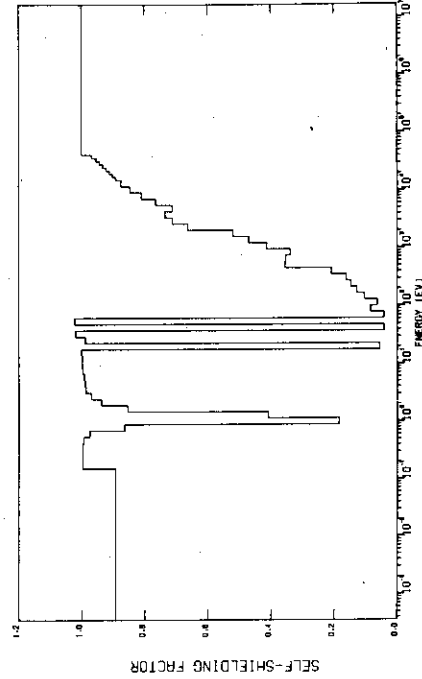
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

CAPTURE

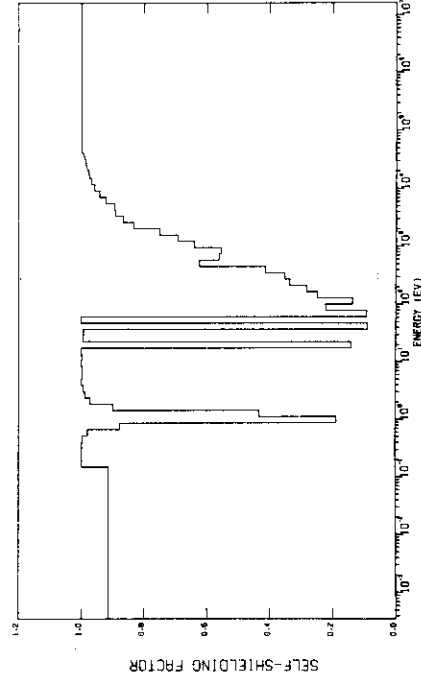
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

CAPTURE

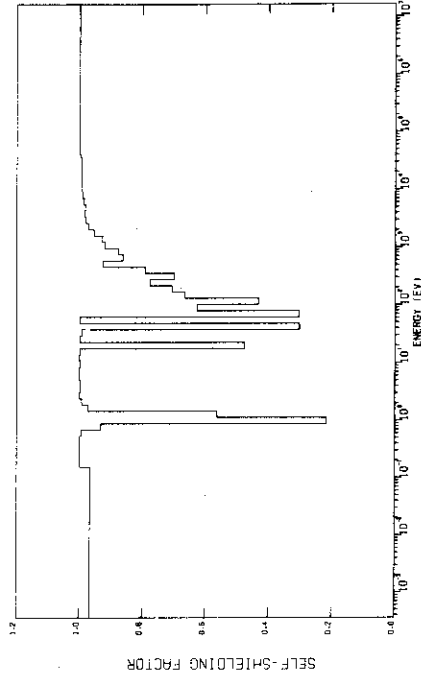
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

CAPTURE

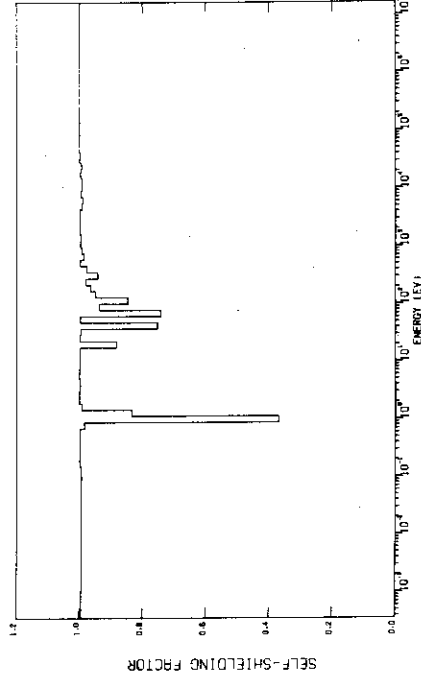
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

CAPTURE

TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

1265 PU-240 FROM ENDF/B-IV ( 300K )

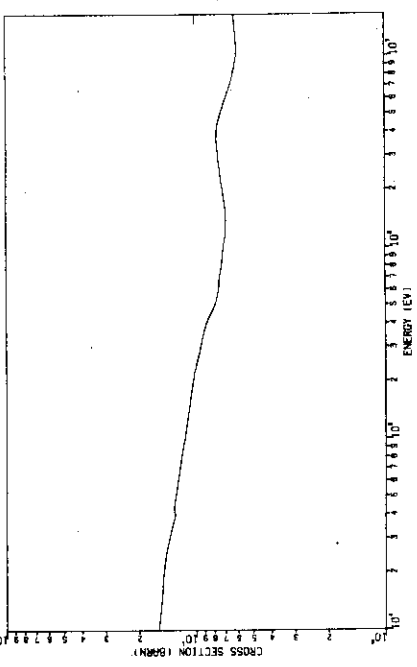
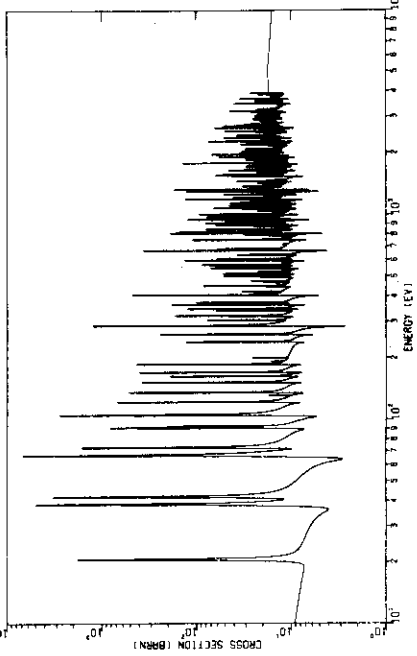
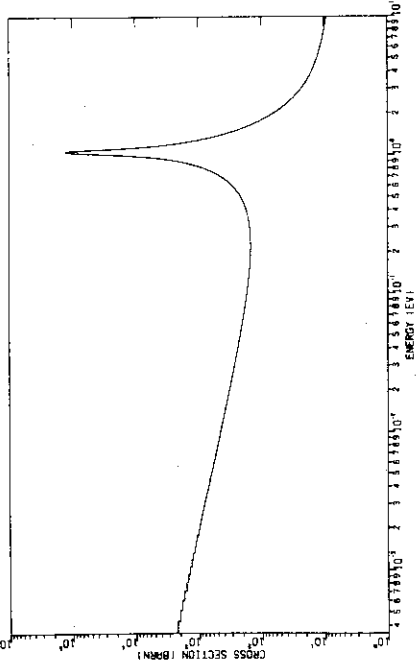
1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

1265 PU-240 FROM ENDF/B-IV ( 300K )

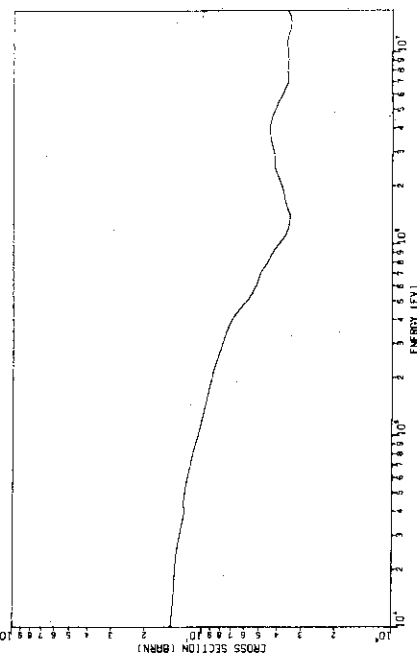
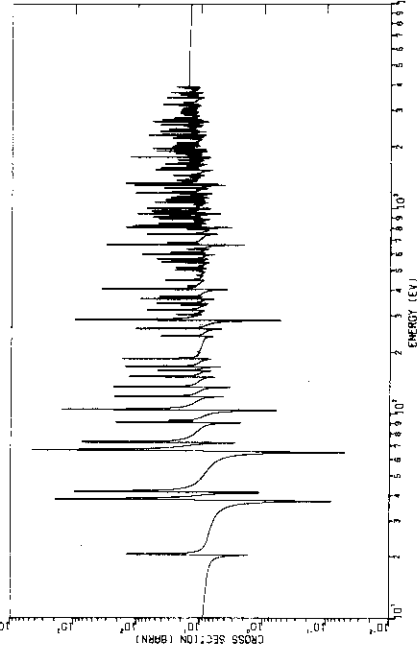
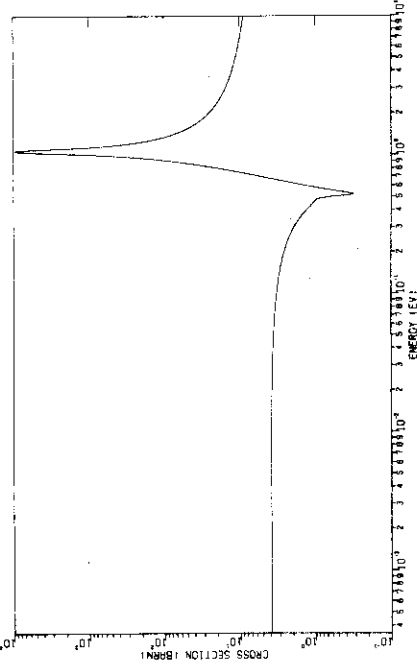
1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>1</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

1265 PU-240 FROM ENDF/B-IV ( 300K )

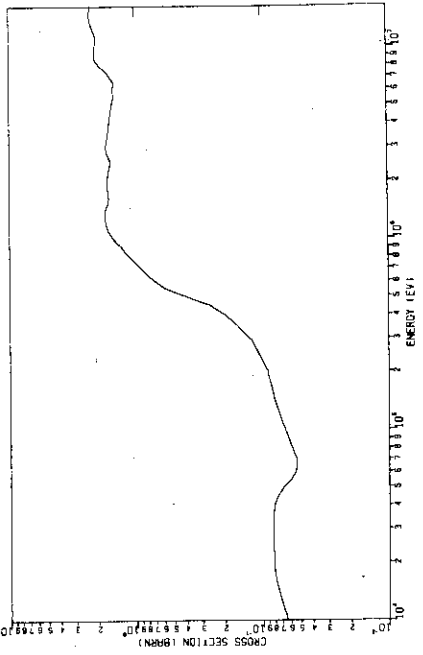
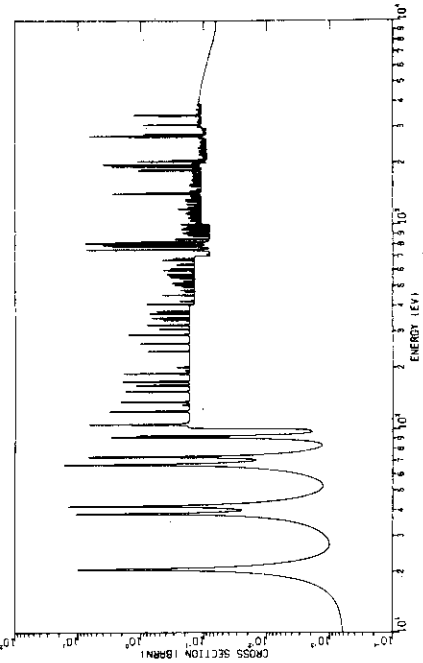
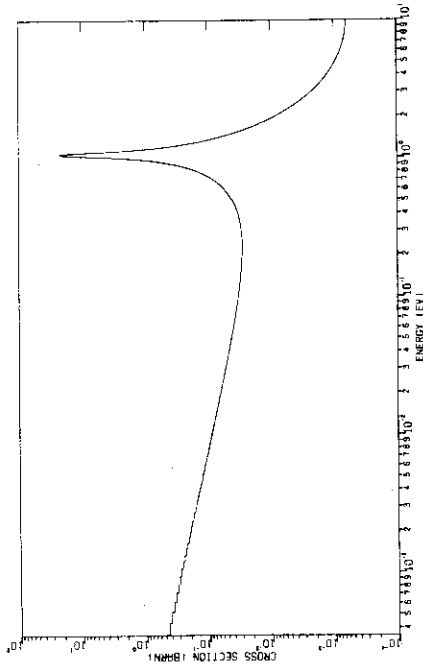
1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



REACTION TYPE = 18

REACTION TYPE = 18

REACTION TYPE = 18

1265 PU-240 FROM ENDF/B-IV ( 300K )

1265 PU-240 FROM ENDF/B-IV ( 300K )

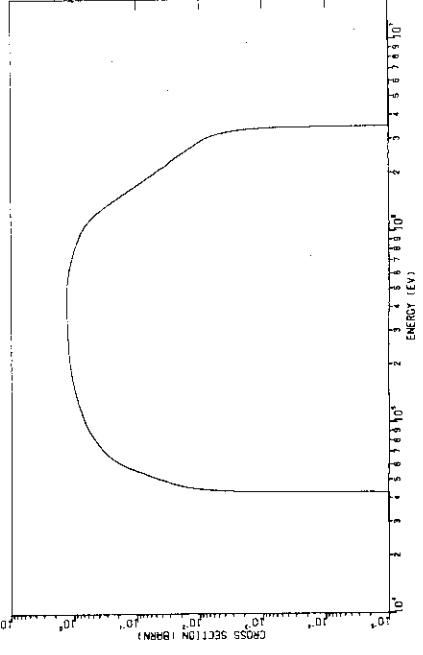
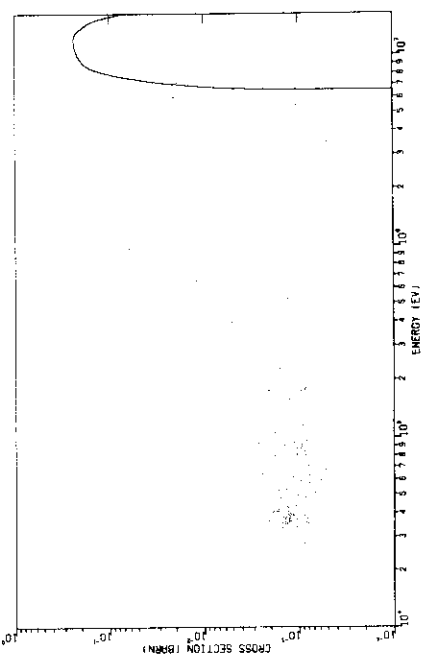
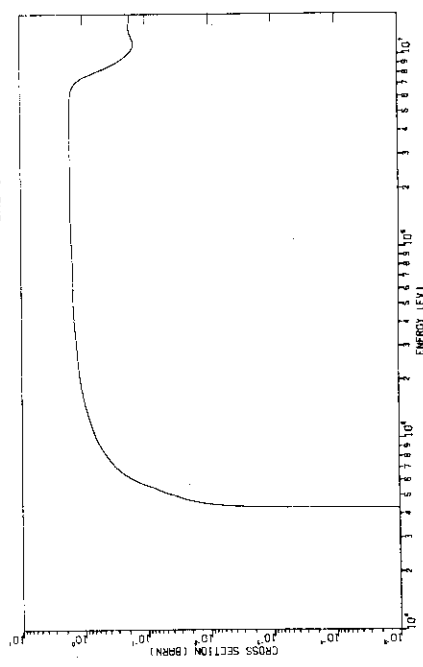
1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 51

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)

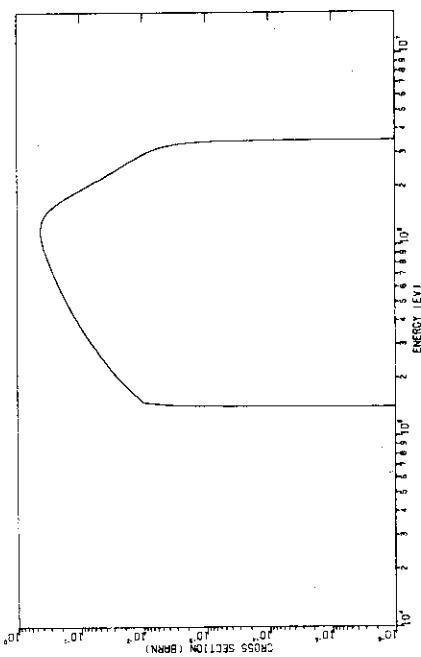
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 52

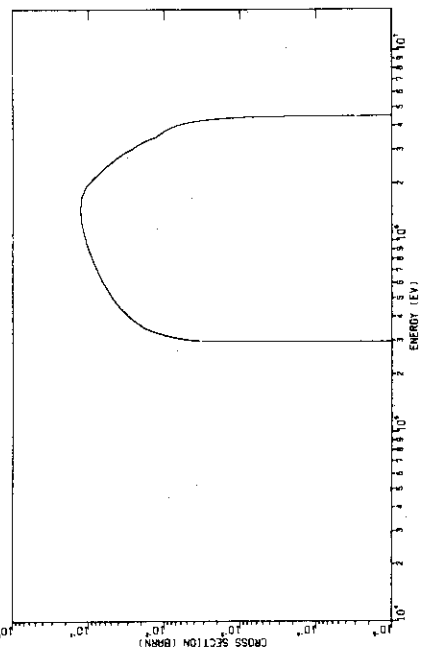
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 53

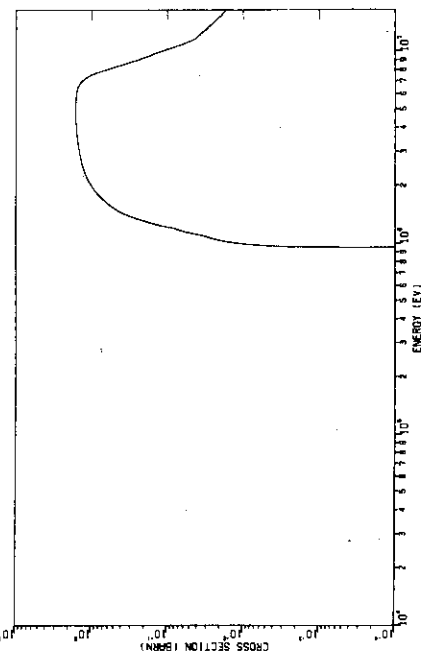
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 91

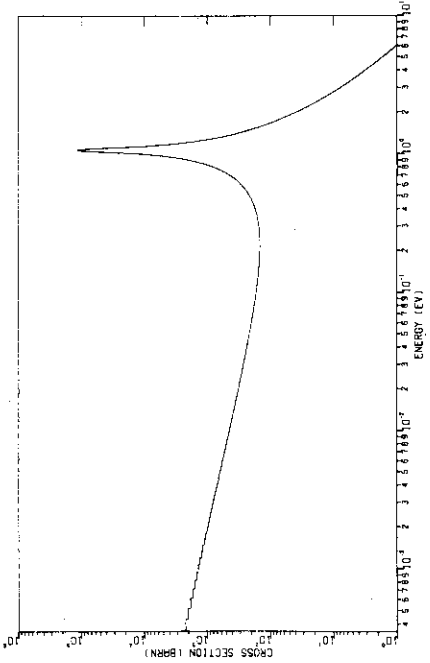
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

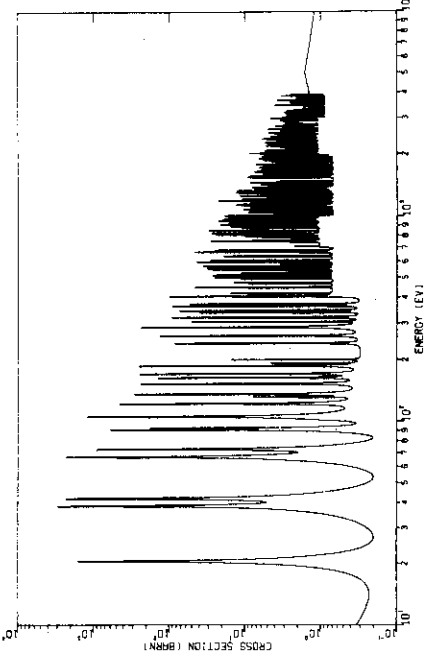
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 3.5X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

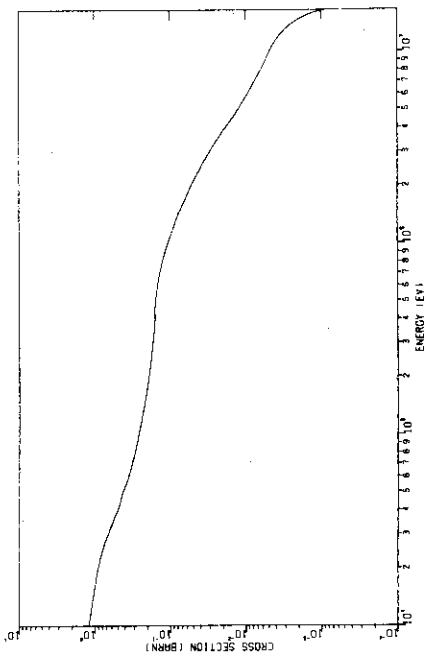
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>7</sup> (EV)



1265 PU-240 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

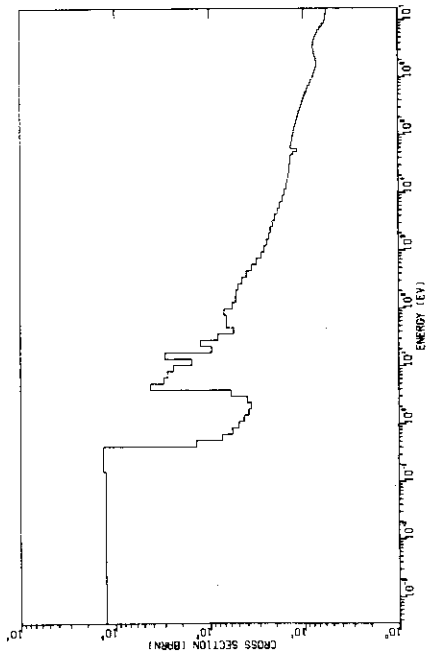
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

TOTAL

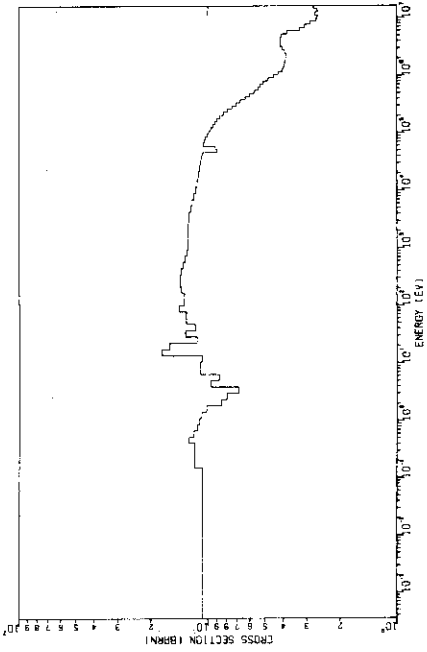
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

ELAS

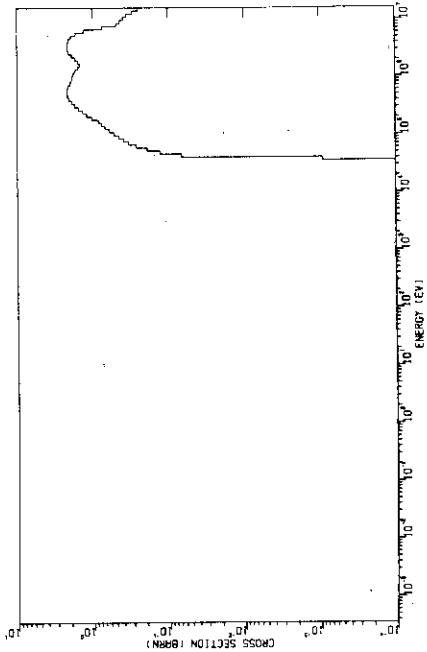
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

INELAS

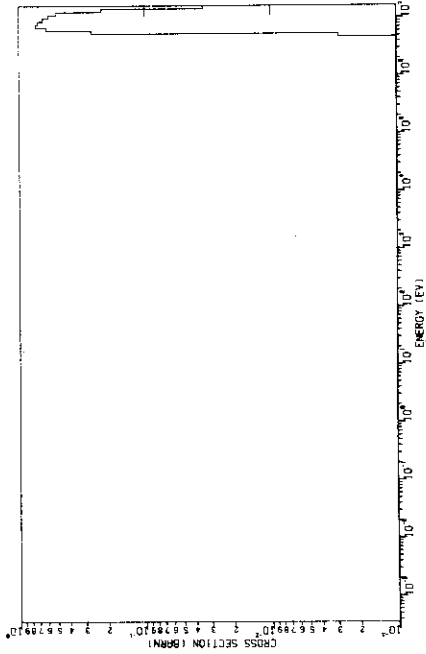
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

( N,2N )

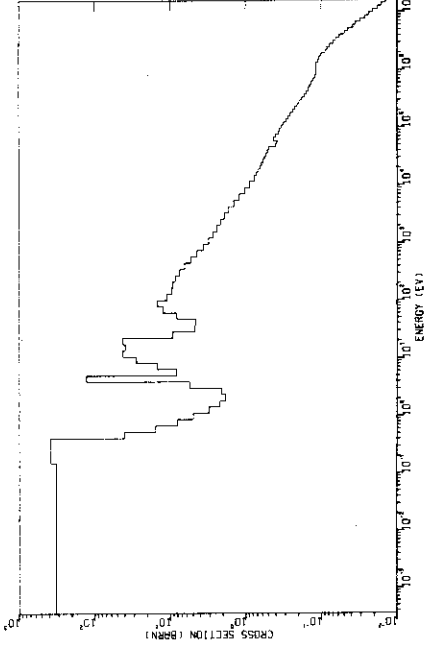
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

( N,G )

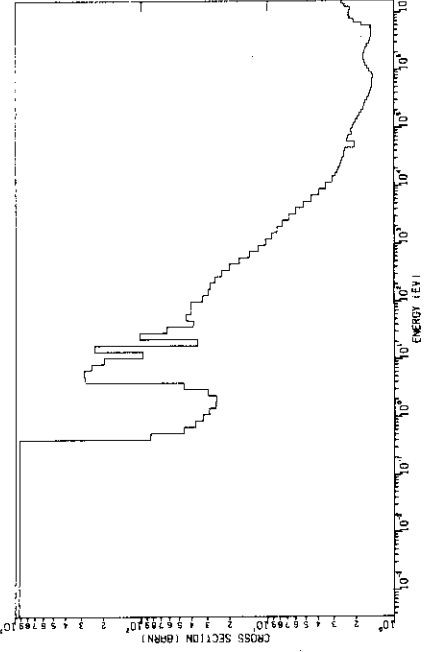
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

FISSION

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

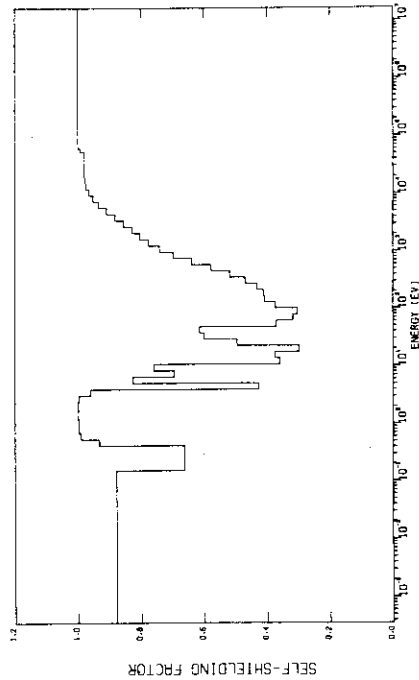




1266 PU-241 FROM ENDF/B-IV ( 300K )

TOTAL

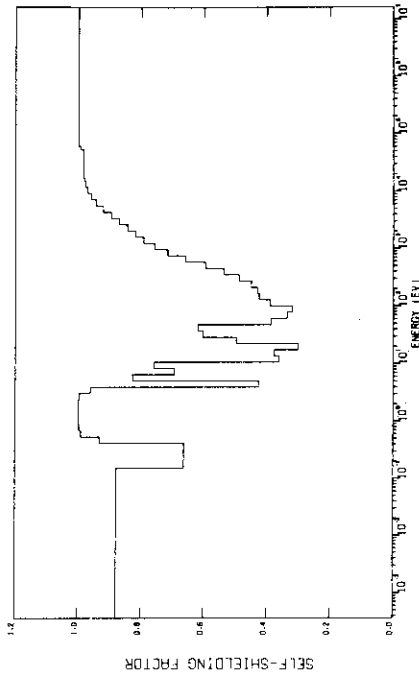
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

TOTAL

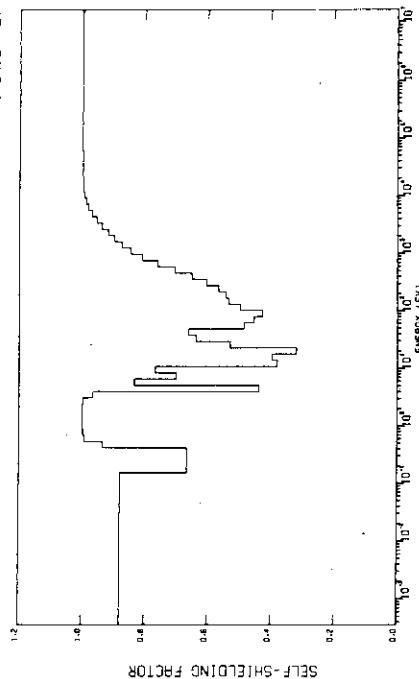
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

TOTAL

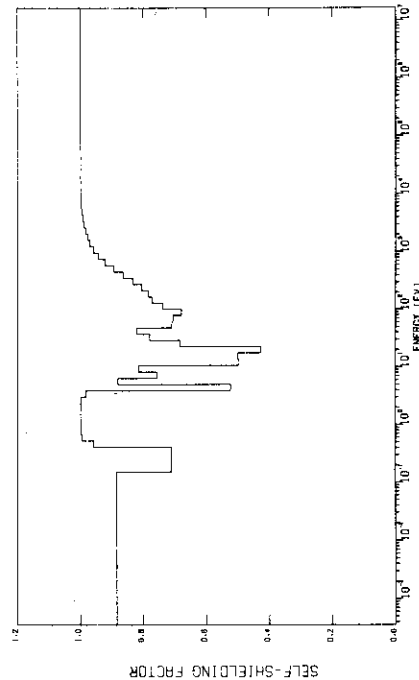
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

TOTAL

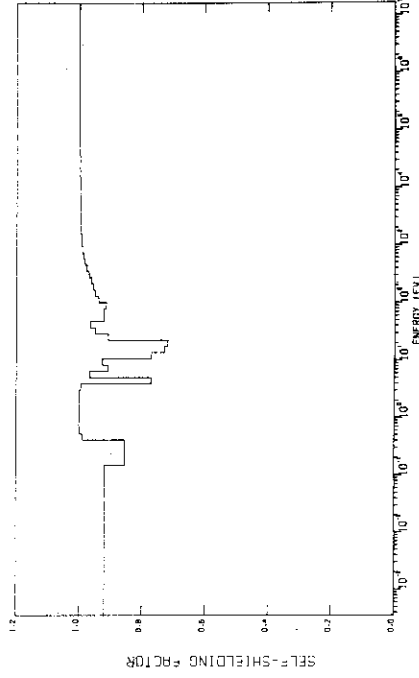
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

TOTAL

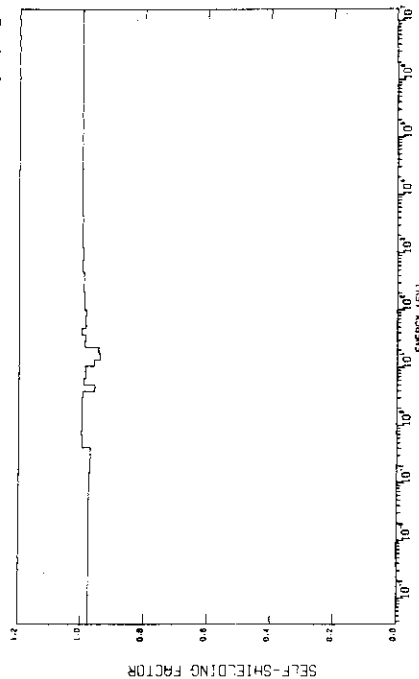
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

TOTAL

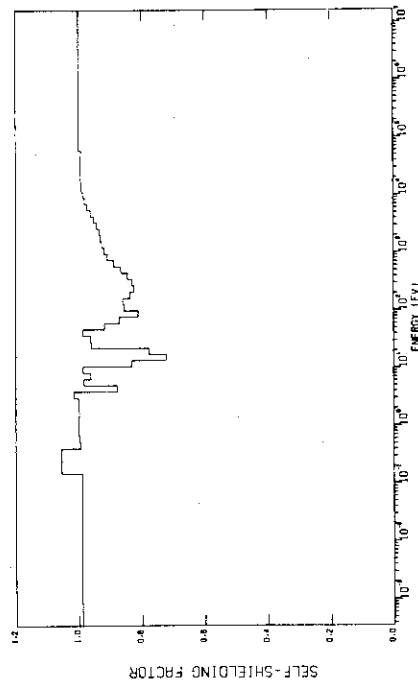
TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

ELAS

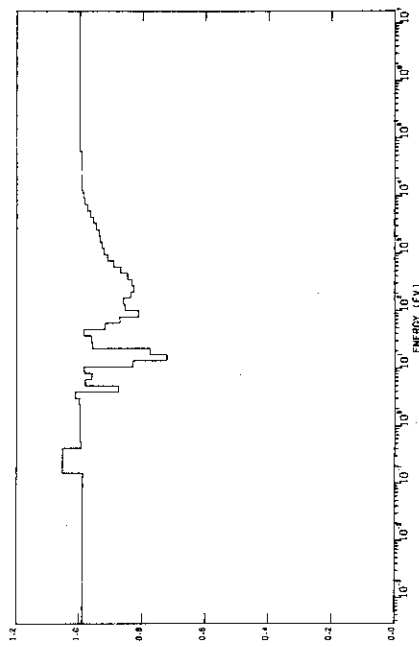
TEMPERATURE = 300 K  
SIGO= 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

ELAS

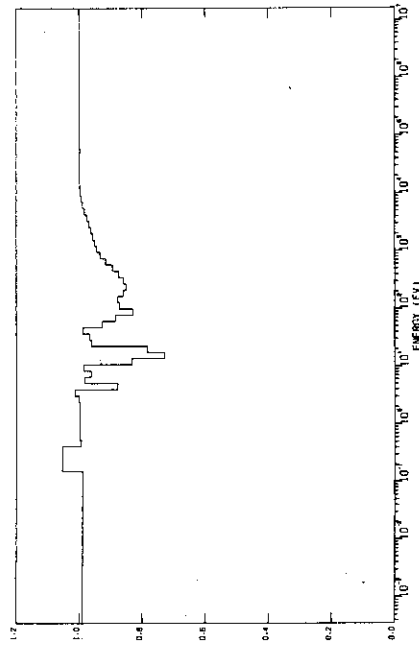
TEMPERATURE = 300 K  
SIGO= 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

ELAS

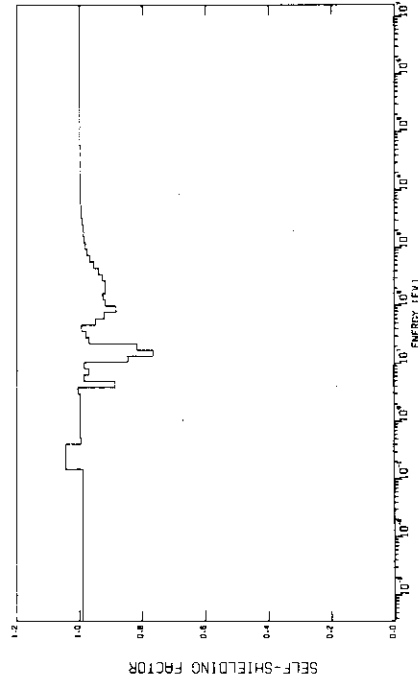
TEMPERATURE = 300 K  
SIGO= 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

ELAS

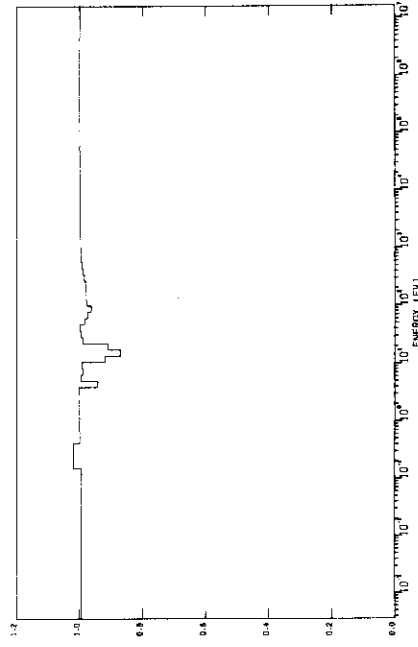
TEMPERATURE = 300 K  
SIGO= 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

ELAS

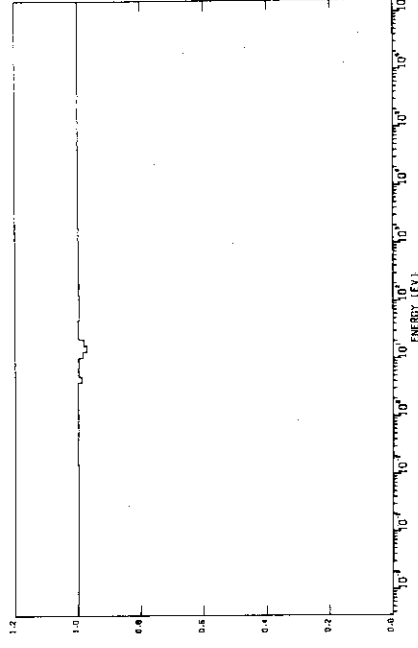
TEMPERATURE = 300 K  
SIGO= 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

ELAS

TEMPERATURE = 300 K  
SIGO= 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



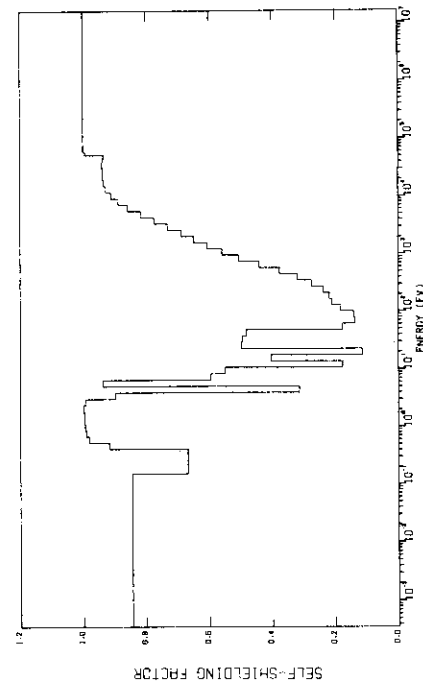
**241 Pu**  
**94**  
**1266**

JAERI M 84-053

1266 PU-241 FROM ENDF/B-IV ( 300K )

CAPTURE

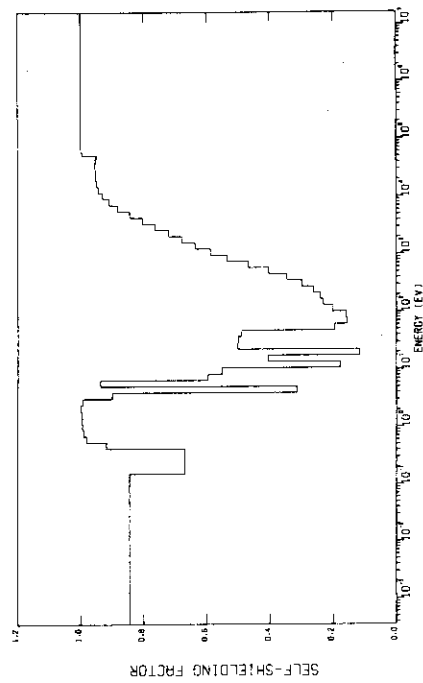
TEMPERATURE = 300 K  
SIG0= 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

CAPTURE

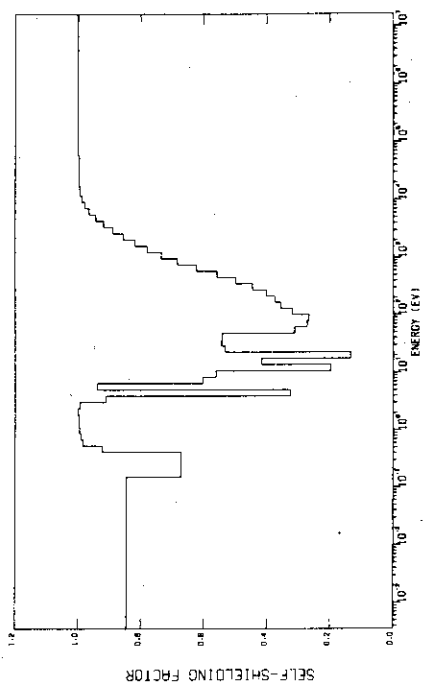
TEMPERATURE = 300 K  
SIG0= 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

CAPTURE

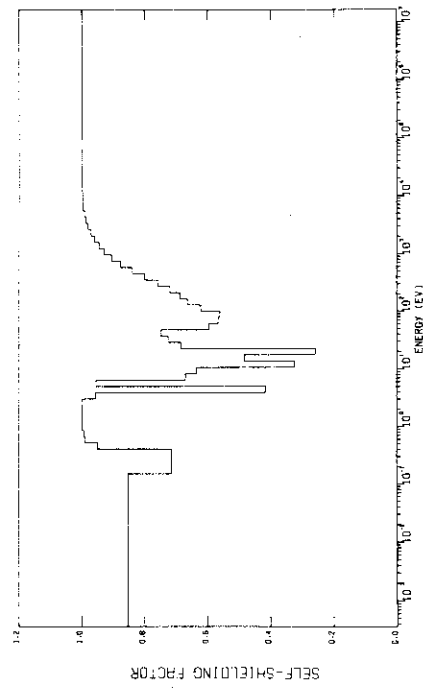
TEMPERATURE = 300 K  
SIG0= 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

CAPTURE

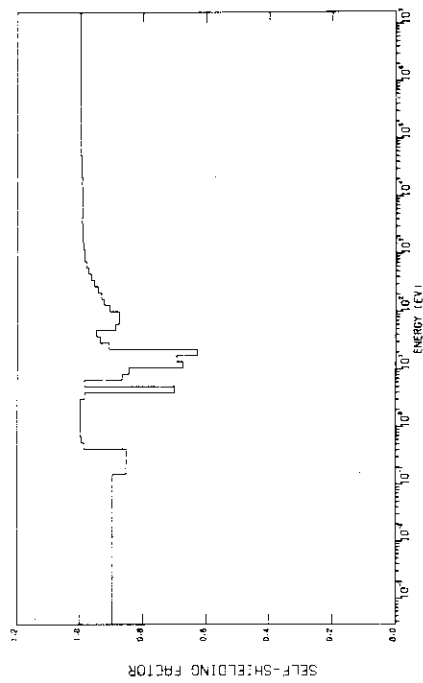
TEMPERATURE = 300 K  
SIG0= 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

CAPTURE

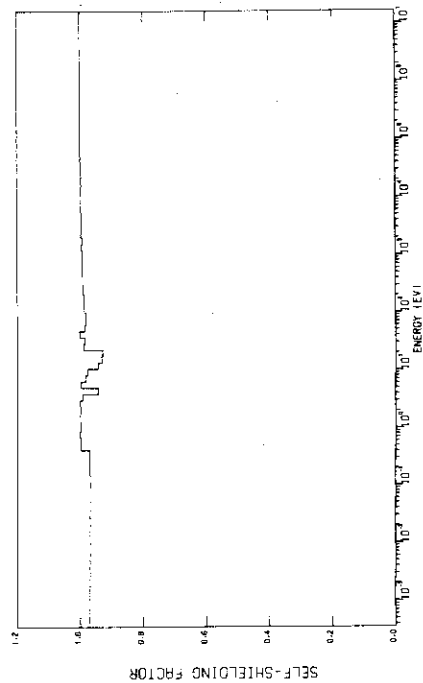
TEMPERATURE = 300 K  
SIG0= 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

CAPTURE

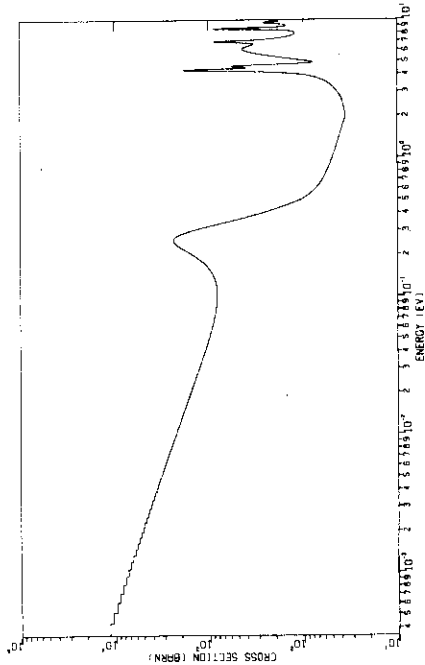
TEMPERATURE = 300 K  
SIG0= 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

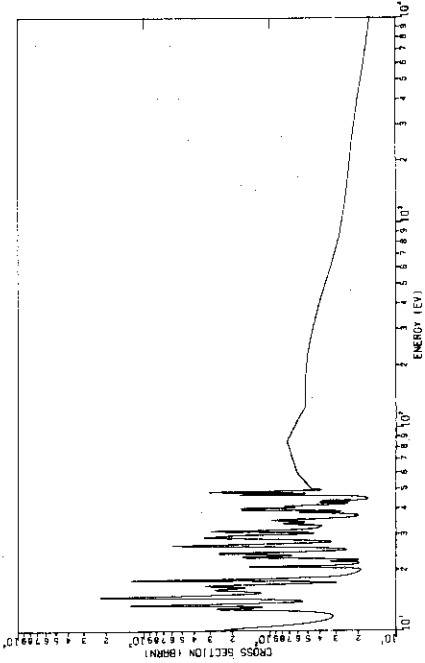
TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

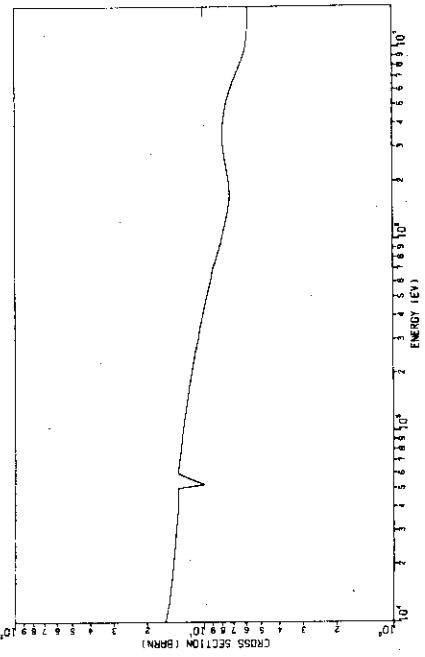
TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

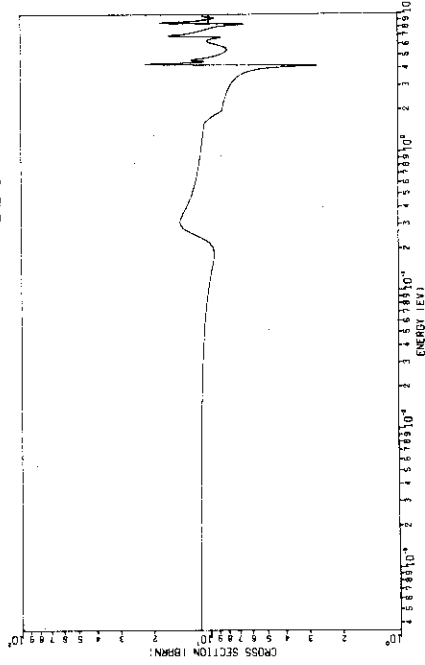
TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1266 PU-241 FROM ENDF/B IV ( 300K )

REACTION TYPE = 2

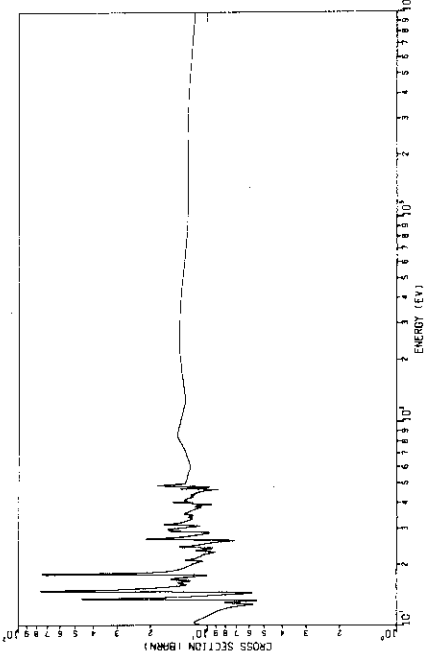
TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

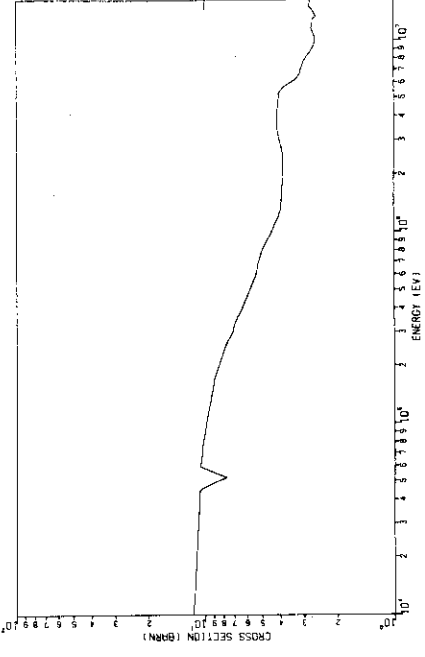
TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

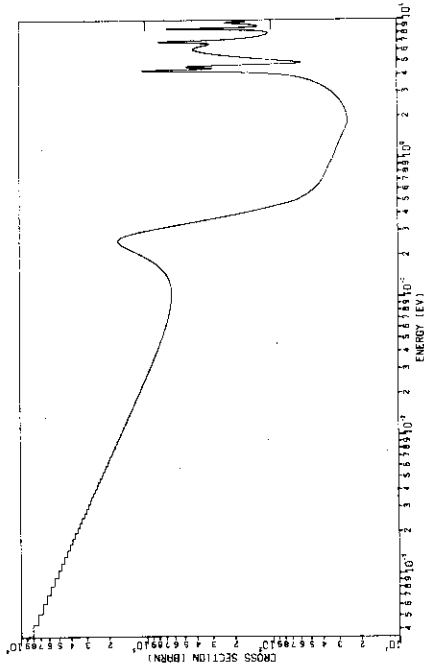
TEMPERATURE = 300 K  
SIG0= 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

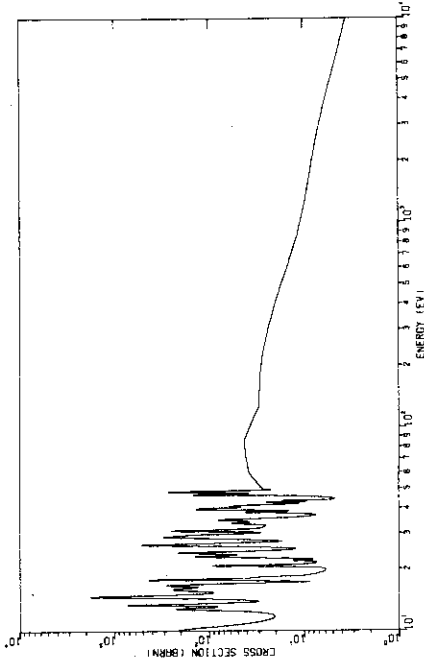
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-8</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

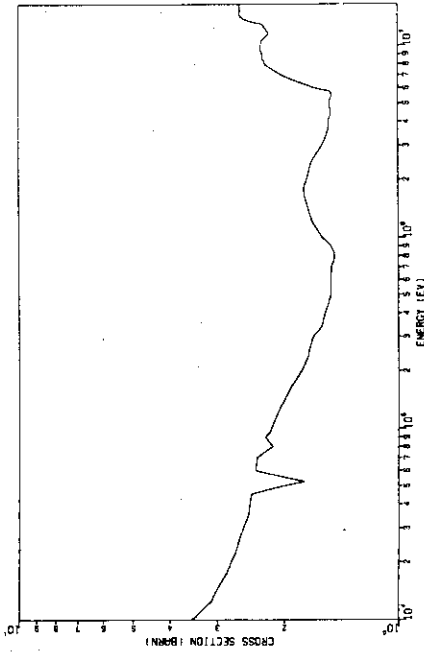
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>1</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

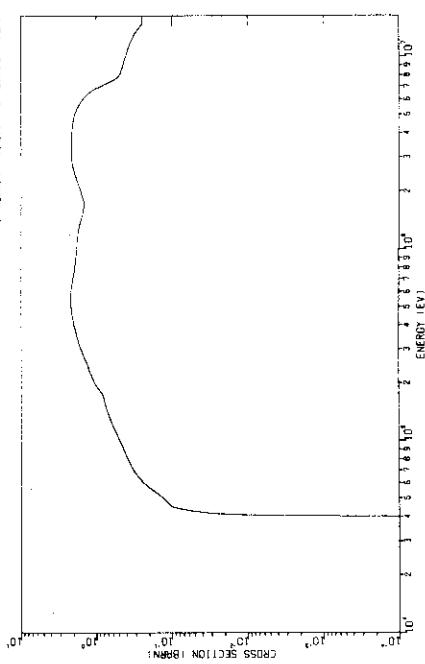
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 4

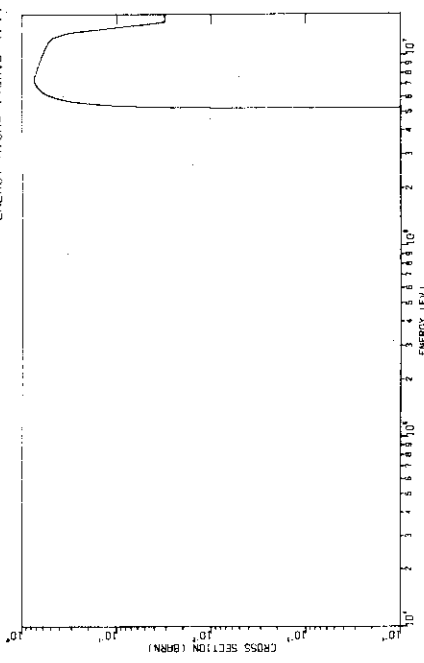
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

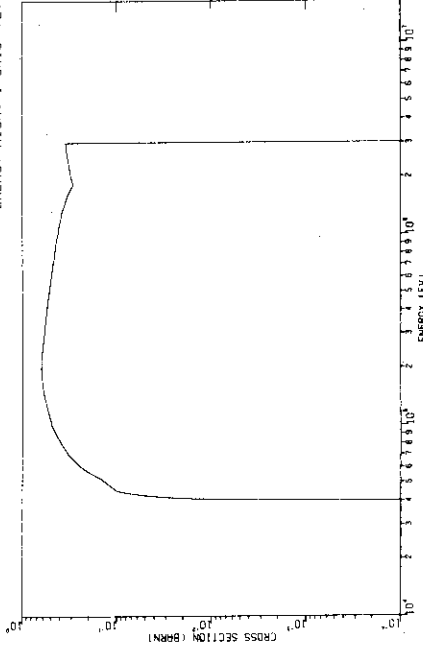
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K )

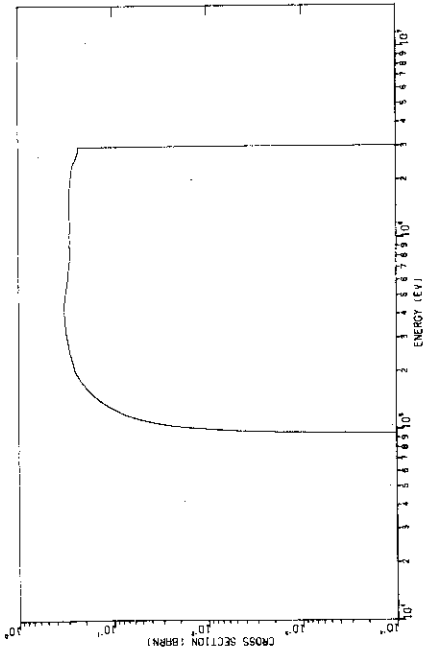
REACTION TYPE = 51

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



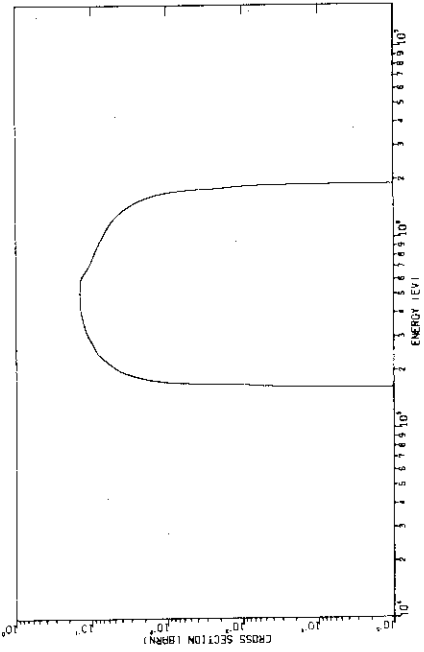
1266 PU-241 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 52

TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



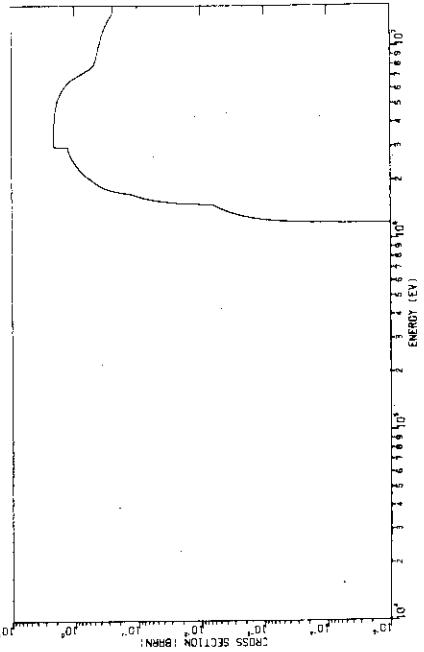
1266 PU-241 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 53

TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



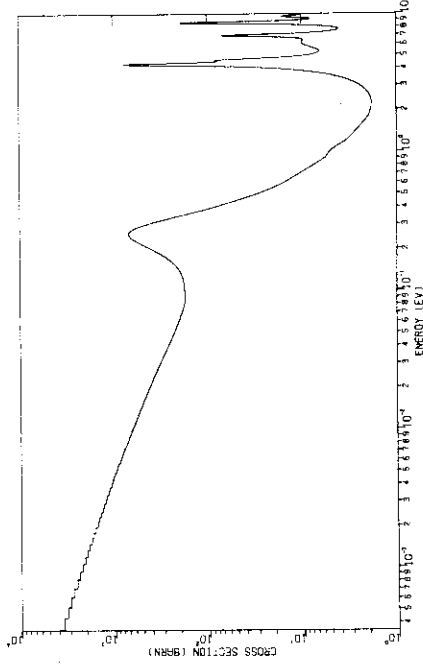
1266 PU-241 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 91

TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



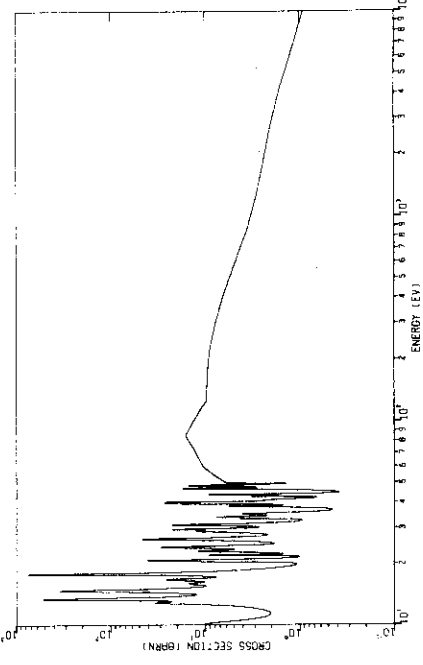
1266 PU 241 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 102

TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



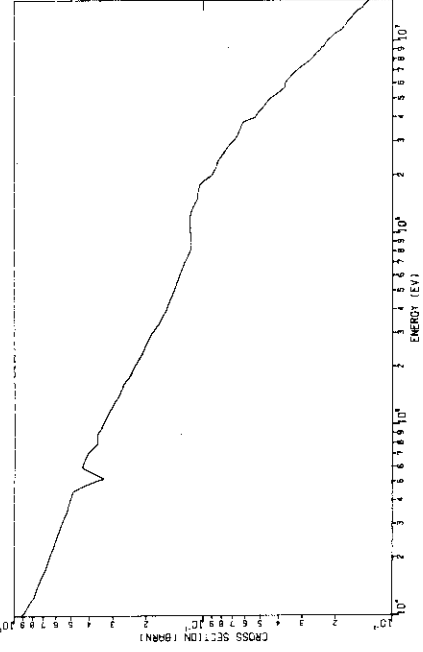
1266 PU 241 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 102

TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1266 PU-241 FROM ENDF/B-IV ( 300K ) REACTION TYPE = 102

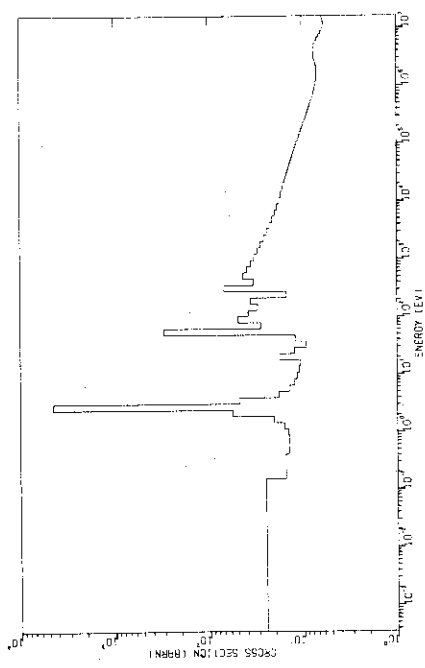
TEMPERATURE = 300 K  
SIGO= 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM CNDF/B-IV ( 300K )

TOTAL

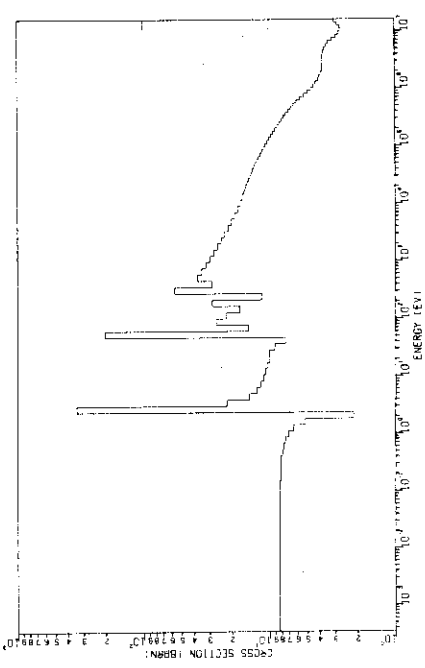
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

ELAS

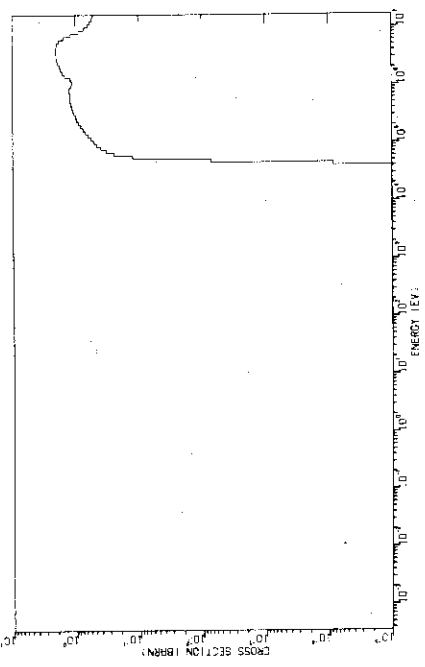
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

INELAS

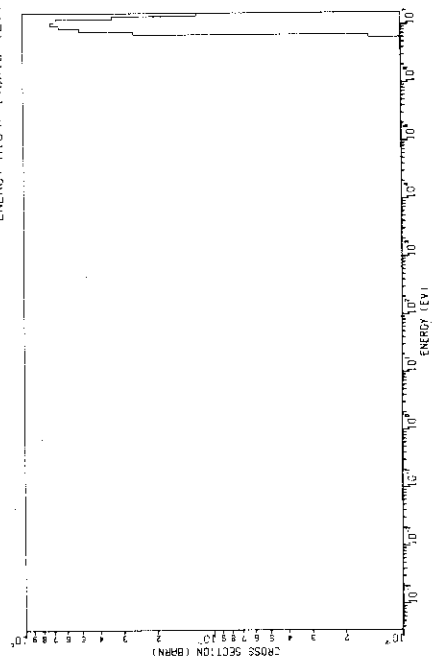
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1151 PU-242 FROM ENDF/B-IV ( 300K )

(N,2N)

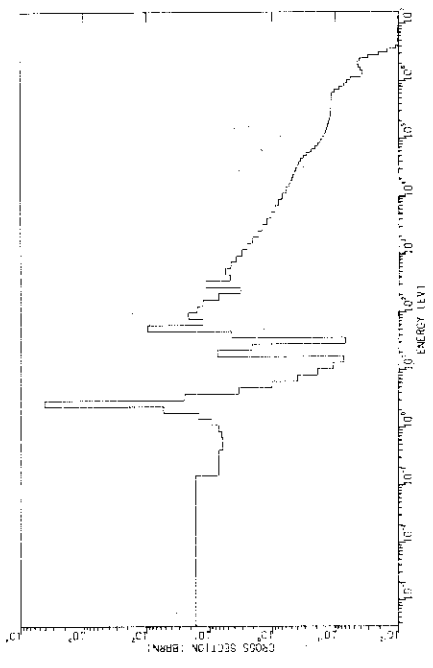
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1151 PU-242 FROM ENDF/B-IV ( 300K )

(N,G)

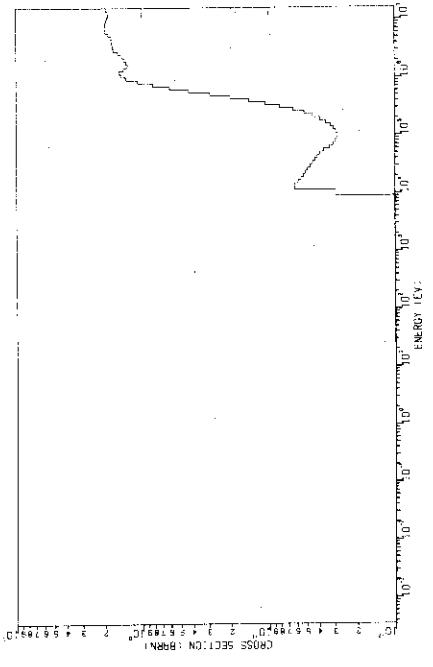
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

FISSION

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1151 PU-242 FROM ENDF/B-IV ( 300K )

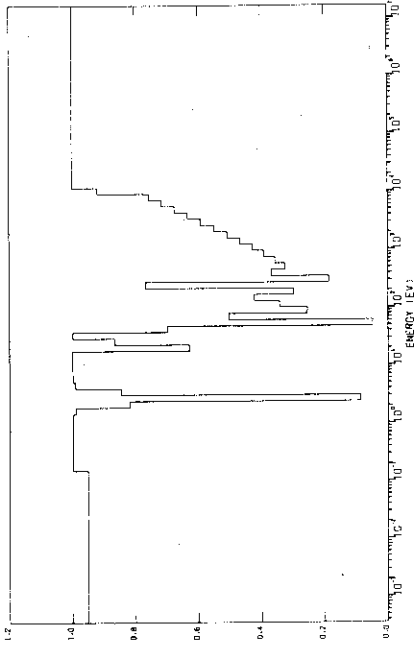
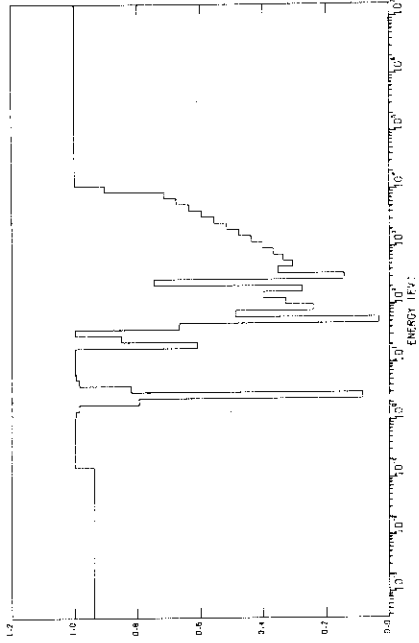
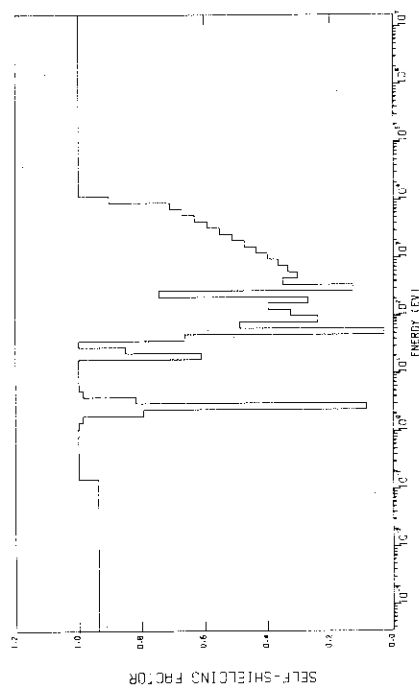
1161 PU-242 FROM ENDF/B-IV ( 300K )

1161 PU-242 FROM ENDF/B-IV ( 300K ) TOTAL

TEMPERATURE = 300 K  
S100= 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EVI)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EVI)

TEMPERATURE = 300 K  
S100= 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EVI)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EVI)

TEMPERATURE = 300 K  
S100= 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EVI)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EVI)



1151 PU-242 FROM ENDF/B-IV ( 300K ) TOTAL

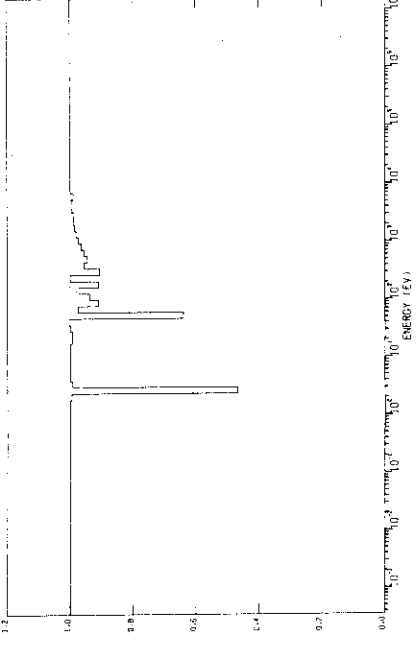
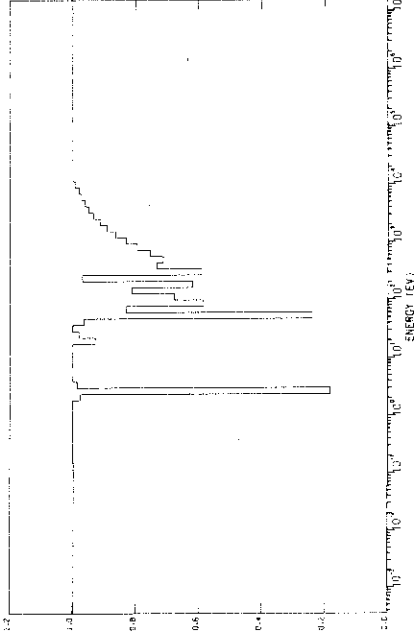
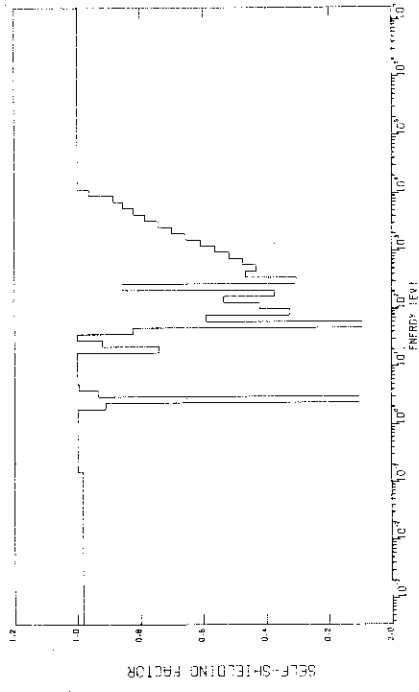
1161 PU-242 FROM ENDF/B-IV ( 300K ) TOTAL

1161 PU-242 FROM ENDF/B-IV ( 300K ) TOTAL

TEMPERATURE = 300 K  
S100= 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EVI)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EVI)

TEMPERATURE = 300 K  
S100= 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EVI)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EVI)

TEMPERATURE = 300 K  
S100= 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EVI)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EVI)

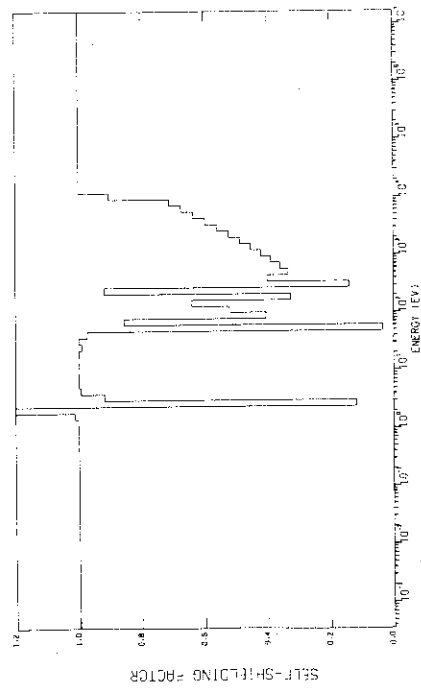




1161 94-242 FROM ENF/B-IV ( 300K )

ELDS

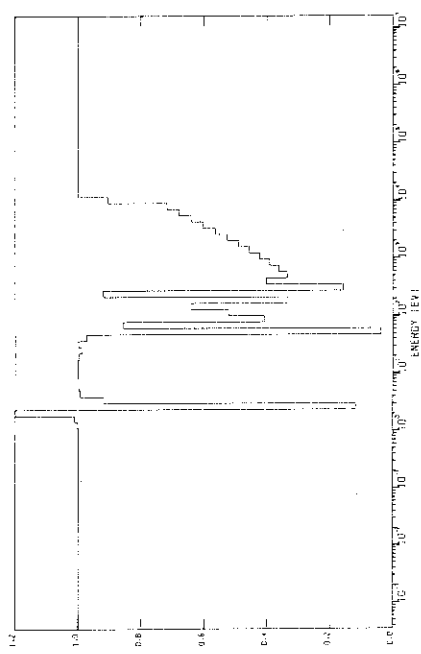
TEMPERATURE = 300 K  
SIGG= 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1161 94-242 FROM ENF/D-IV ( 300K )

ELDS

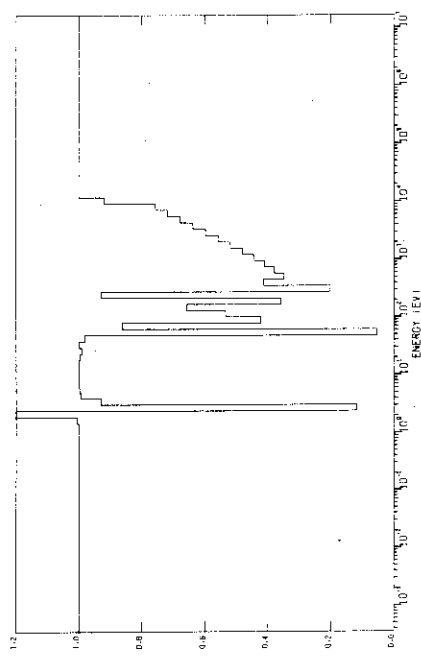
TEMPERATURE = 300 K  
SIGG= 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1161 94-242 FROM ENF/B-IV ( 300K )

ELDS

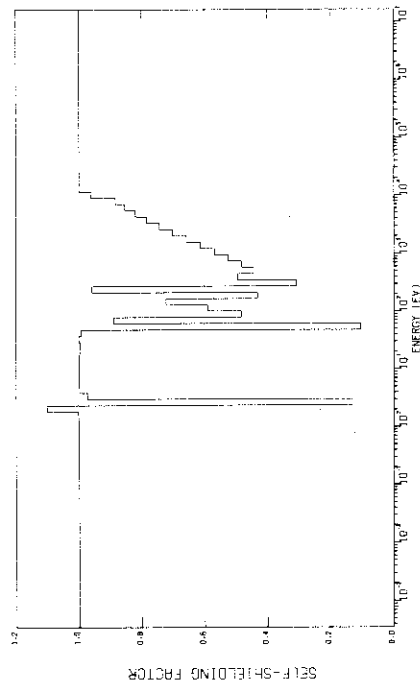
TEMPERATURE = 300 K  
SIGG= 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1161 94-242 FROM ENF/B-IV ( 300K )

ELDS

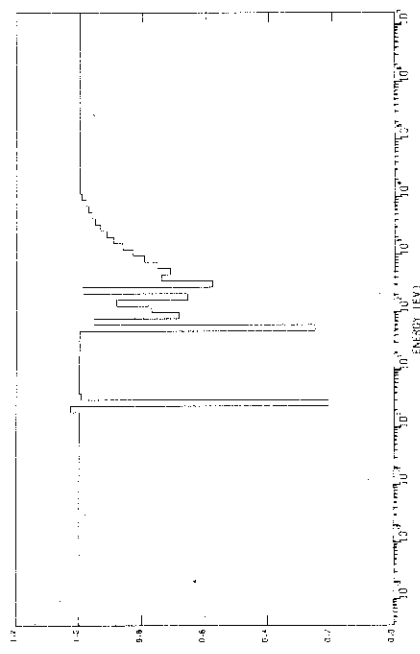
TEMPERATURE = 300 K  
SIGG= 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1161 94-242 FROM ENF/B-IV ( 300K )

ELDS

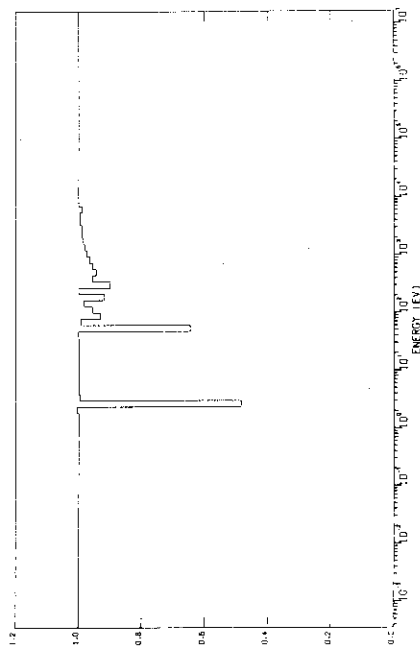
TEMPERATURE = 300 K  
SIGG= 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1161 94-242 FROM ENF/B-IV ( 300K )

ELDS

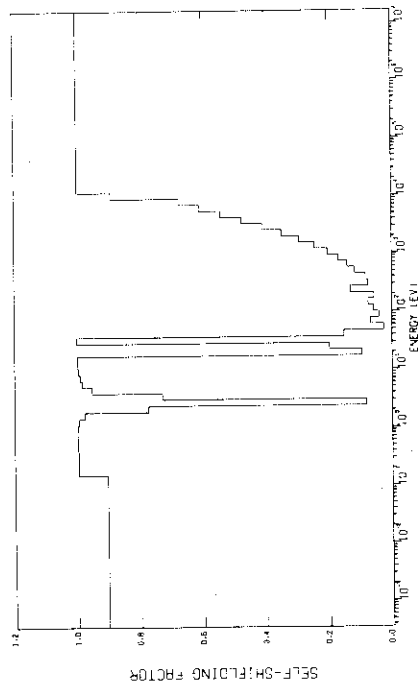
TEMPERATURE = 300 K  
SIGG= 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (eV)  
ENERGY HIGH =  $1.6 \times 10^7$  (eV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

CAPTURE

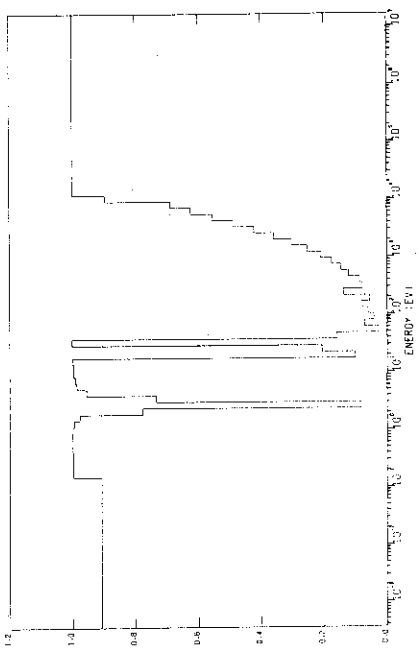
TEMPERATURE = 300 K  
SIGG= 0.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

CAPTURE

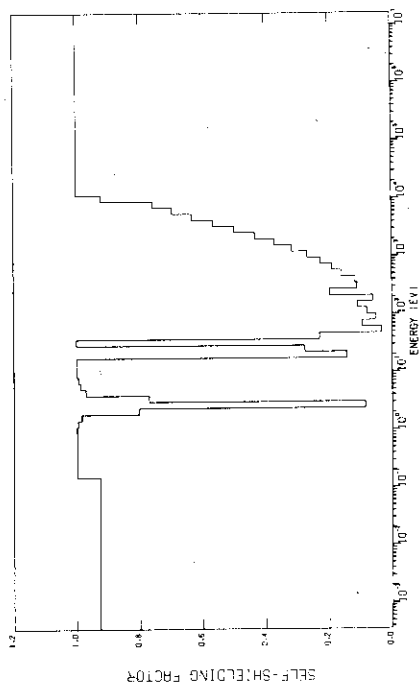
TEMPERATURE = 300 K  
SIGG= 1.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

CAPTURE

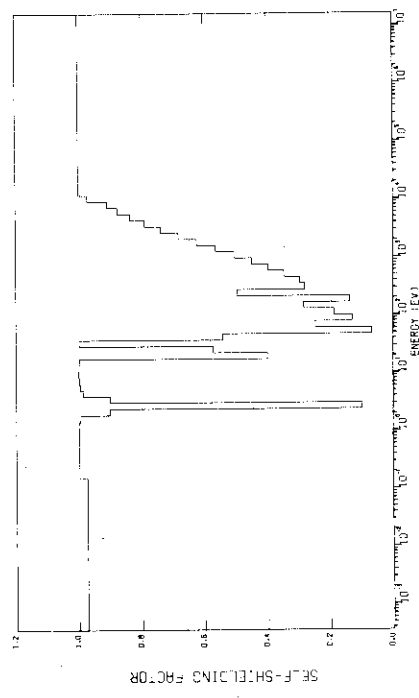
TEMPERATURE = 300 K  
SIGG= 10.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

CAPTURE

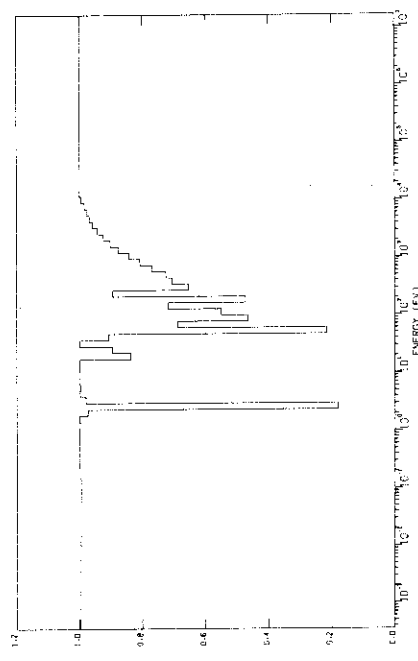
TEMPERATURE = 300 K  
SIGG= 100.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

CAPTURE

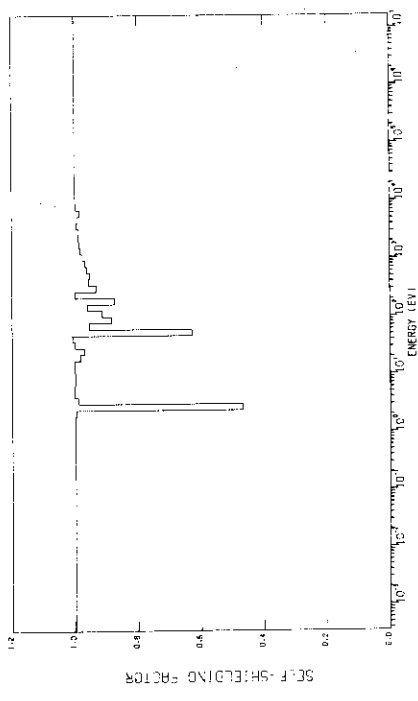
TEMPERATURE = 300 K  
SIGG= 1000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

CAPTURE

TEMPERATURE = 300 K  
SIGG= 10000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B IV ( 300K )

1161 PU-242 FROM ENDF/B-IV ( 300K )

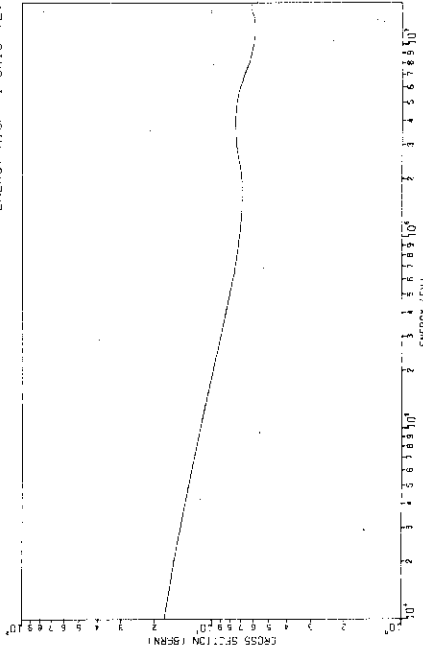
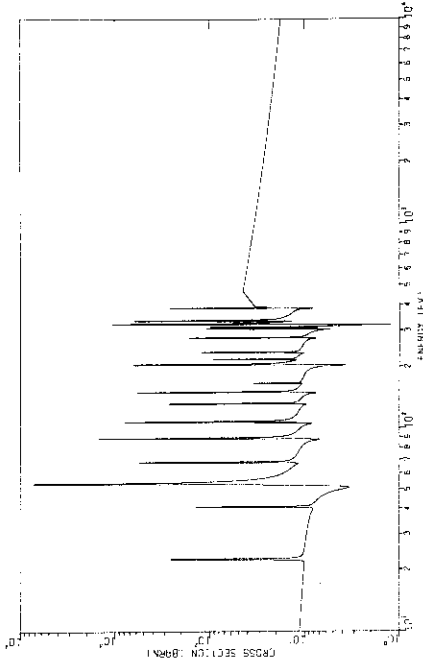
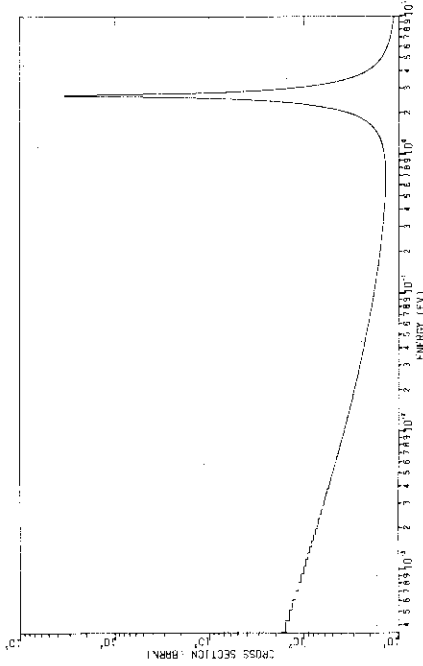
1161 PU-242 FROM ENDF/B IV ( 300K )

REACTION TYPE = 1

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

1161 PU-242 FROM ENDF/B IV ( 300K )

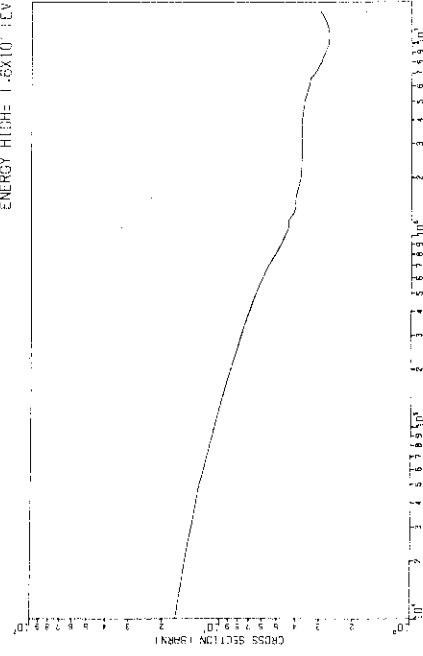
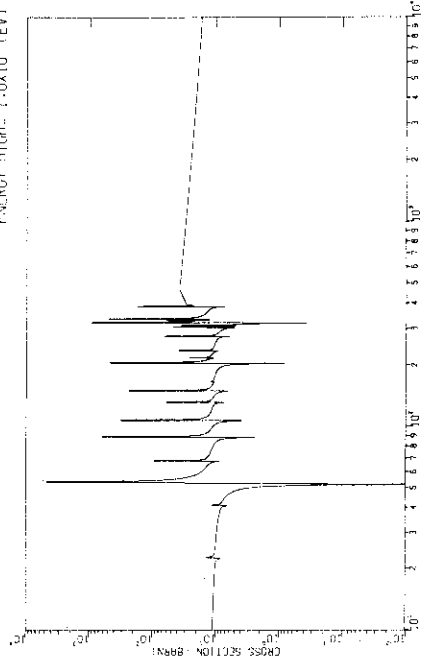
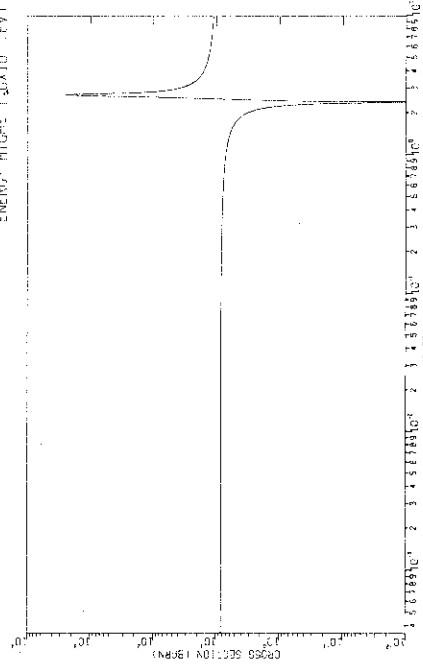
1161 PU-242 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

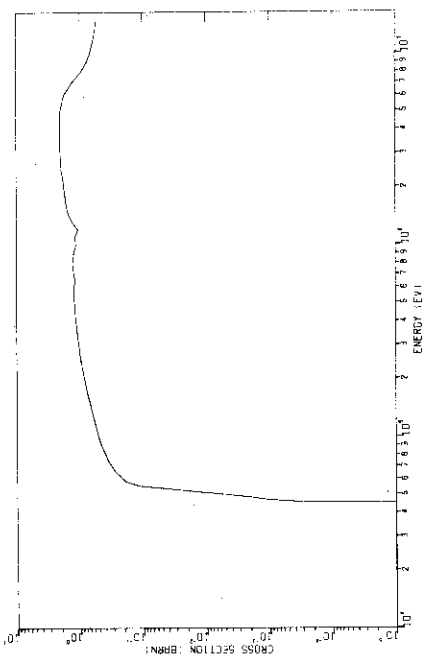
TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

REACTION TYPE - 4

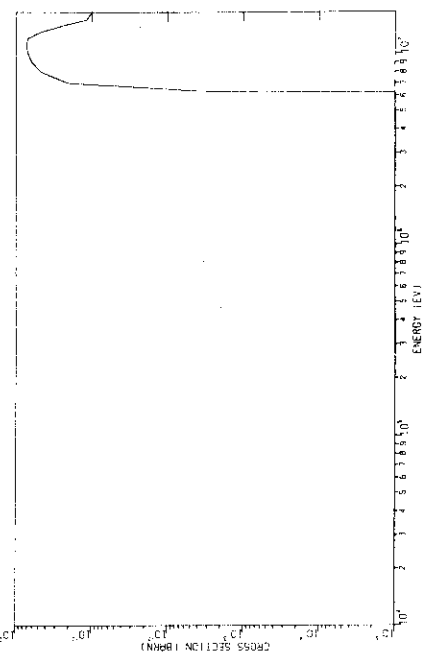
TEMPERATURE = 300 K  
SIG0 = 1.0000000E-0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

REACTION TYPE - 16

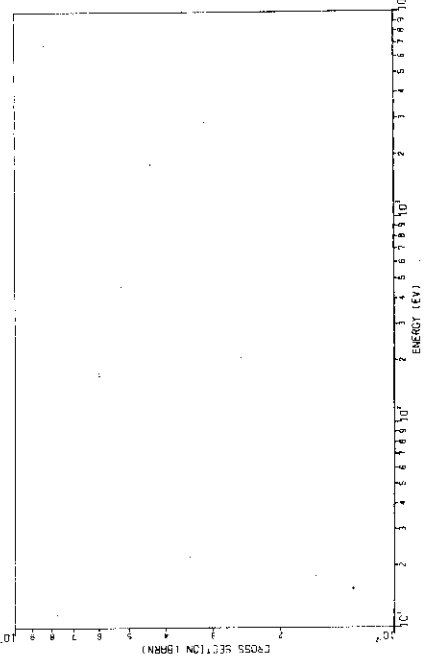
TEMPERATURE = 300 K  
SIG0 = 1.0000000E-0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

REACTION TYPE - 18

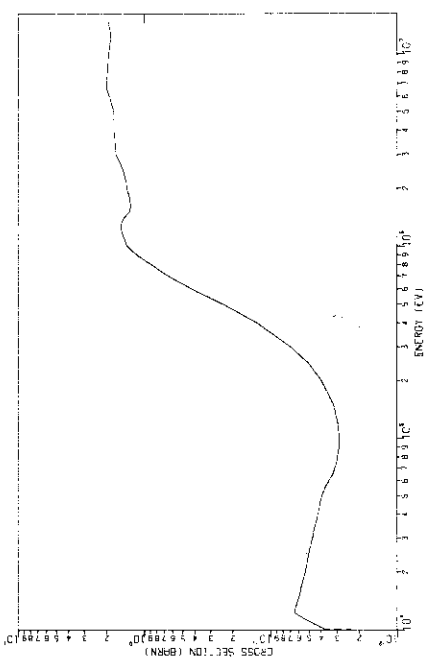
TEMPERATURE = 300 K  
SIG0 = 1.0000000E-0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

REACTION TYPE - 18

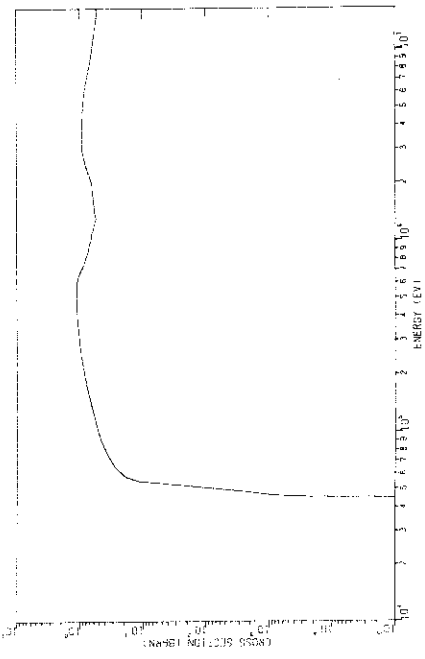
TEMPERATURE = 300 K  
SIG0 = 1.0000000E-0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

REACTION TYPE - 51

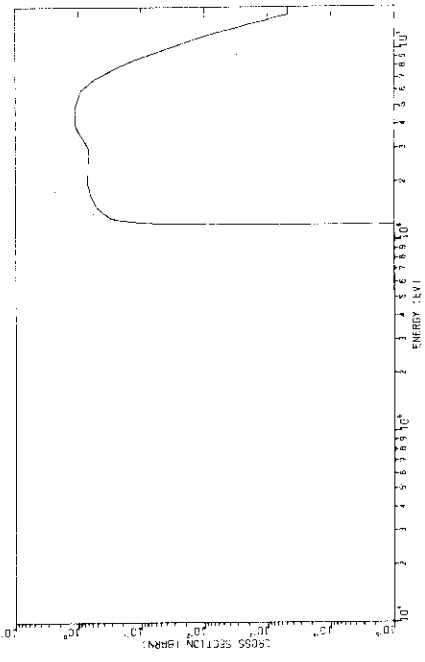
TEMPERATURE = 300 K  
SIG0 = 1.0000000E-0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1161 PU-242 FROM ENDF/B-IV ( 300K )

REACTION TYPE - 91

TEMPERATURE = 300 K  
SIG0 = 1.0000000E-0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



242 Pu  
94  
1161

JAERI-M 84-053

116: PU-242 FROM ENDF/B-IV (300K)

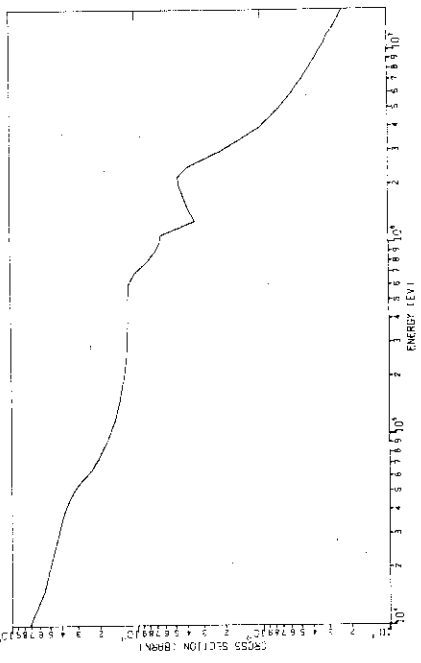
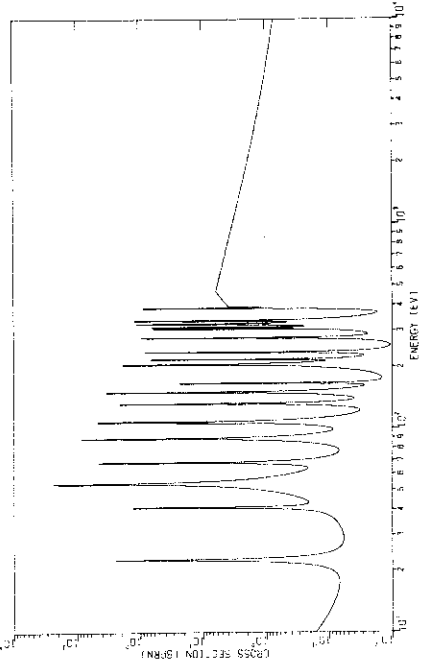
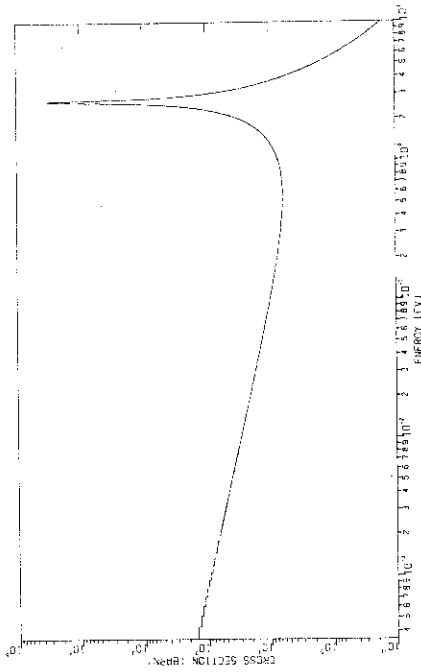
1161 PU-242 FROM ENDF/B-IV (300K)

1161 PU-242 FROM ENDF/B-IV (300K)

TEMPERATURE = 300 K  
SIG0 = 1.0000000E+0  
ENERGY LOW = 3.5X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)

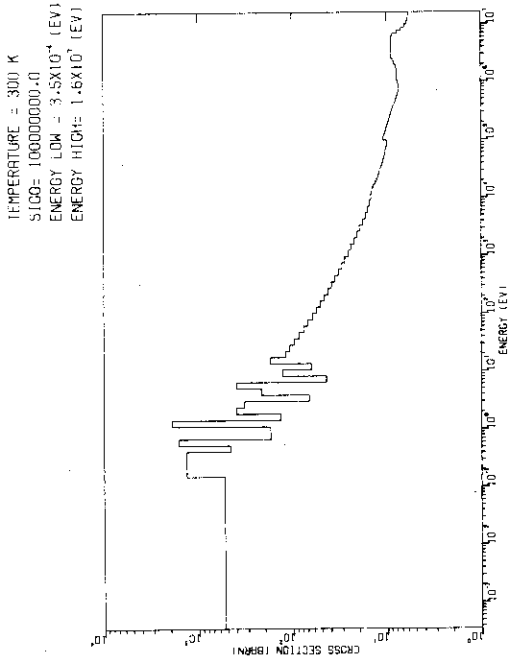
TEMPERATURE = 300 K  
SIG0 = 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)

TEMPERATURE = 300 K  
SIG0 = 1.0000000E+0  
ENERGY LOW = 1.0X10<sup>-4</sup> (eV)  
ENERGY HIGH = 1.0X10<sup>4</sup> (eV)



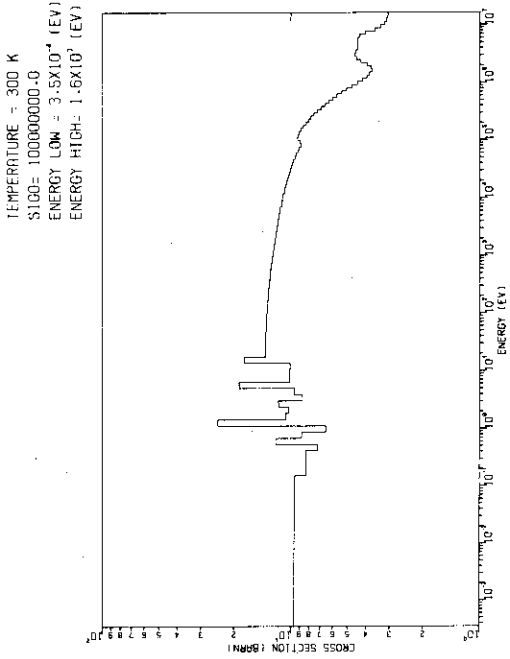
1056 AM-241 FROM ENDF/B-IV ( 300K )

(TOTAL)



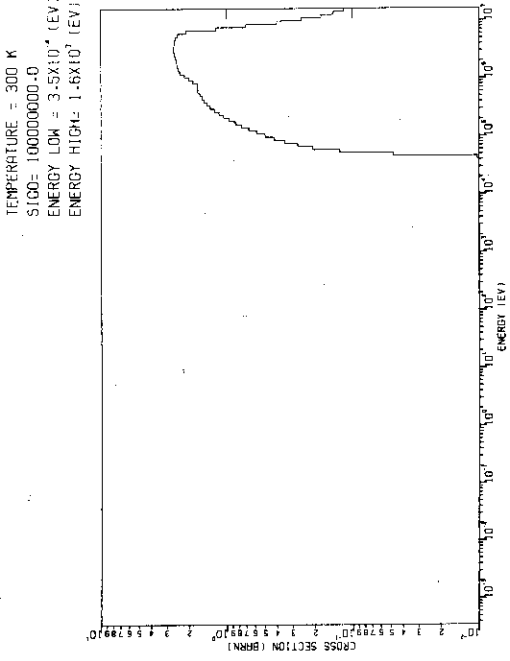
1056 AM-241 FROM ENDF/B-IV ( 300K )

(ELAS)



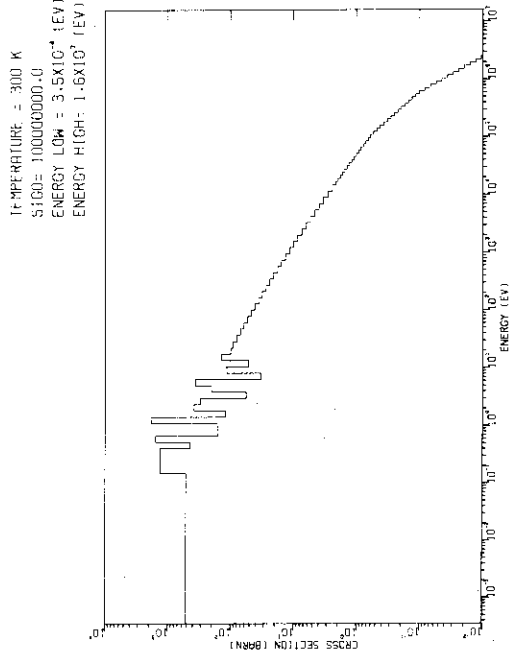
1056 AM-241 FROM ENDF/B-IV ( 300K )

(INELAS)



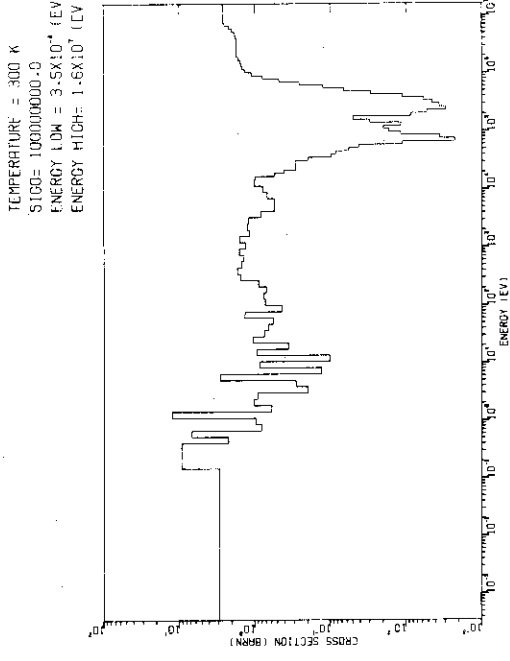
1056 AM-241 FROM ENDF/B-IV ( 300K )

(IN,G)



1056 AM-241 FROM ENDF/B-IV ( 300K )

(FISSION)



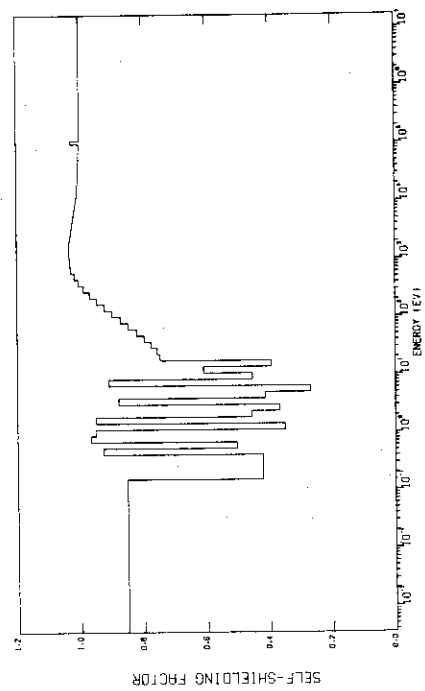
241  
95 Am  
1056

JAERI-M 84-053

1056 AM-241 FROM ENDF/B-IV ( 300K )

TOTAL

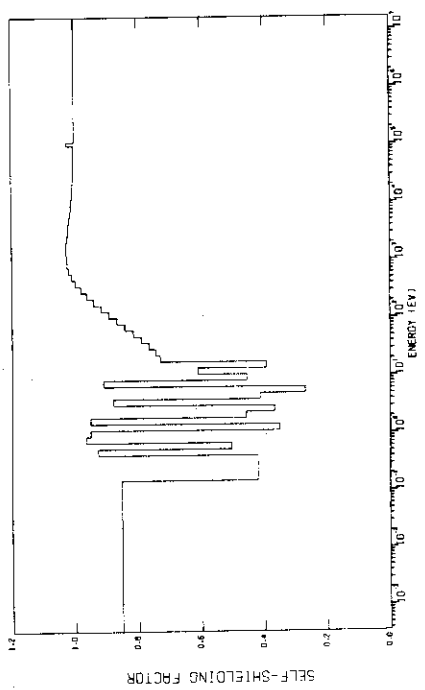
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

TOTAL

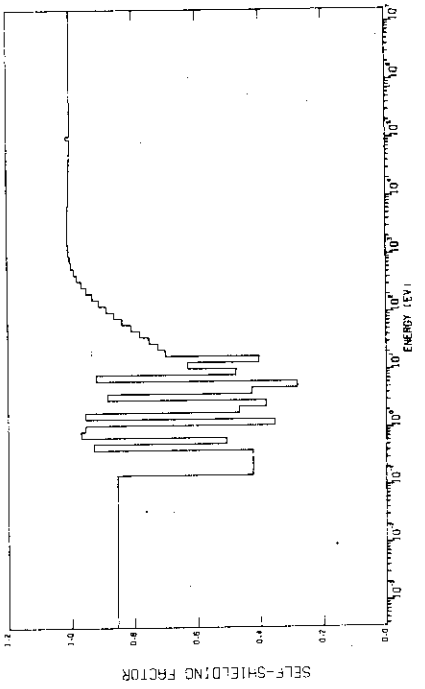
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

TOTAL

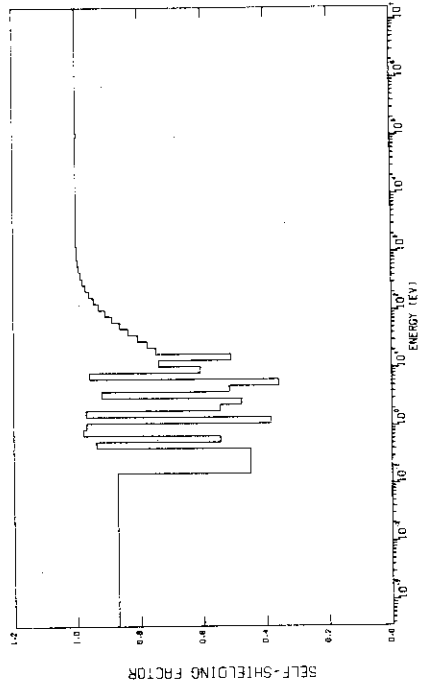
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

TOTAL

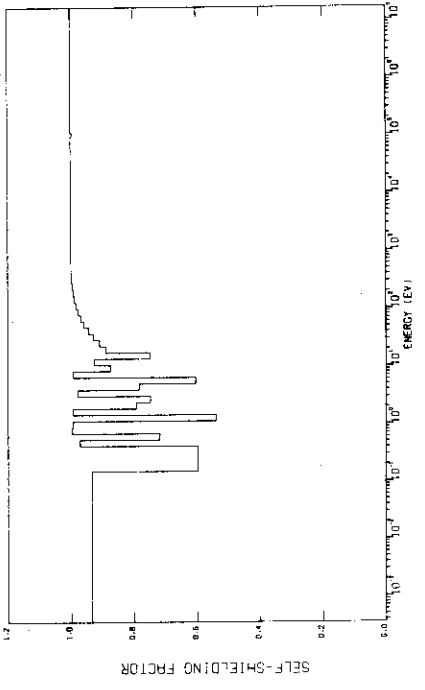
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

TOTAL

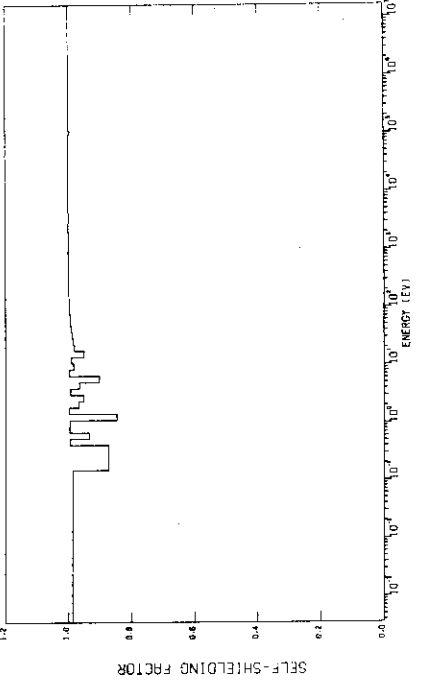
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

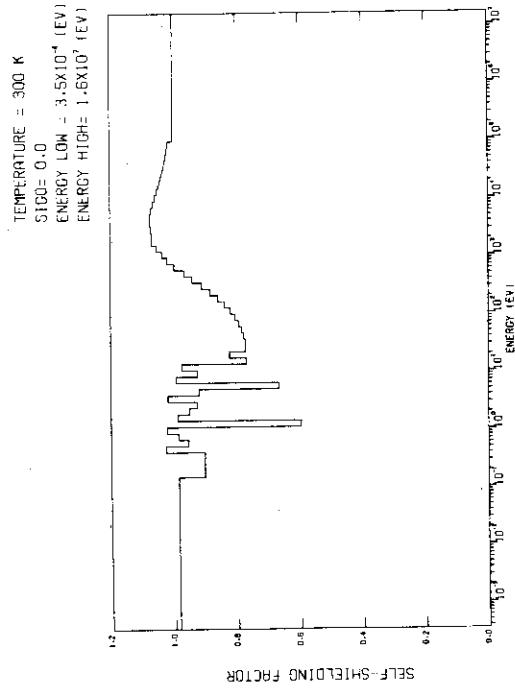
TOTAL

TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



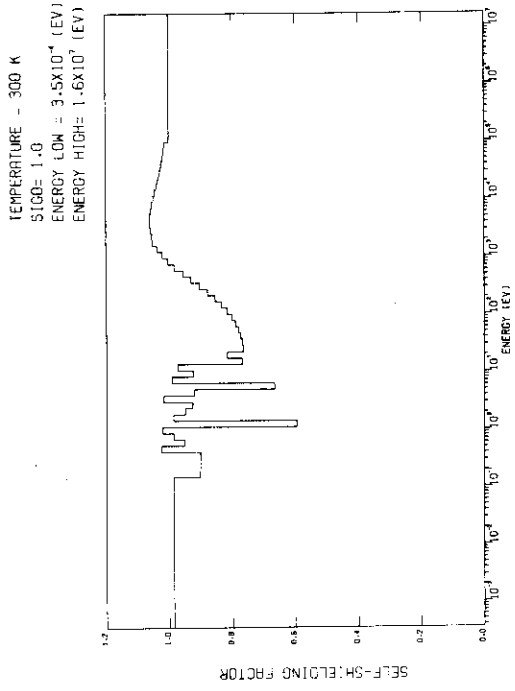
1056 AM-241 FROM ENDF/B-IV ( 300K )

ELAS



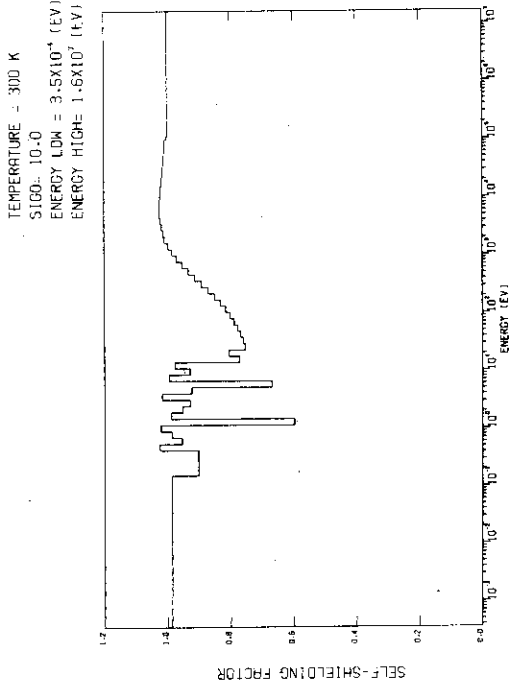
1056 AM-241 FROM ENDF/B-IV ( 300K )

ELAS



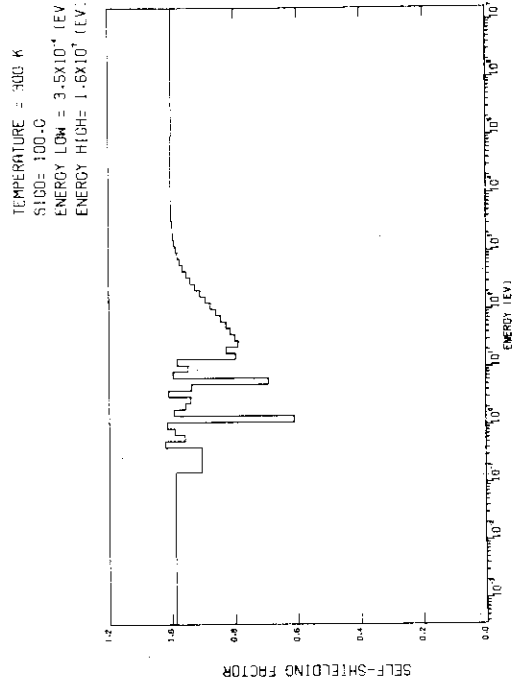
1056 AM-241 FROM ENDF/B-IV ( 300K )

ELAS



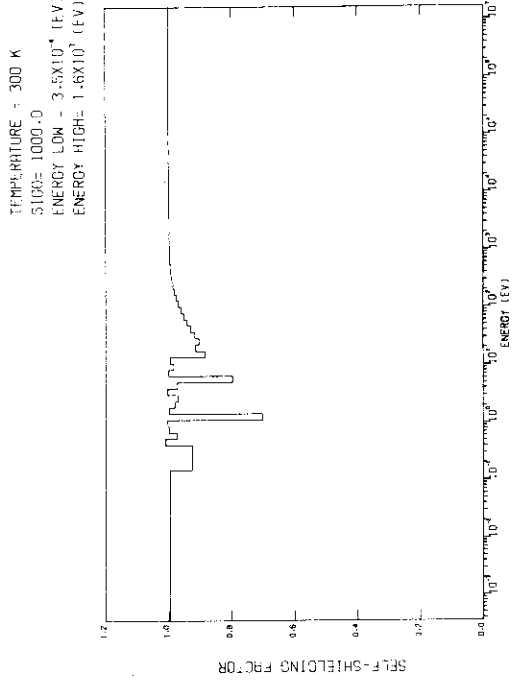
1056 AM-241 FROM ENDF/B-IV ( 300K )

ELAS



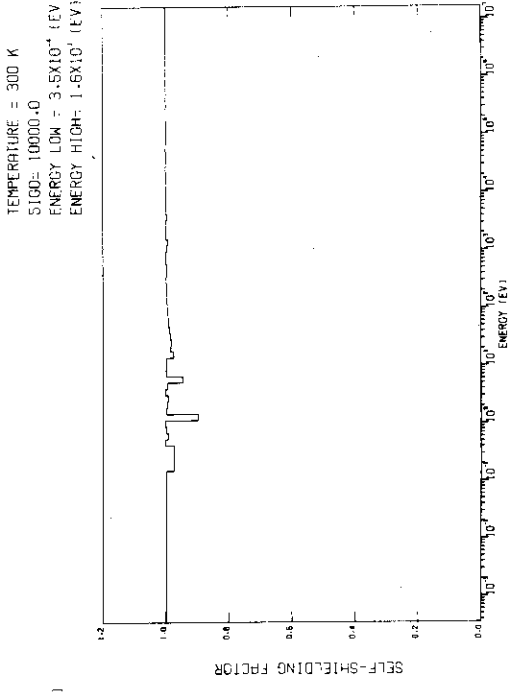
1056 AM 241 FROM ENDF/B-IV ( 300K )

ELAS



1056 AM-241 FROM ENDF/B-IV ( 300K )

ELAS

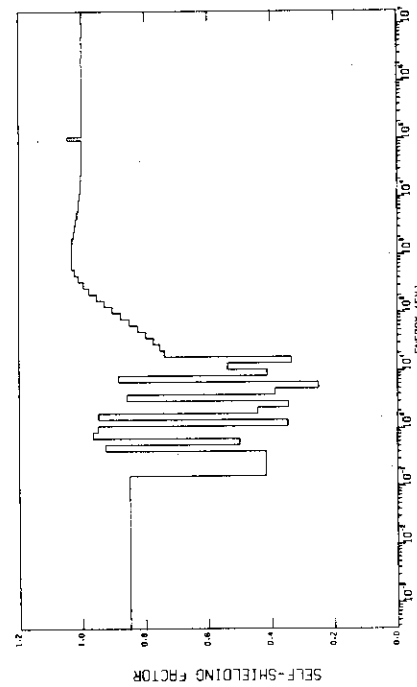




1056 AM-241 FROM ENDF/B-IV ( 300K )

CAPTURE

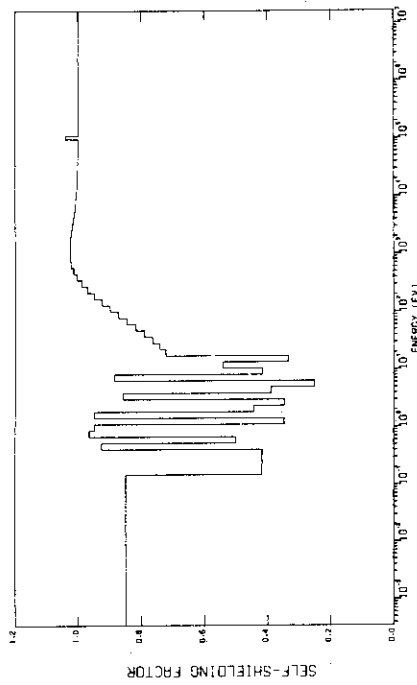
TEMPERATURE = 300 K  
SIG0 = 0.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

CAPTURE

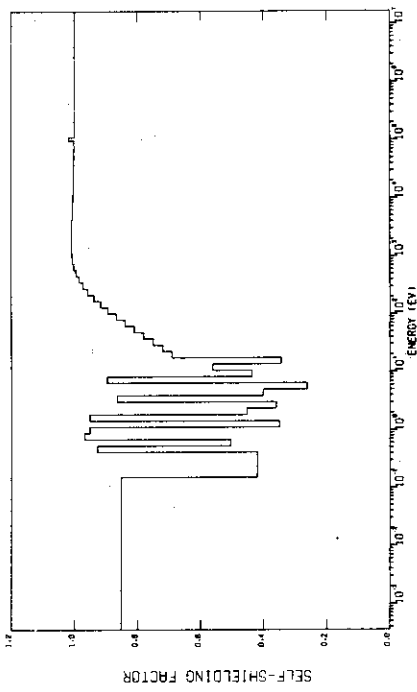
TEMPERATURE = 300 K  
SIG0 = 1.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

CAPTURE

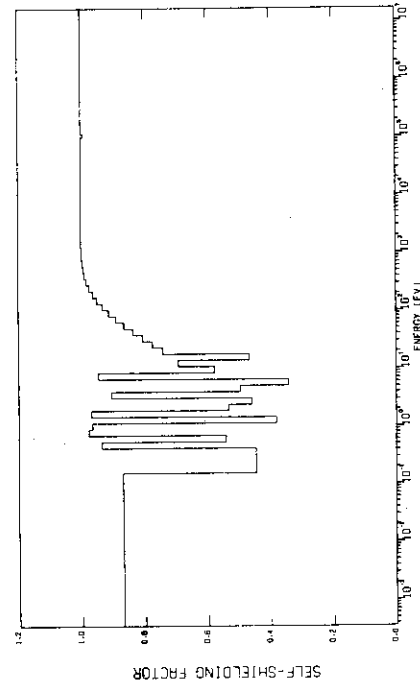
TEMPERATURE = 300 K  
SIG0 = 10.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

CAPTURE

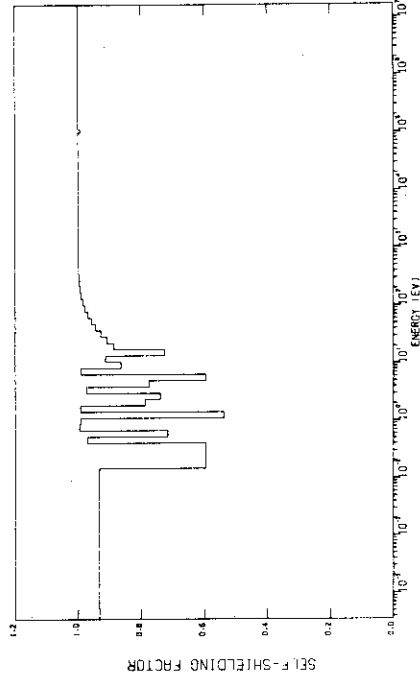
TEMPERATURE = 300 K  
SIG0 = 100.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

CAPTURE

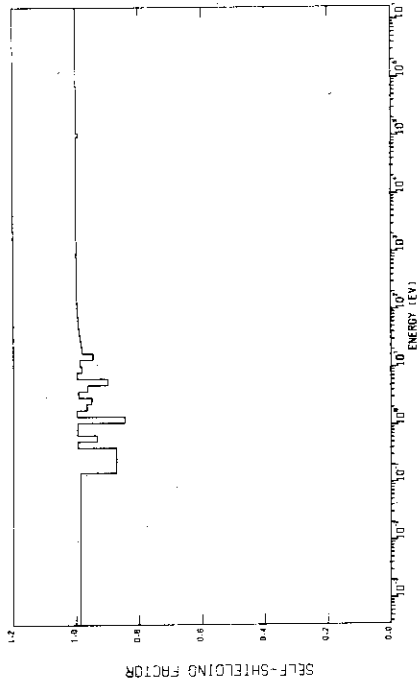
TEMPERATURE = 300 K  
SIG0 = 1000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

CAPTURE

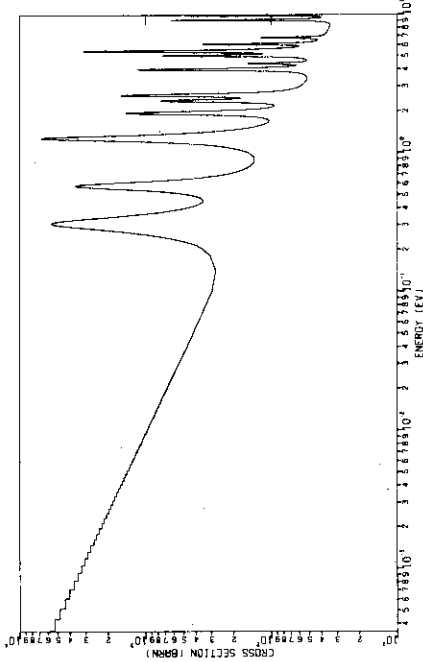
TEMPERATURE = 300 K  
SIG0 = 10000.0  
ENERGY LOW =  $3.5 \times 10^{-4}$  (EV)  
ENERGY HIGH =  $1.6 \times 10^7$  (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

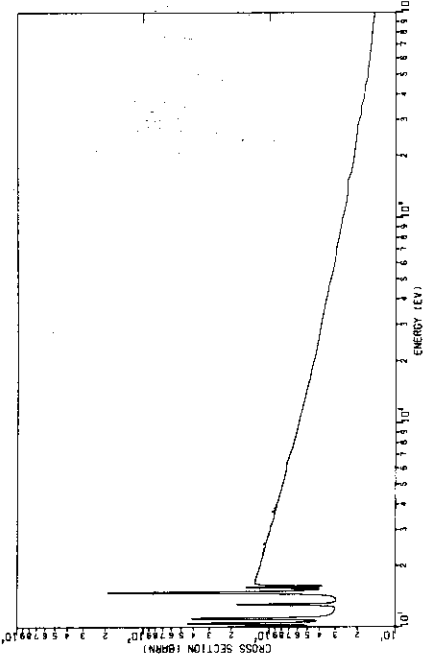
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

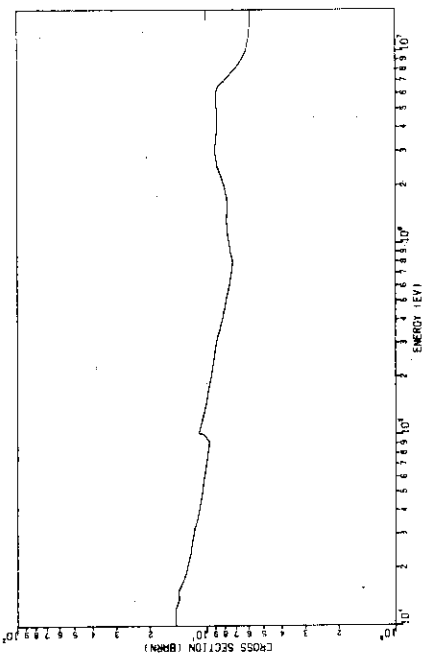
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 1

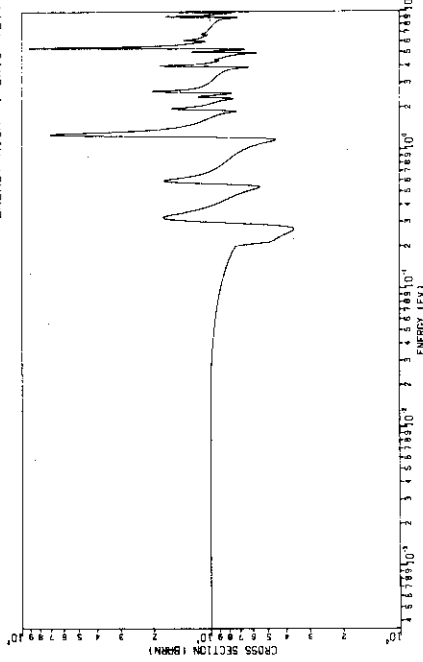
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

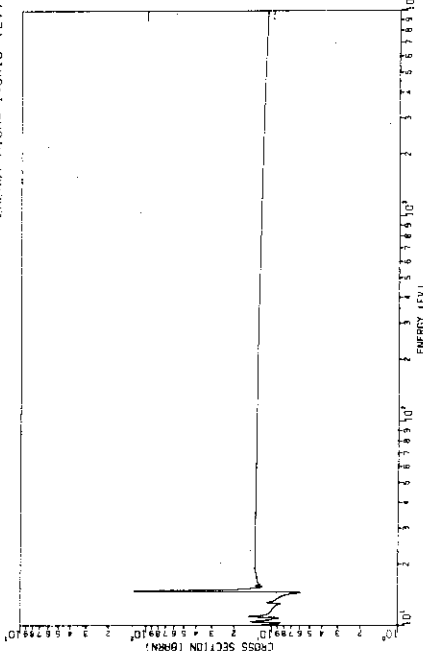
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

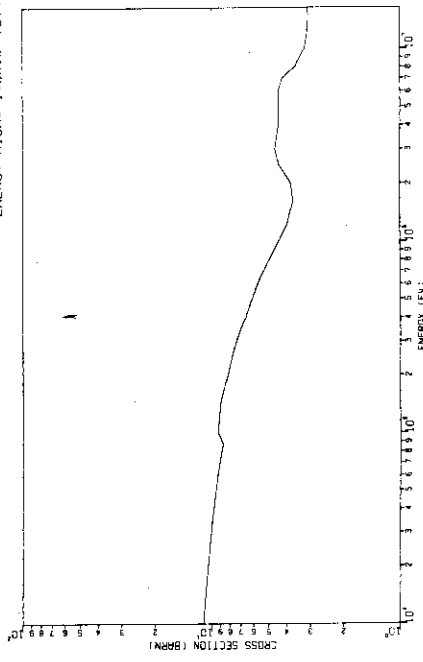
TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.0X10<sup>1</sup> (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 2

TEMPERATURE = 300 K  
SIG0= 100000000.0  
ENERGY LOW = 1.0X10<sup>1</sup> (EV)  
ENERGY HIGH= 1.6X10<sup>1</sup> (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

1056 AM-241 FROM ENDF/B-IV ( 300K )

1056 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 18

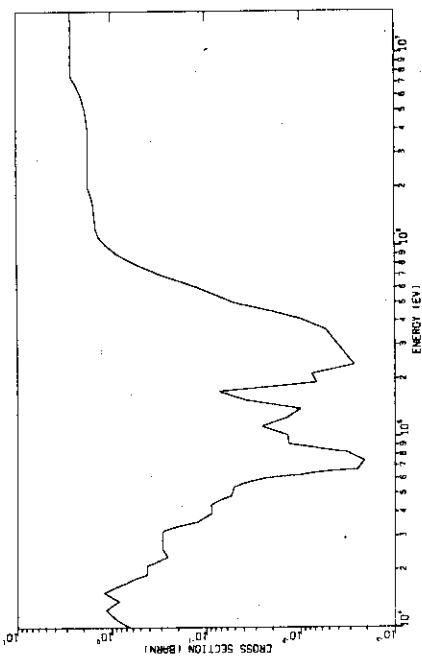
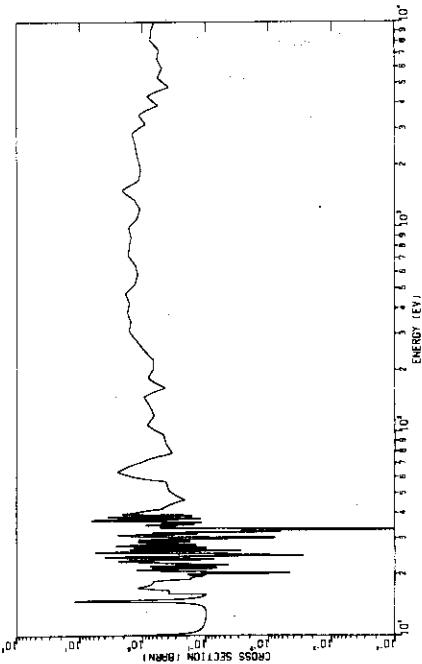
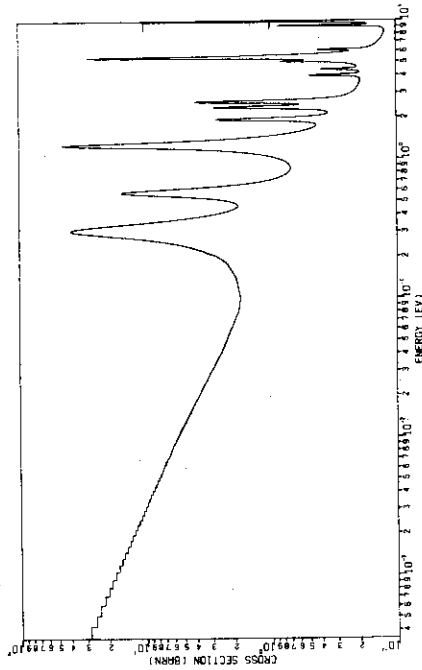
REACTION TYPE = 18

REACTION TYPE = 18

TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1056 AM-241 FROM ENDF/B-IV ( 300K )

1056 AM-241 FROM ENDF/B-IV ( 300K )

1056 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE = 102

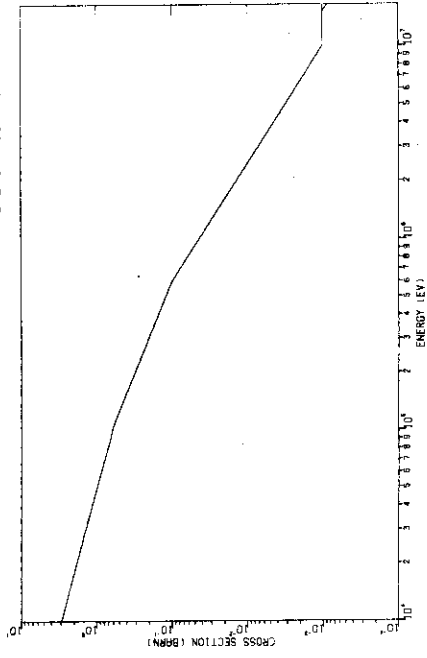
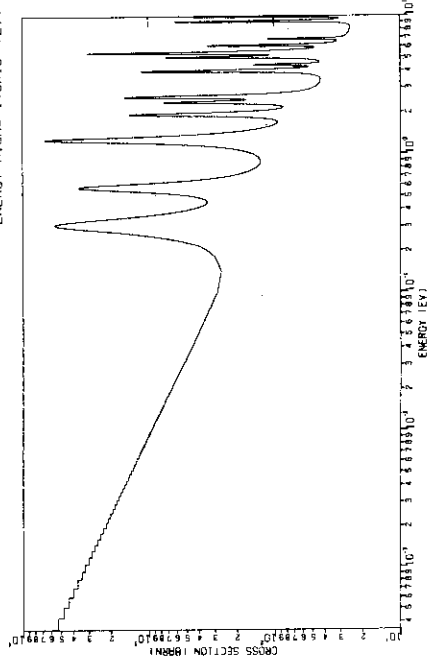
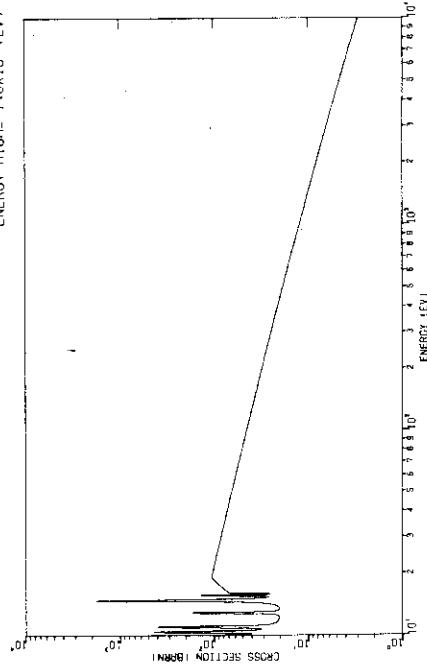
REACTION TYPE = 102

REACTION TYPE = 102

TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 3.5X10<sup>-4</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)

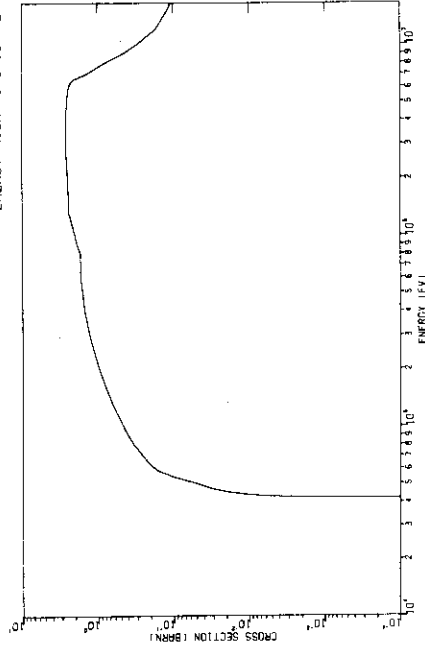
TEMPERATURE = 300 K  
SIG0 = 10000000.0  
ENERGY LOW = 1.0X10<sup>7</sup> (EV)  
ENERGY HIGH = 1.0X10<sup>7</sup> (EV)



1055 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE : 4

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)



1055 AM-241 FROM ENDF/B-IV ( 300K )

REACTION TYPE : 91

TEMPERATURE = 300 K  
SIG0 = 100000000.0  
ENERGY LOW = 1.0X10<sup>0</sup> (EV)  
ENERGY HIGH = 1.6X10<sup>7</sup> (EV)

