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**GRAPHS OF EVALUATED NEUTRON CROSS
SECTIONS IN JENDL-2**

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Graphs of Evaluated Neutron Cross Sections in JENDL-2

Japanese Nuclear Data Committee

Editors : Tetsuo ASAMI and Tsutomu NARITA

(Received February 1, 1984)

Graphs of JENDL-2 Evaluated Neutron Cross-Section Data for 89 nuclides are presented. Total, elastic and inelastic scattering, capture, fission and threshold reaction cross sections are given for each nuclide in the energy range up to 20 MeV.

Keywords : Neutron Cross Section, Evaluated Data, JENDL-2, Graphs, Energy Range up to 20 MeV.

JENDL-2 の評価中性子断面積データのグラフ集

日本原子力研究所東海研究所シグマ研究委員会

(編) 浅見 哲夫・成田 孟

(1984年2月1日受理)

JENDL-2 に収録されている 89 核種の中性子断面積の評価データのグラフを集録してある。各核種毎に、全断面積、弹性散乱・中性子捕獲・核分裂・非弹性散乱・しきい核反応断面積の評価データがそれぞれ 1 枚のプロット図に示してある。

目 次 な し

A general purpose file of Japanese Evaluated Nuclear Data Library version 2 (JENDL-2) has the evaluated data for 89 nuclides and was released in December 1982. Table 1 lists the nuclides whose data have been stored in JENDL-2, and their Material Numbers. The data for these nuclides are compiled in ENDF/B-IV format.

In order to grasp easily an outline of the evaluated data in JENDL-2, a compilation of their graphs is made. In these graphs, only the evaluated neutron cross-section data (i.e., File 3 (MF=3) data) are treated. The data plots are made with a computer code SPLINT^{1),2)} using FACOM-M 380 computer.

In the present graphs, one sheet of data plot is given for each reaction cross section in the energy range up to 20 MeV so as to be able to see immediately its shape.

The plottings for the total, elastic scattering, capture and fission cross sections are made generally in log-log scale. On the other hand, both the data of the inelastic scattering and threshold reaction cross sections are plotted generally in linear-linear scale. In the graph for the inelastic scattering, the cross sections for the first through the fifth excited levels (MT=51 - 55) in maximum are plotted together with the total inelastic scattering cross section. For the threshold reactions, one graph includes all the cross section data for one nuclide. Threshold reaction data for some nuclides are plotted in linear-log scale so as to make an intercomparison between the data which are widely different orders of magnitude.

In the heading for each graph, Material Number and MT

Number as well as the symbols for Nuclide and Reaction Type are given as a guide.

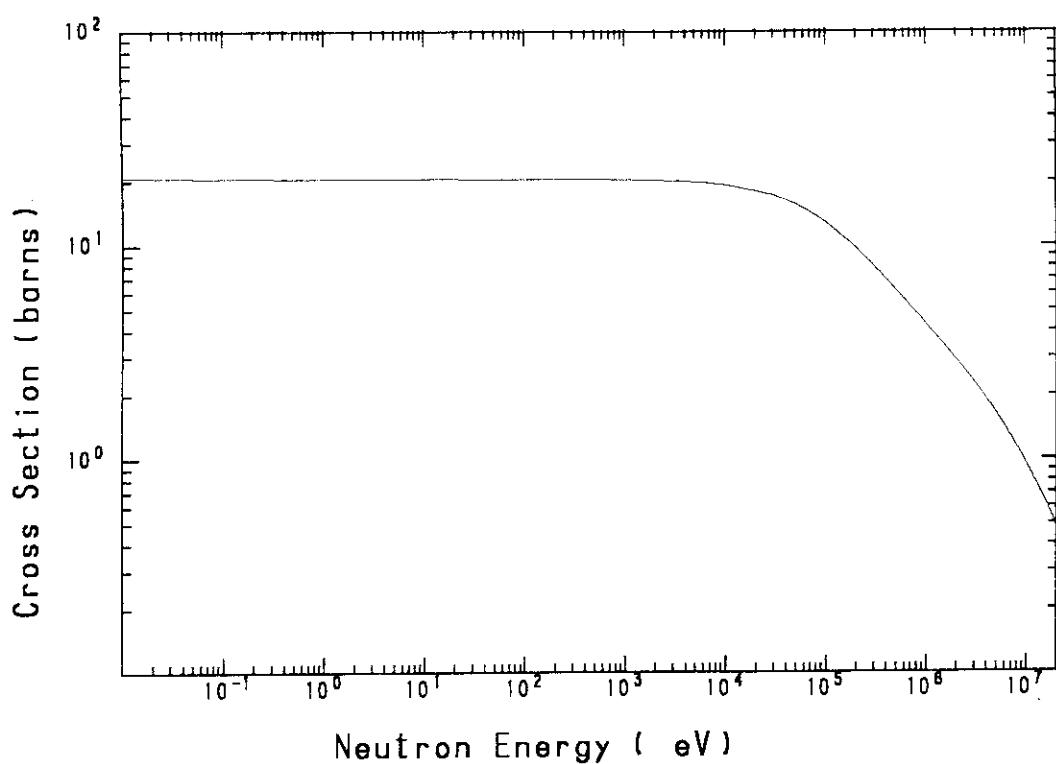
The main purpose of this graph is to give a whole view for each evaluated data. Therefore, when readers want to know details of the evaluated data, they should refer to other reports for JENDL-2. In addition to these graphs, the reports on the JENDL-2 data evaluation and on the comparison plots between the JENDL-2 data and experimental and other evaluated data are to be published in near future.

References

- 1) Narita T., Nakagawa T., Kanemori Y. and Yamakoshi H. : "SPLINT : A Computer Code for Superimposed Plotting of the Experimental and the Evaluated Data", JAERI-M 5769 (1974).
- 2) Nakagawa T.: "SPINPUT : A Computer Program for Making Input Data of SPLINT", JAERI-M 9499 (1981).

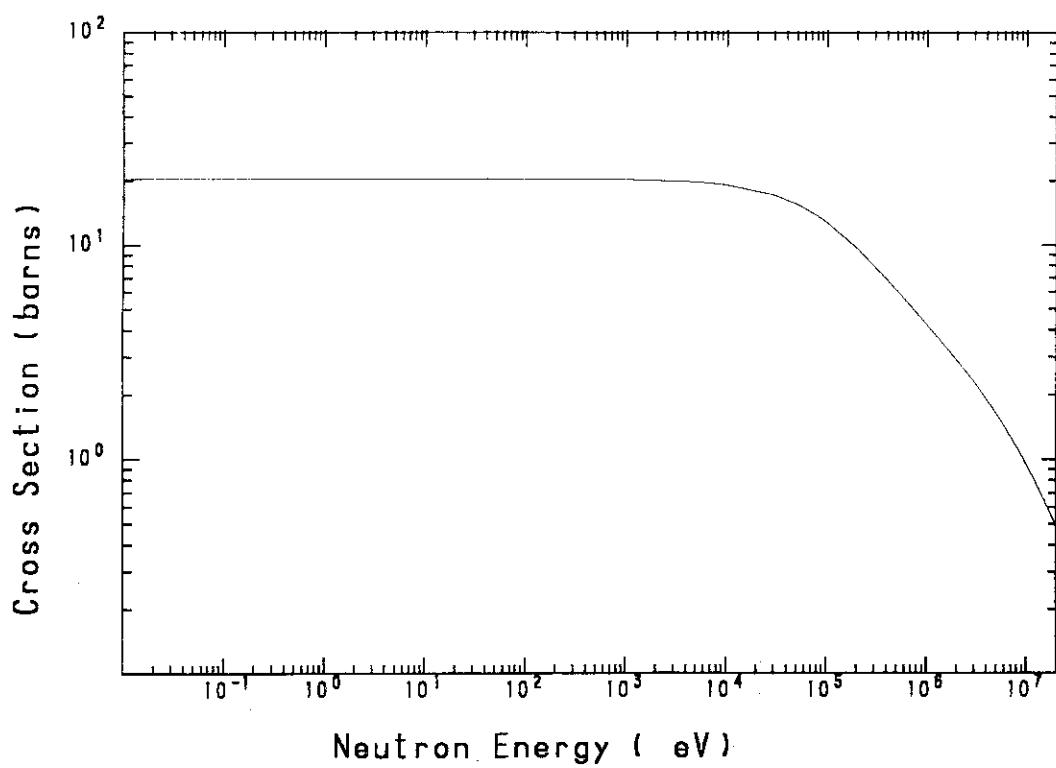
Table 1 Nuclides in JENDL-2 and their Material Number

MAT No.	MAT No.	MAT No.	MAT No.	MAT No.	MAT No.
¹ H 2011	⁵¹ V 2231	⁶³ Cu 2290	Pb 2820	²³⁶ Pu 2941	
² H 2012	^{Cr} 2240	⁶³ Cu 2291	²⁰⁴ Pb 2821	²³⁸ Pu 2942	
⁶ Li 2031	⁵⁰ Cr 2241	⁶⁵ Cu 2292	²⁰⁶ Pb 2822	²³⁹ Pu 2943	
⁷ Li 2032	⁵² Cr 2242	⁹³ Nb 2411	²⁰⁷ Pb 2823	²⁴⁰ Pu 2944	
⁹ Be 2041	⁵³ Cr 2243	Mo 2420	²⁰⁸ Pb 2824	²⁴¹ Pu 2945	
¹⁰ B 2051	⁵⁴ Cr 2244	⁹² Mo 2421	²²⁸ Th 2901	²⁴² Pu 2946	
¹² C 2061	⁵⁵ Mn 2251	⁹⁴ Mo 2422	²³⁰ Th 2902	²⁴¹ Am 2951	
¹⁹ F 2091	Fe 2260	⁹⁵ Mo 2423	²³² Th 2903	^{242g} Am 2952	
²³ Na 2111	⁵⁴ Fe 2261	⁹⁶ Mo 2424	²³³ Th 2904	^{242m} Am 2953	
²⁷ Al 2131	⁵⁶ Fe 2262	⁹⁷ Mo 2425	²³⁴ Th 2905	²⁴³ Am 2954	
Si 2140	⁵⁷ Fe 2263	⁹⁸ Mo 2426	²³³ Pa 2911	²⁴² Cm 2961	
Ca 2200	⁵⁸ Fe 2264	¹⁰⁰ Mo 2427	²³³ U 2921	²⁴³ Cm 2962	
⁴⁰ Ca 2201	⁵⁹ Co 2271	¹⁷⁴ Hf 2721	²³⁴ U 2922	²⁴⁴ Cm 2963	
⁴² Ca 2202	Ni 2280	¹⁷⁶ Hf 2722	²³⁵ U 2923	²⁴⁵ Cm 2964	
⁴³ Ca 2203	⁵⁸ Ni 2281	¹⁷⁷ Hf 2723	²³⁶ U 2924		
⁴⁴ Ca 2204	⁶⁰ Ni 2282	¹⁷⁸ Hf 2724	²³⁸ U 2925		
⁴⁶ Ca 2205	⁶¹ Ni 2283	¹⁷⁹ Hf 2725	²³⁷ Np 2931		
⁴⁸ Ca 2206	⁶² Ni 2284	¹⁸⁰ Hf 2726	²³⁹ Np 2932		
⁴⁵ Sc 2211	⁶⁴ Ni 2285	¹⁸¹ Ta 2731			



${}^1\text{H}$
TOTAL

MAT=2011
MT= 1

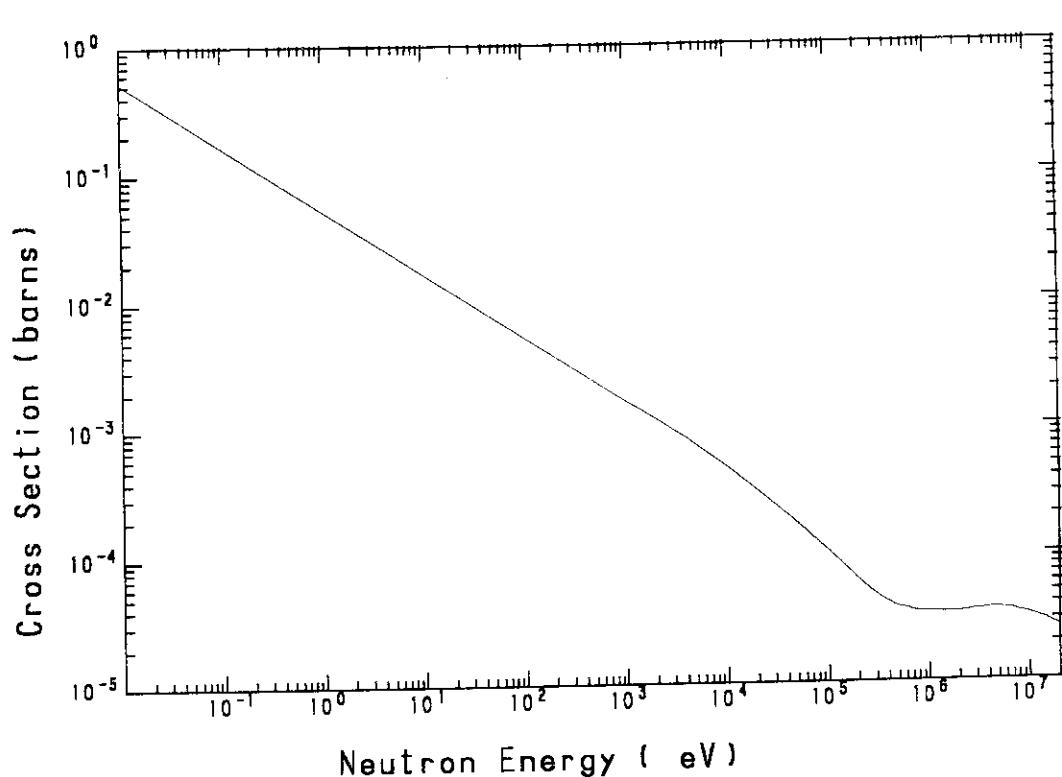


${}^1\text{H}$
(n, n)

MAT=2011
MT= 2

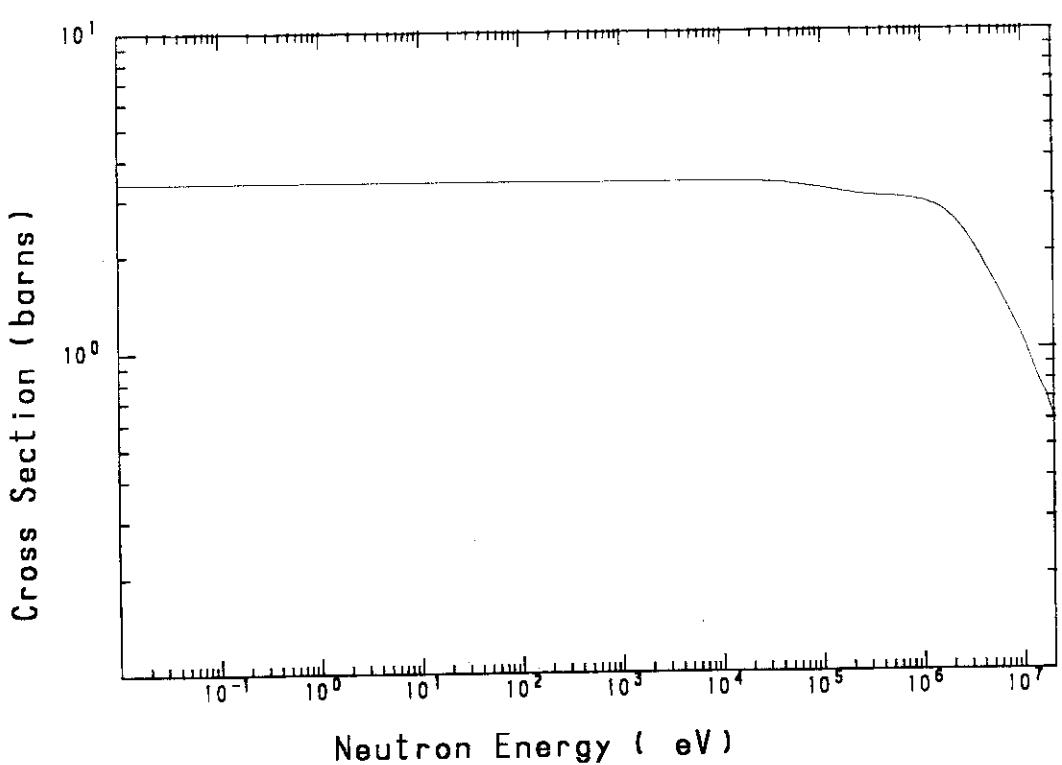
^1H
 (n, γ)

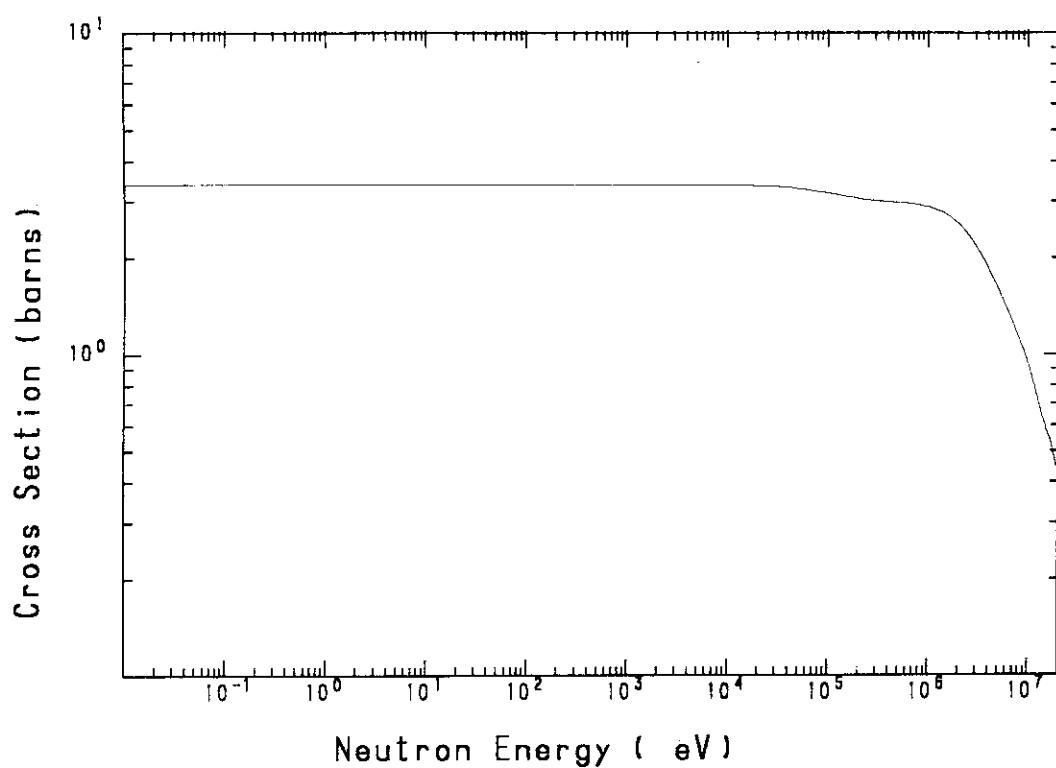
MAT=2011
MT = 102



^2D
TOTAL

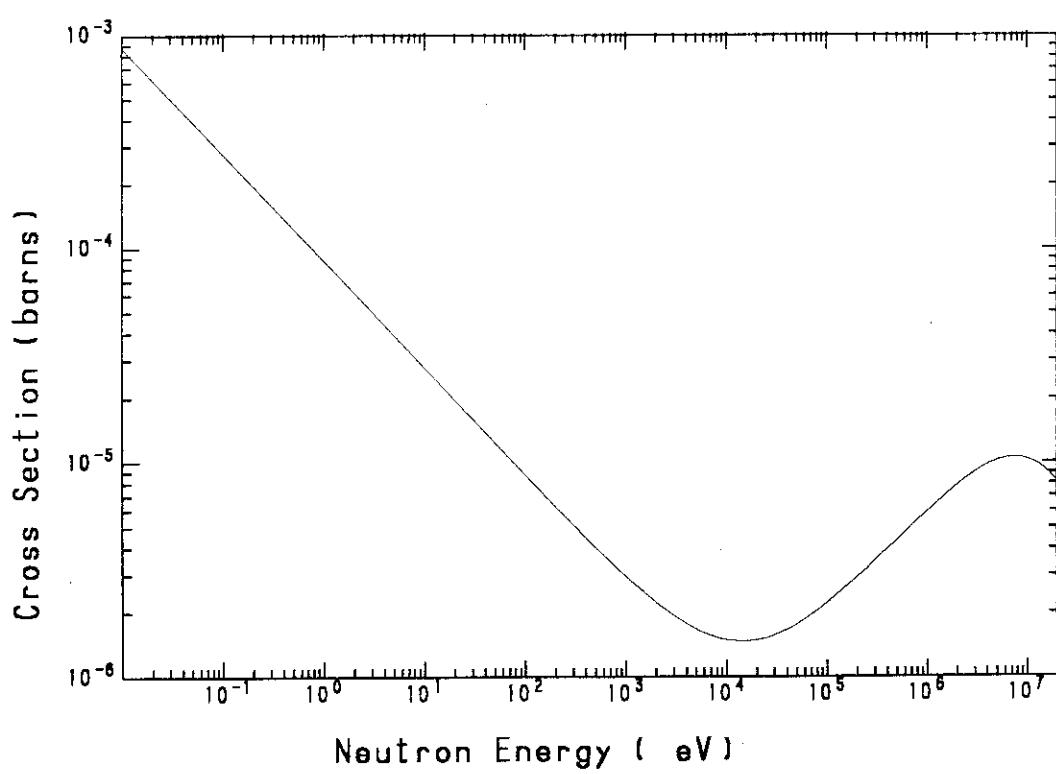
MAT=2012
MT = 1





^{2}D
(n, n)

MAT=2012
MT= 2

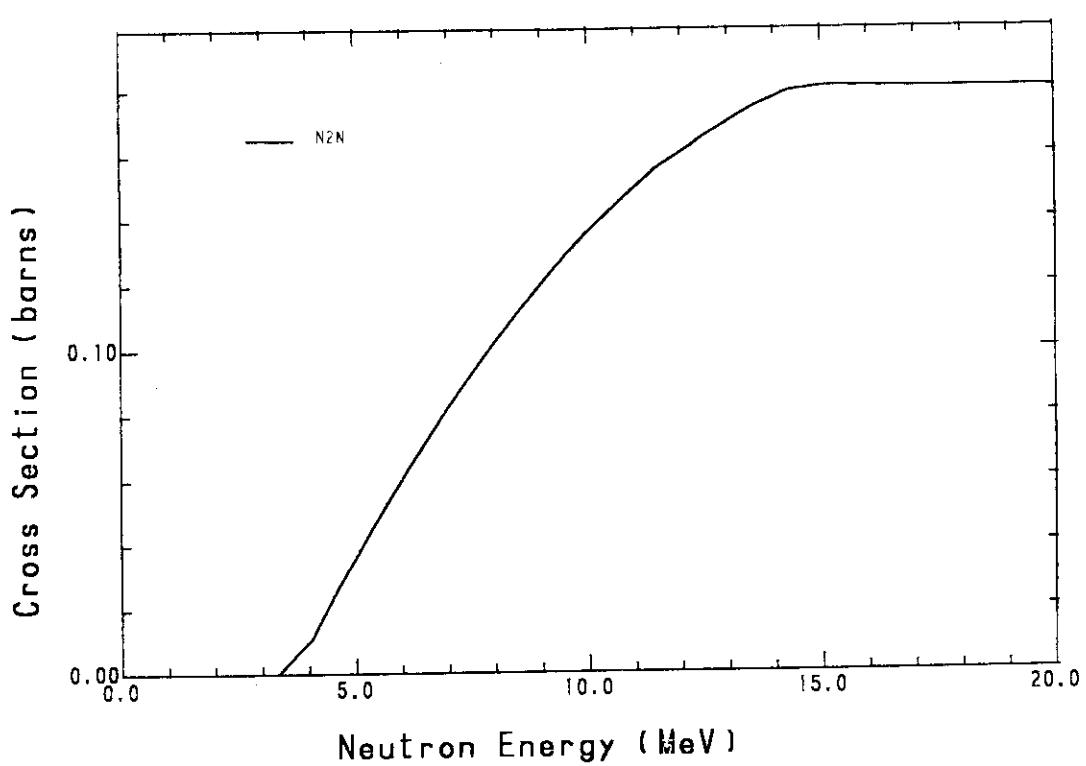


^{2}D
(n, γ)

MAT=2012
MT= 102

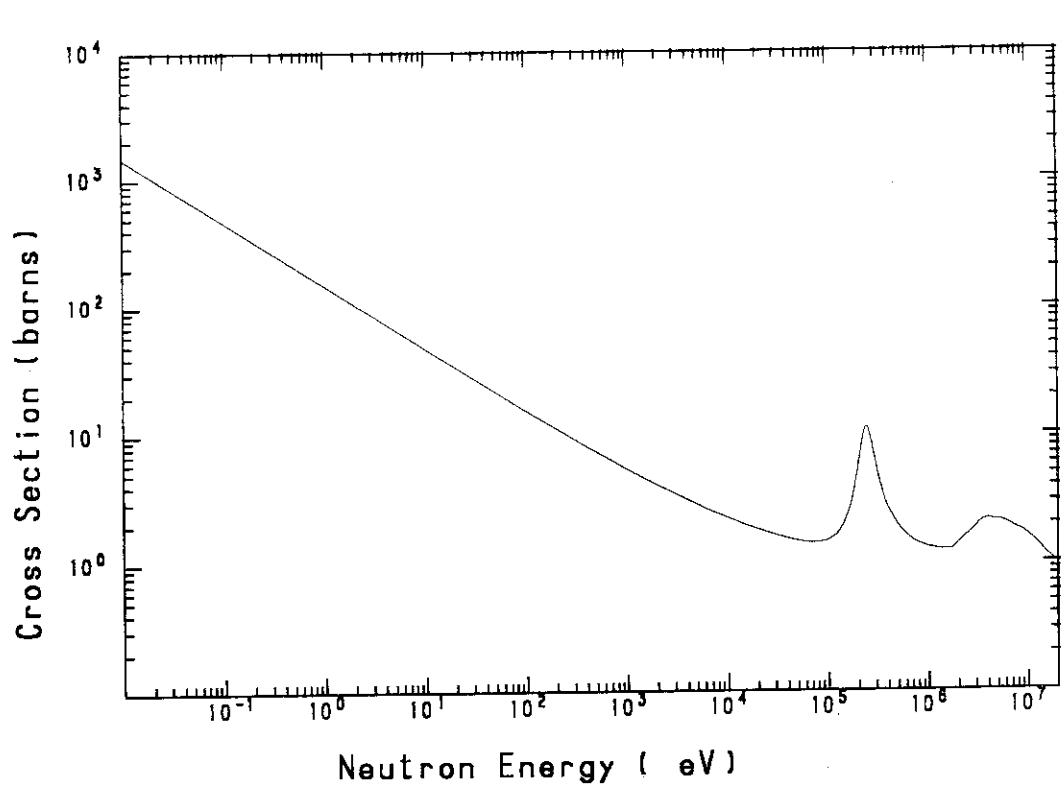
^2D
 $(n, 2n)$

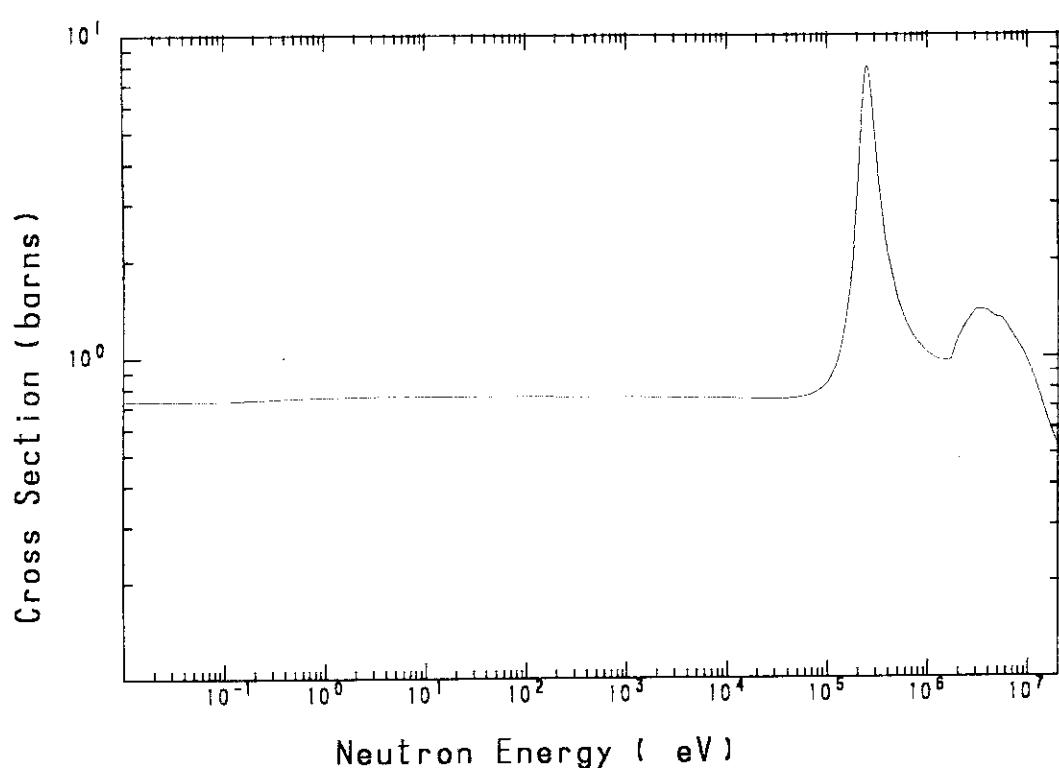
MAT=2012
MT = 16



^6Li
TOTAL

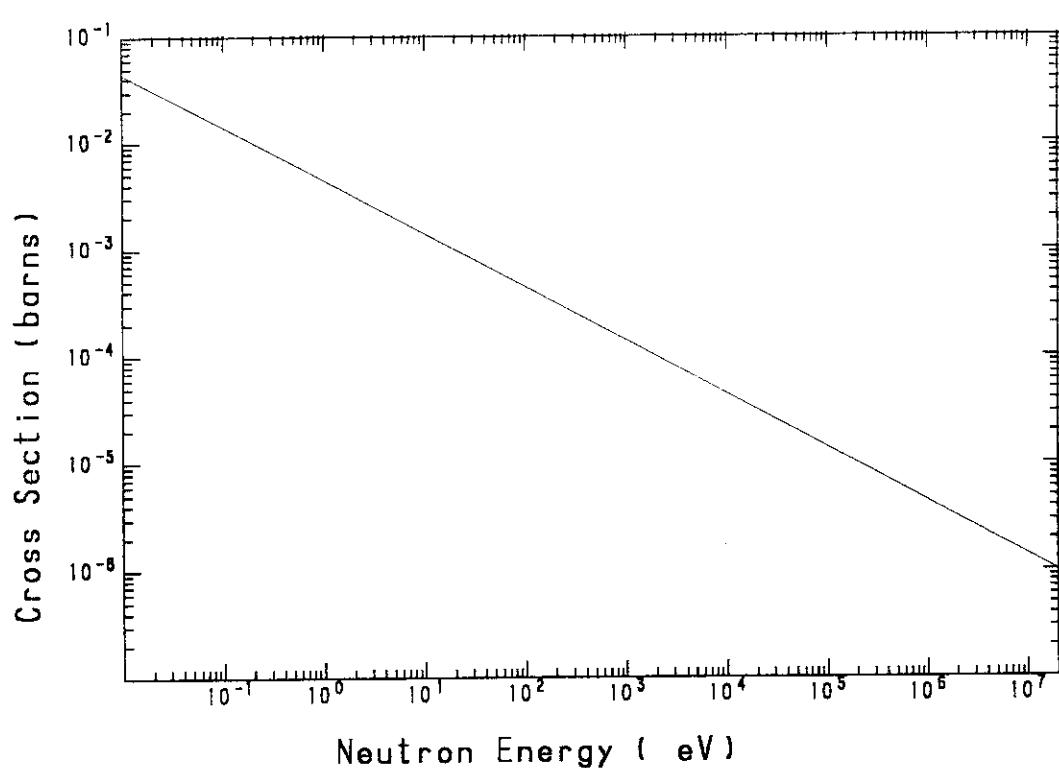
MAT=2031
MT = 1





${}^6\text{Li}$
(n, n)

MAT=2031
MT= 2

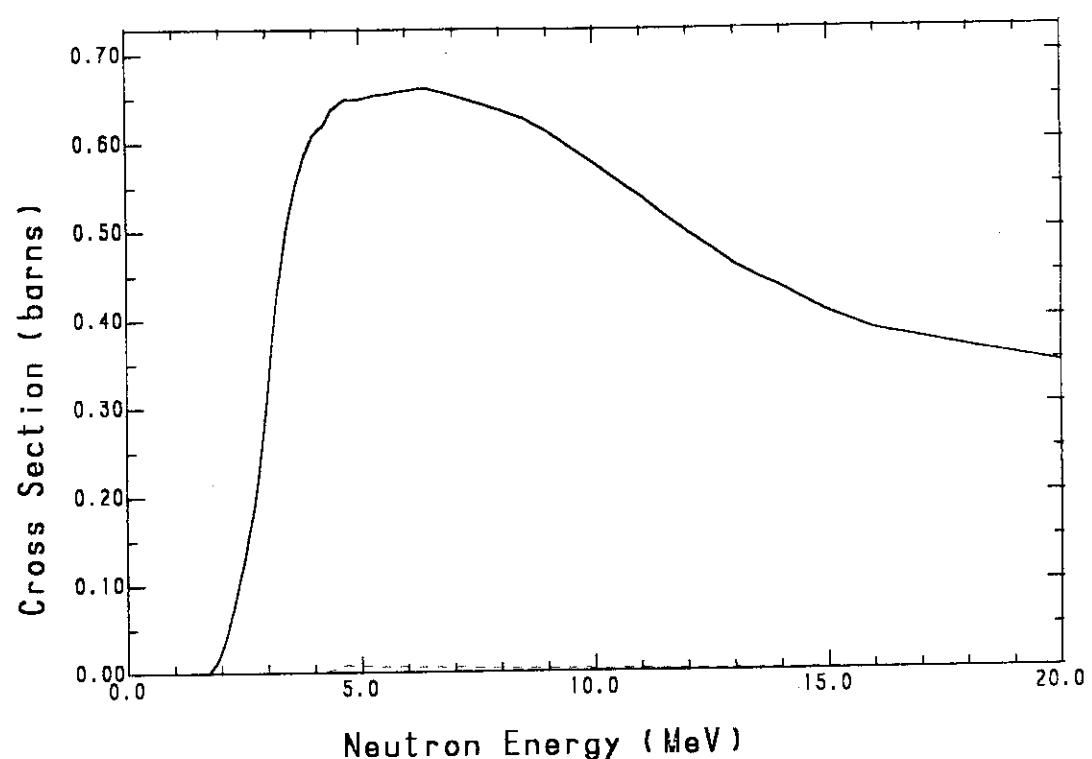


${}^6\text{Li}$
(n, γ)

MAT=2031
MT= 102

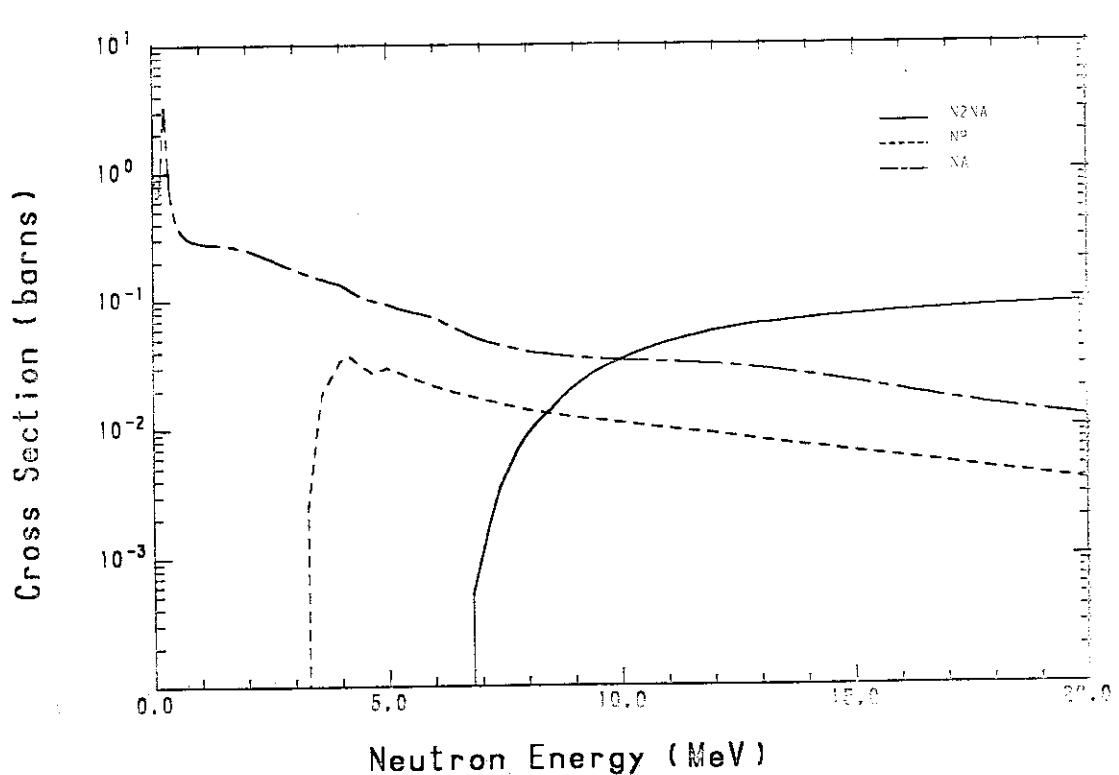
${}^6\text{Li}$
 (n, n')

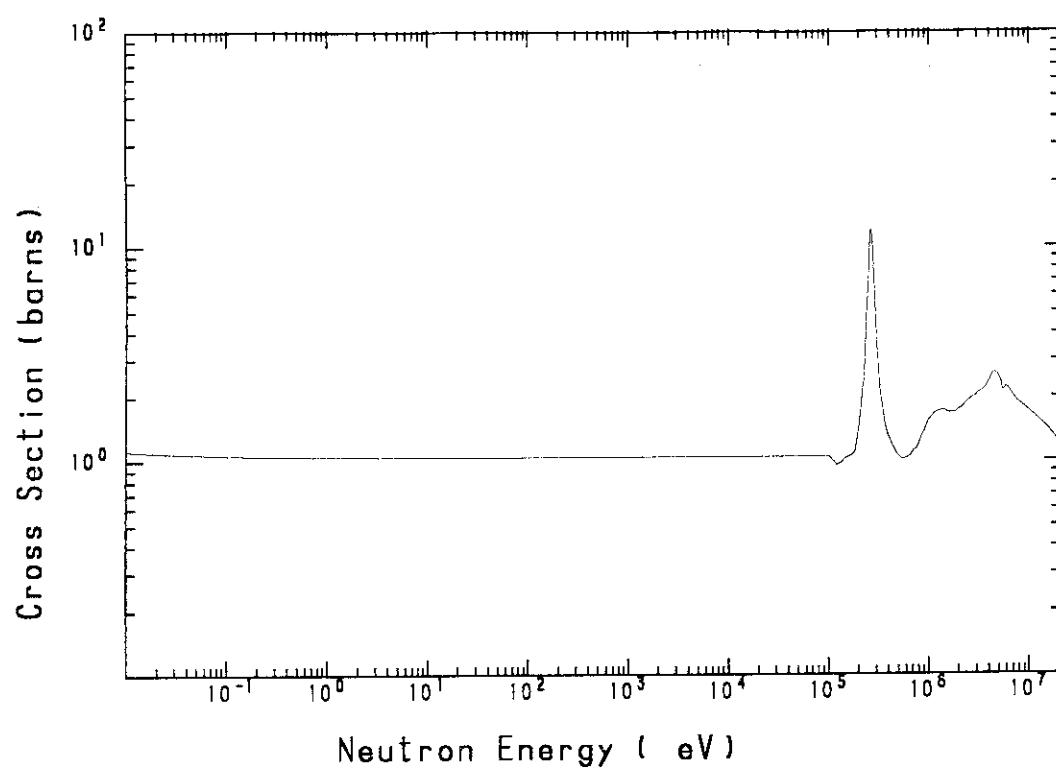
MAT=2031
MT= 4



${}^6\text{Li}$
 $(n, 2n\alpha)$
 (n, p)
 (n, α)

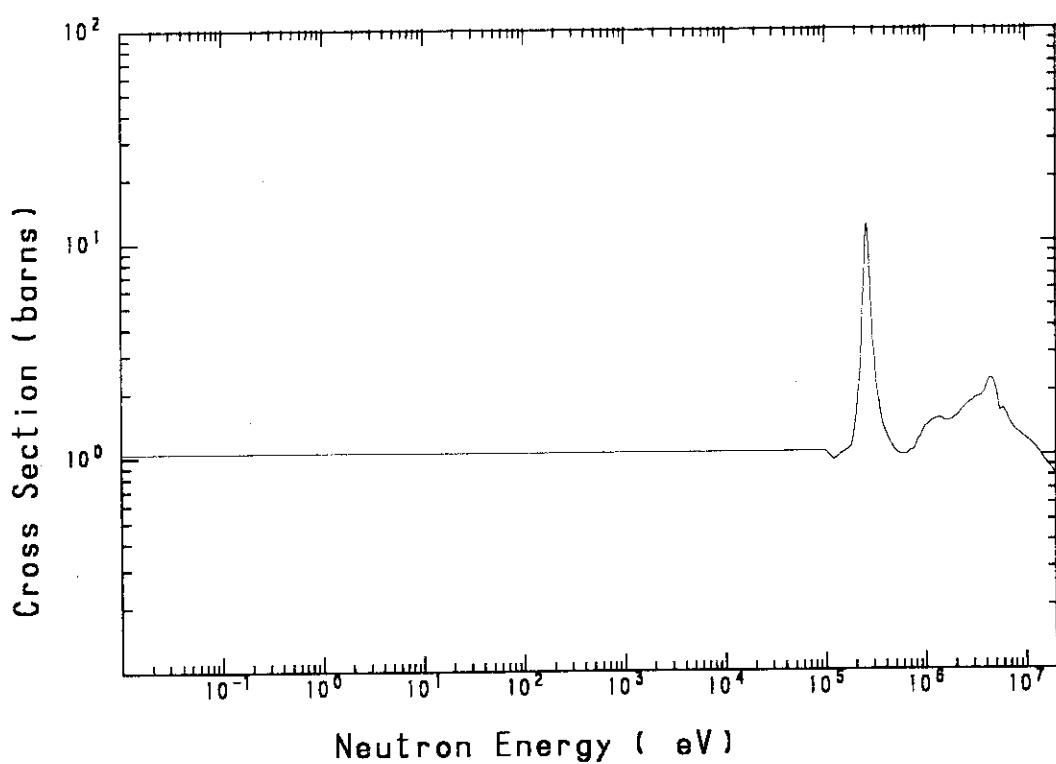
MAT=2031
MT= 24
103
107





${}^7\text{Li}$
TOTAL

MAT=2032
MT= 1

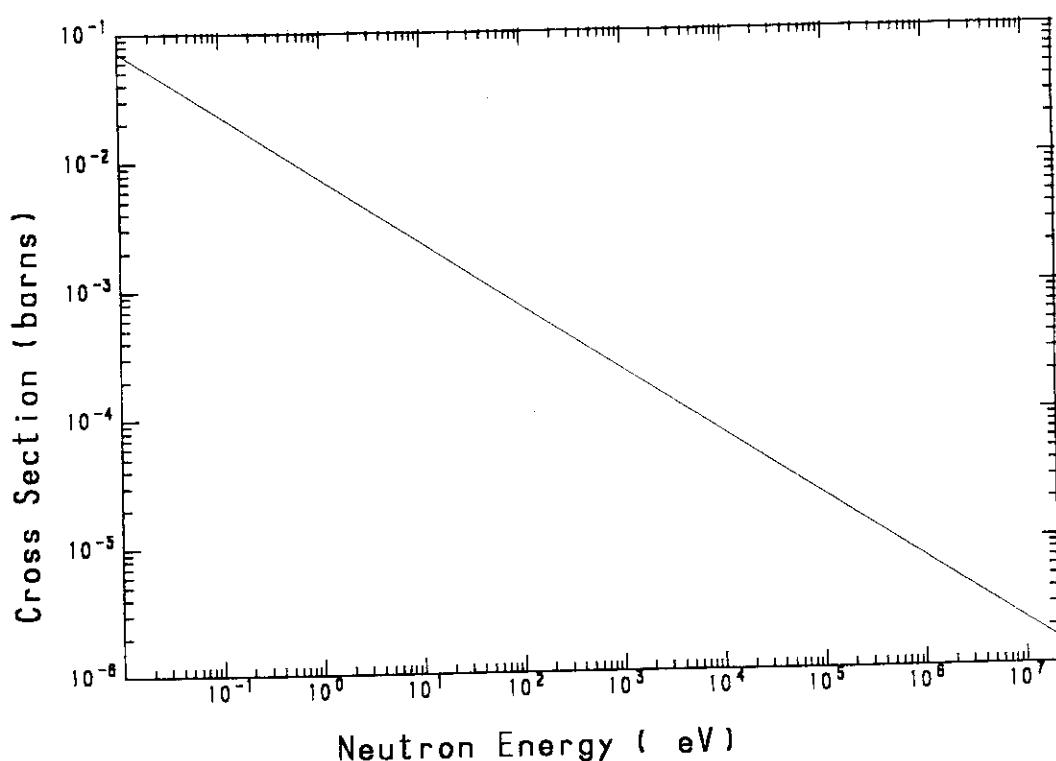


${}^7\text{Li}$
(n, n)

MAT=2032
MT= 2

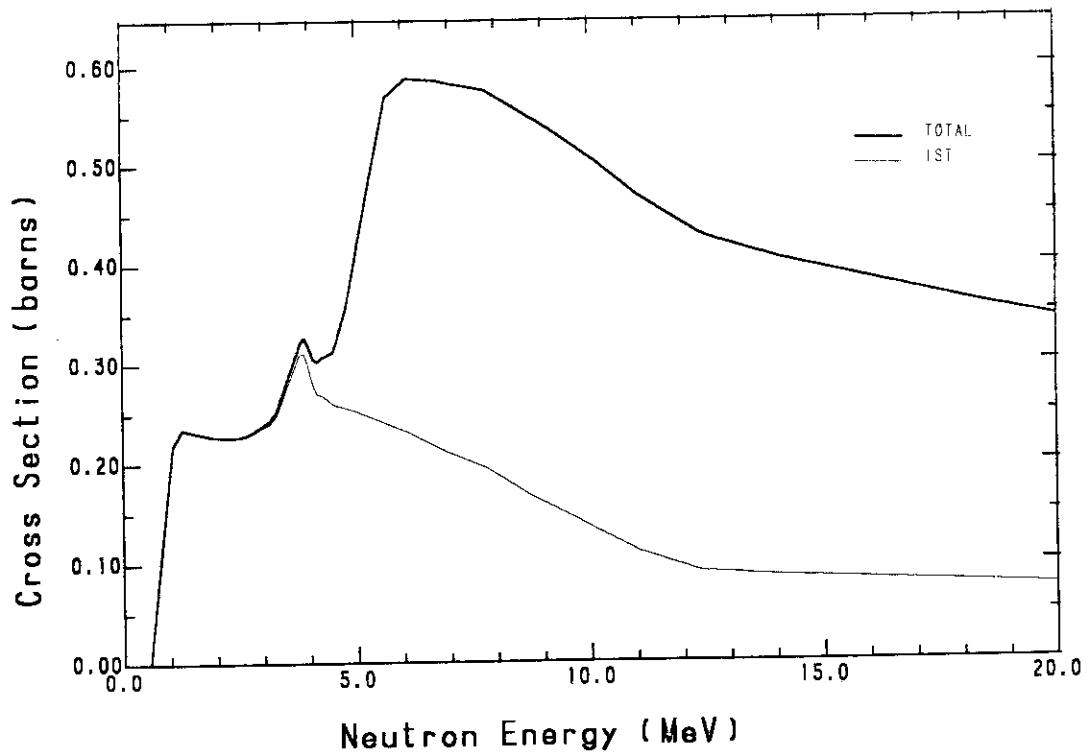
^7Li
 (n, γ)

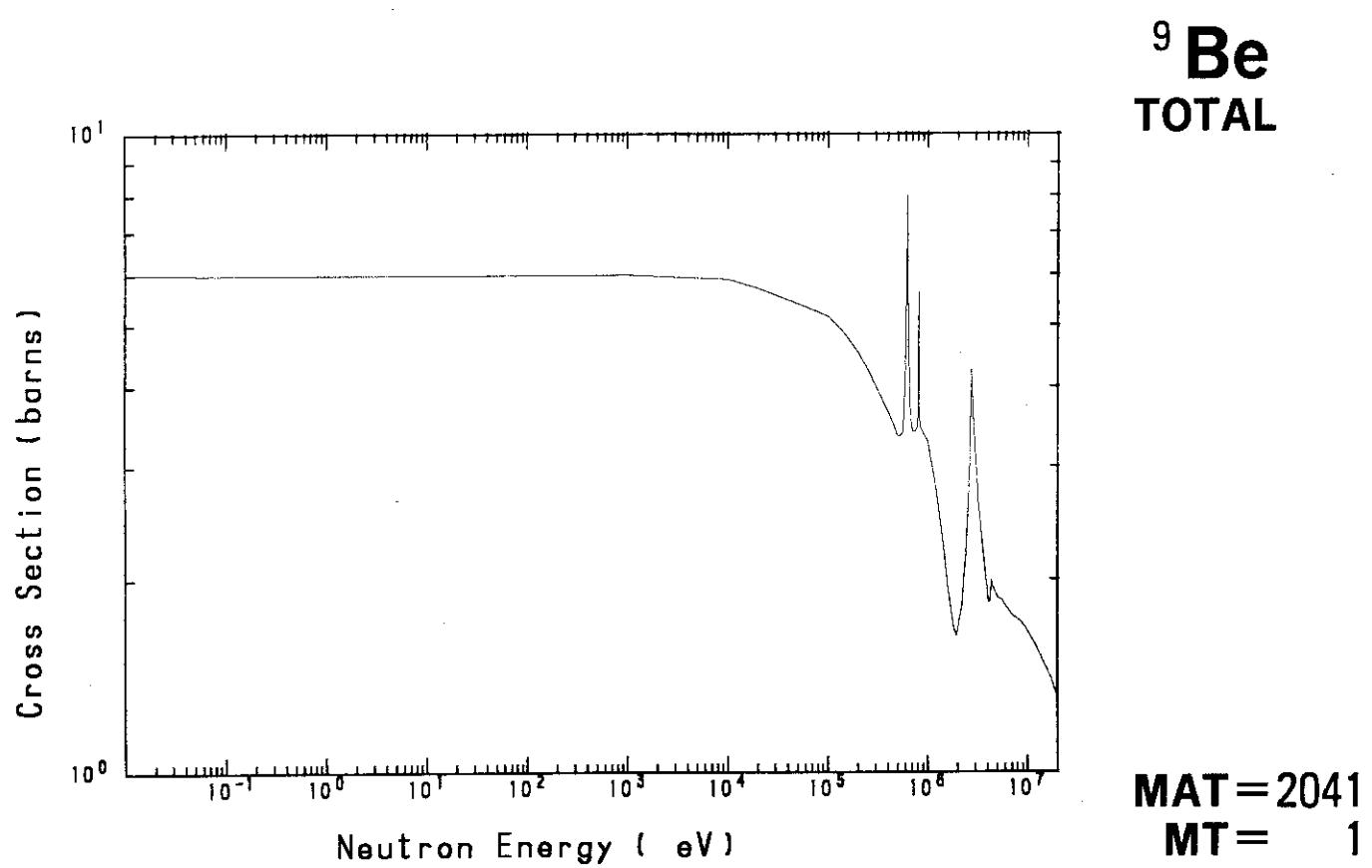
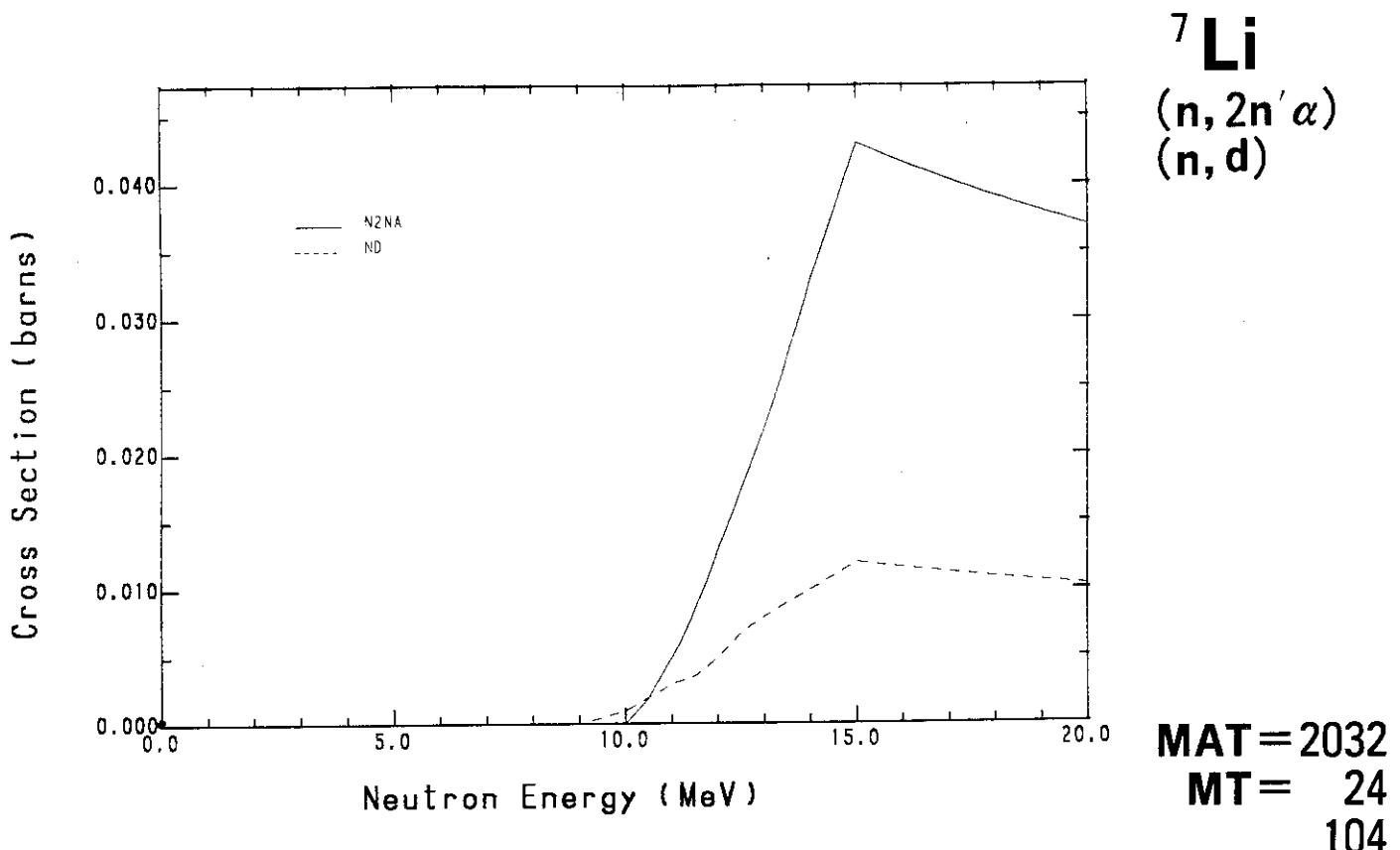
MAT=2032
MT = 102



^7Li
 (n, n')

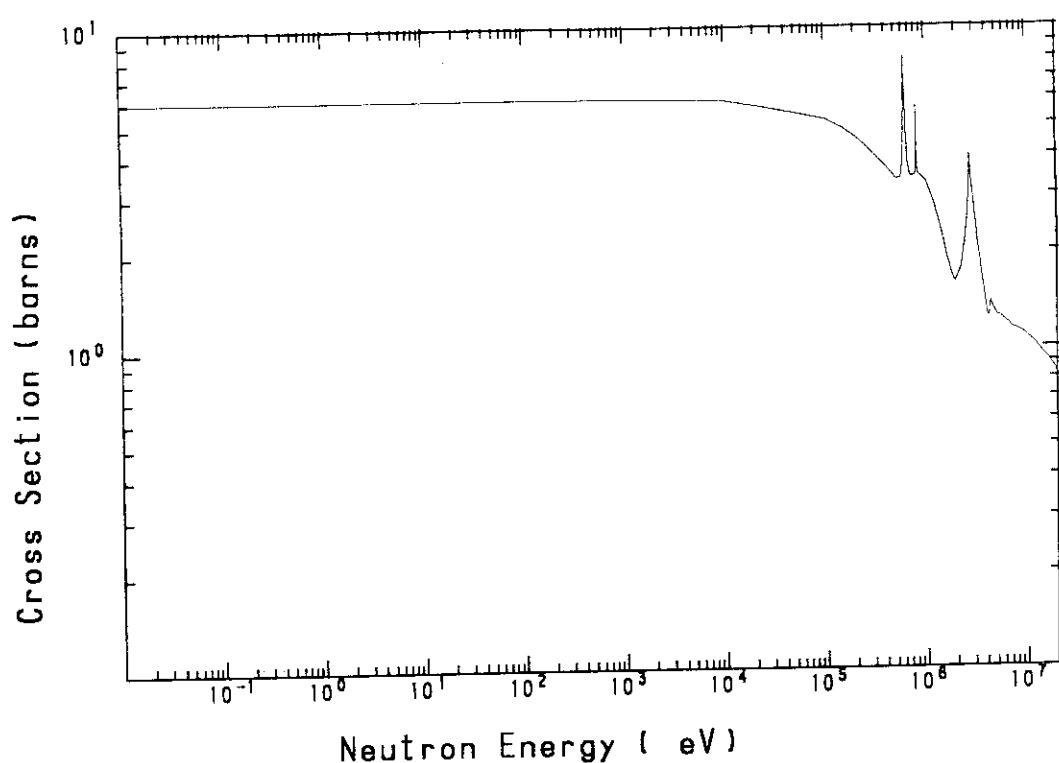
MAT=2032
MT = 4
51





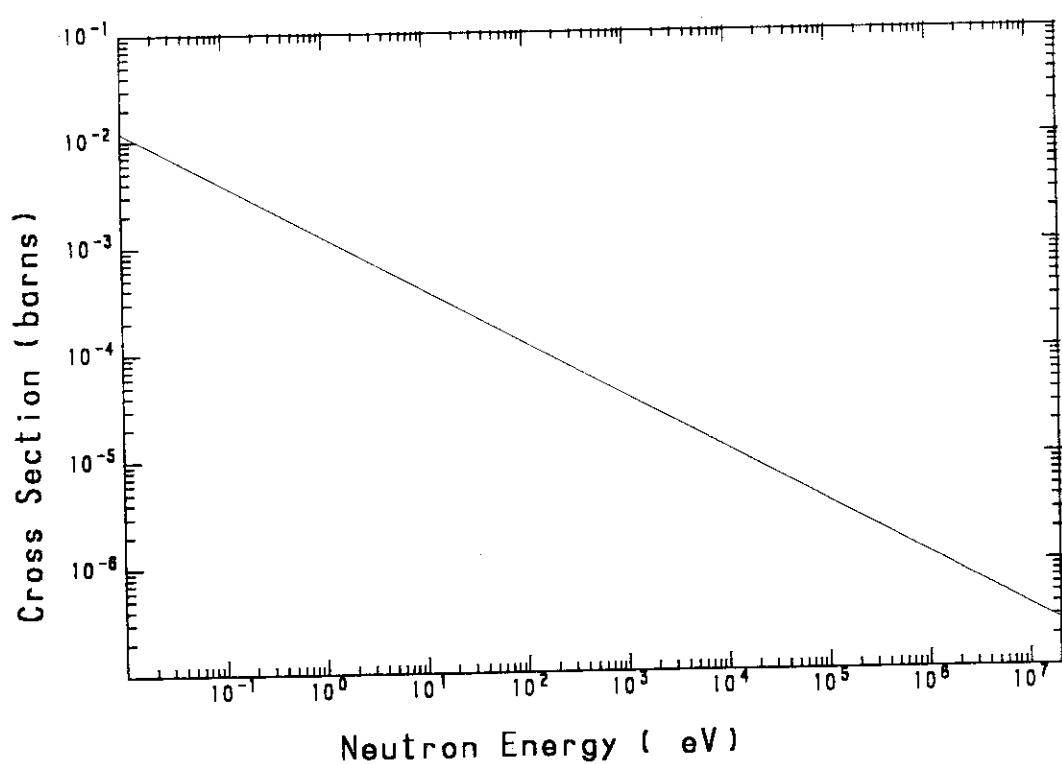
${}^9\text{Be}$
(n, n)

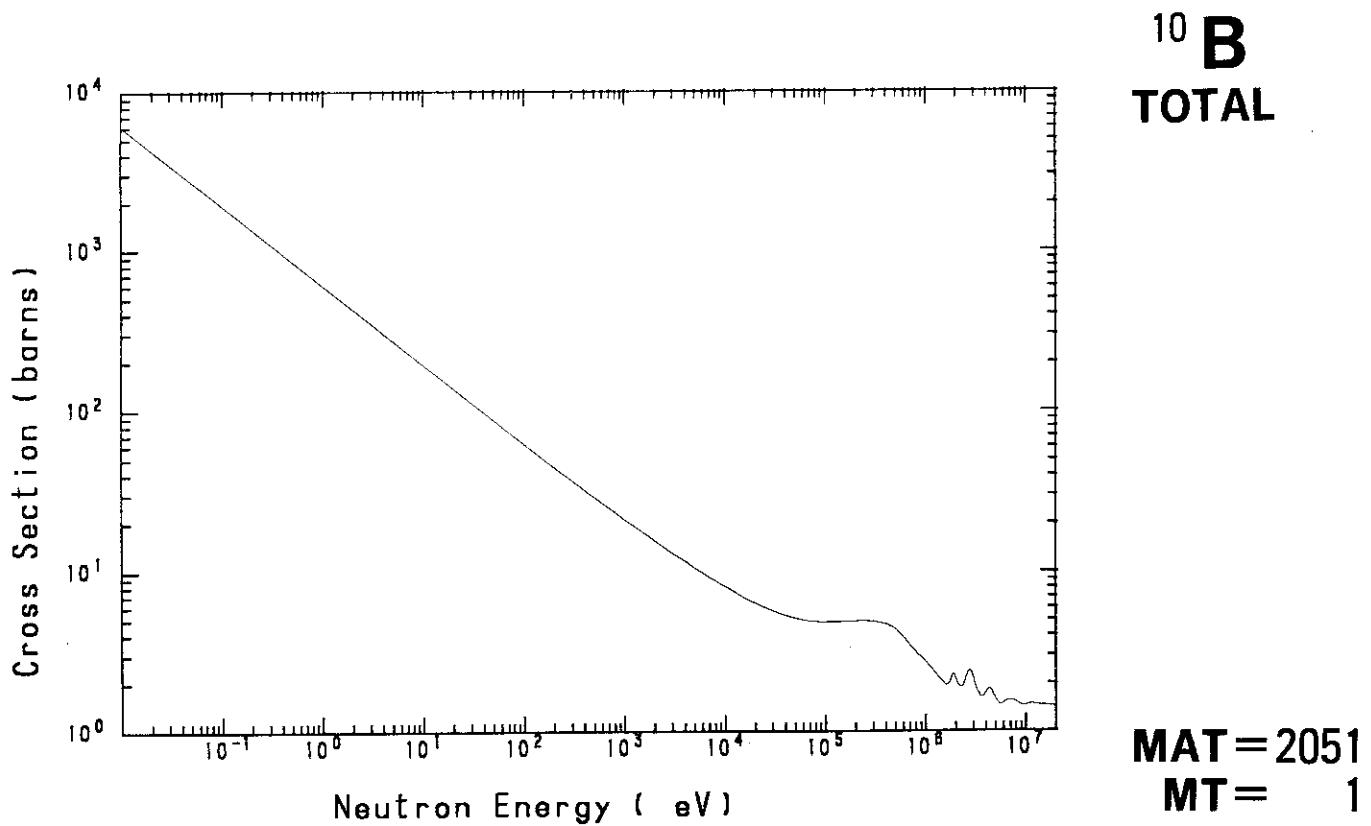
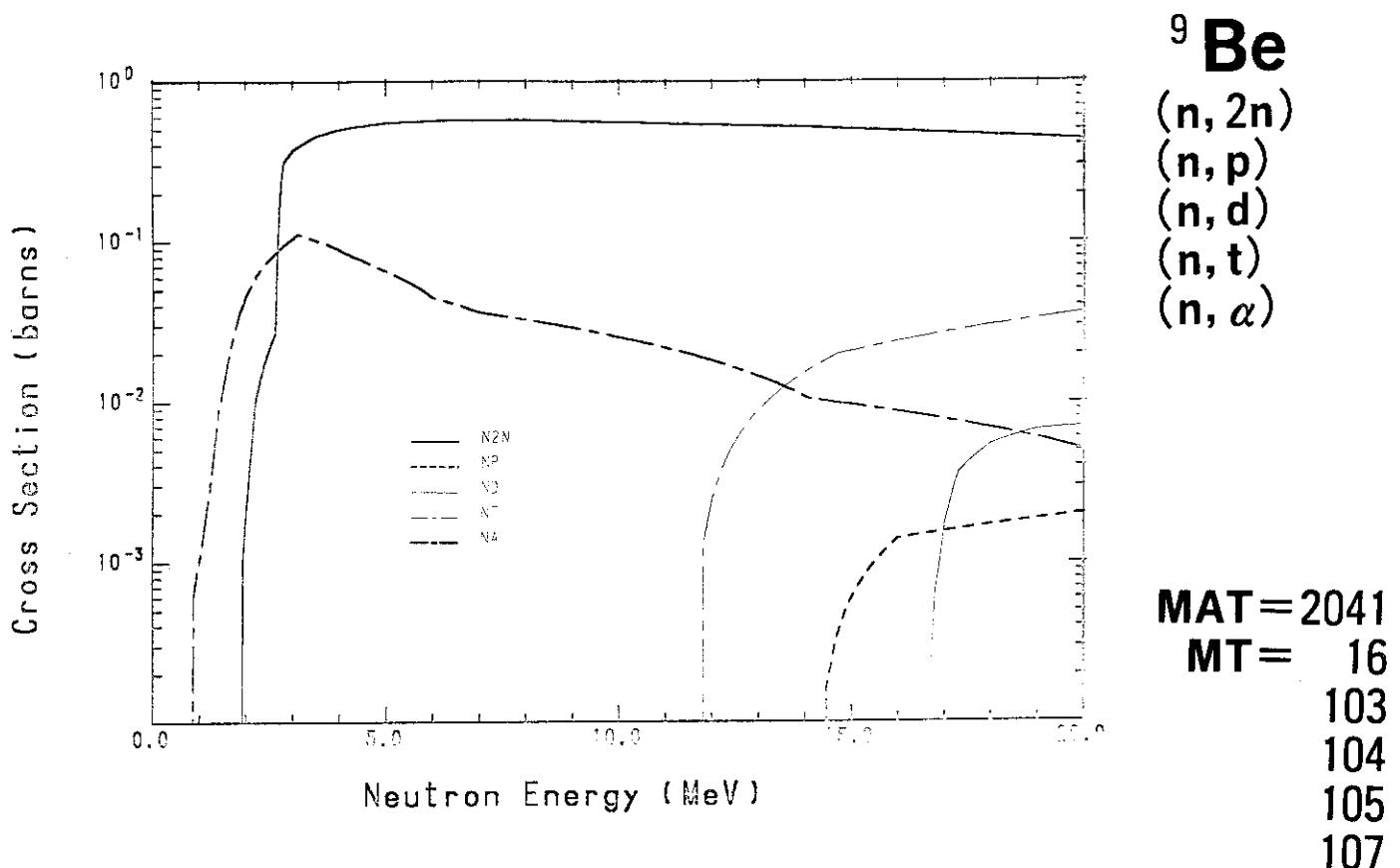
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MT= 2

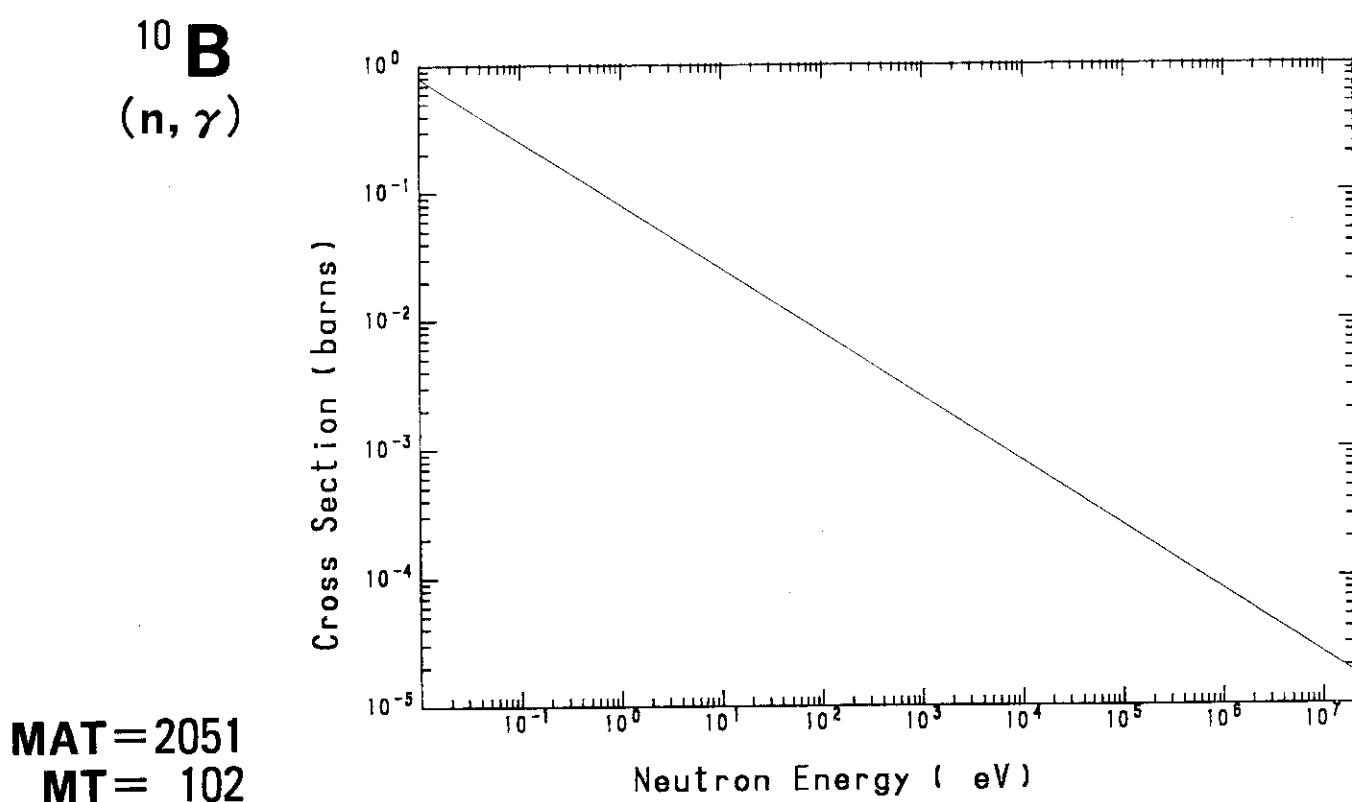
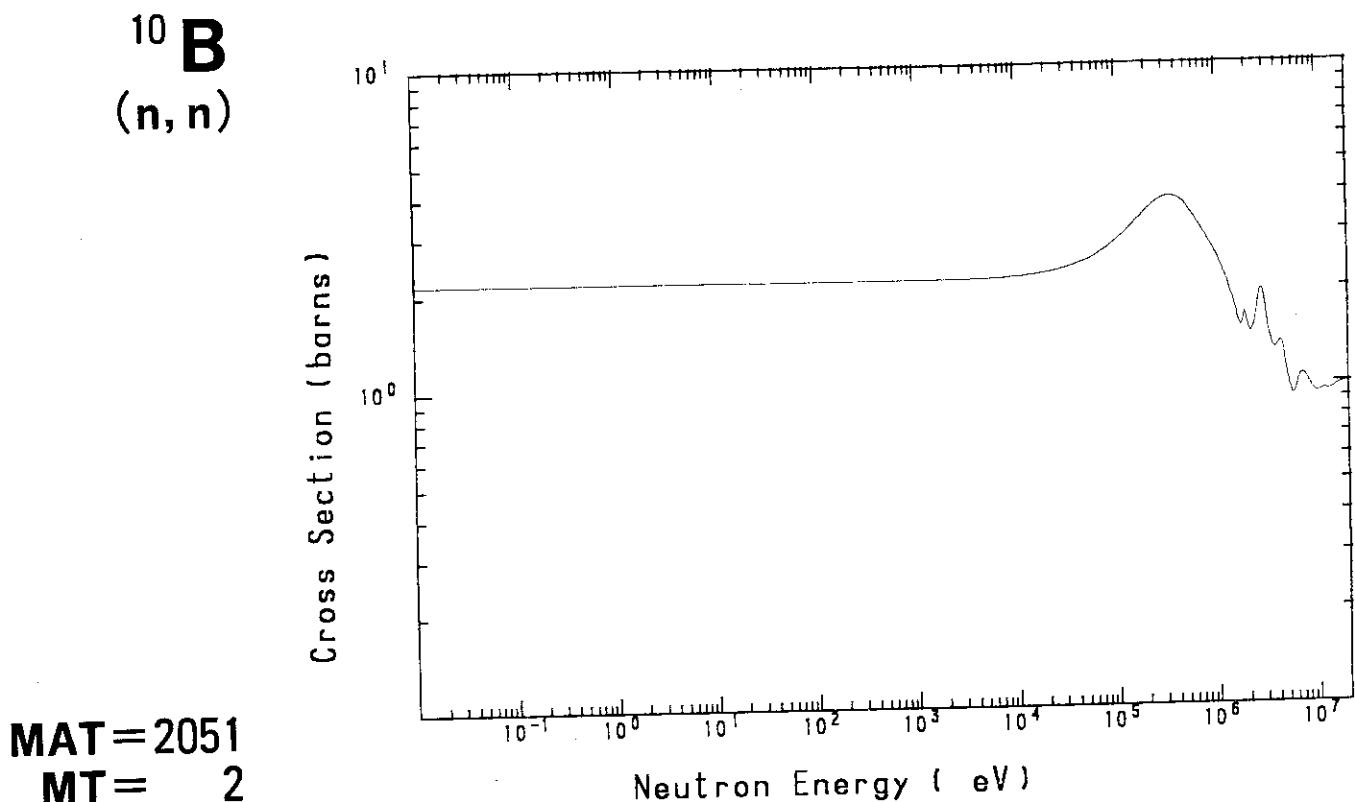


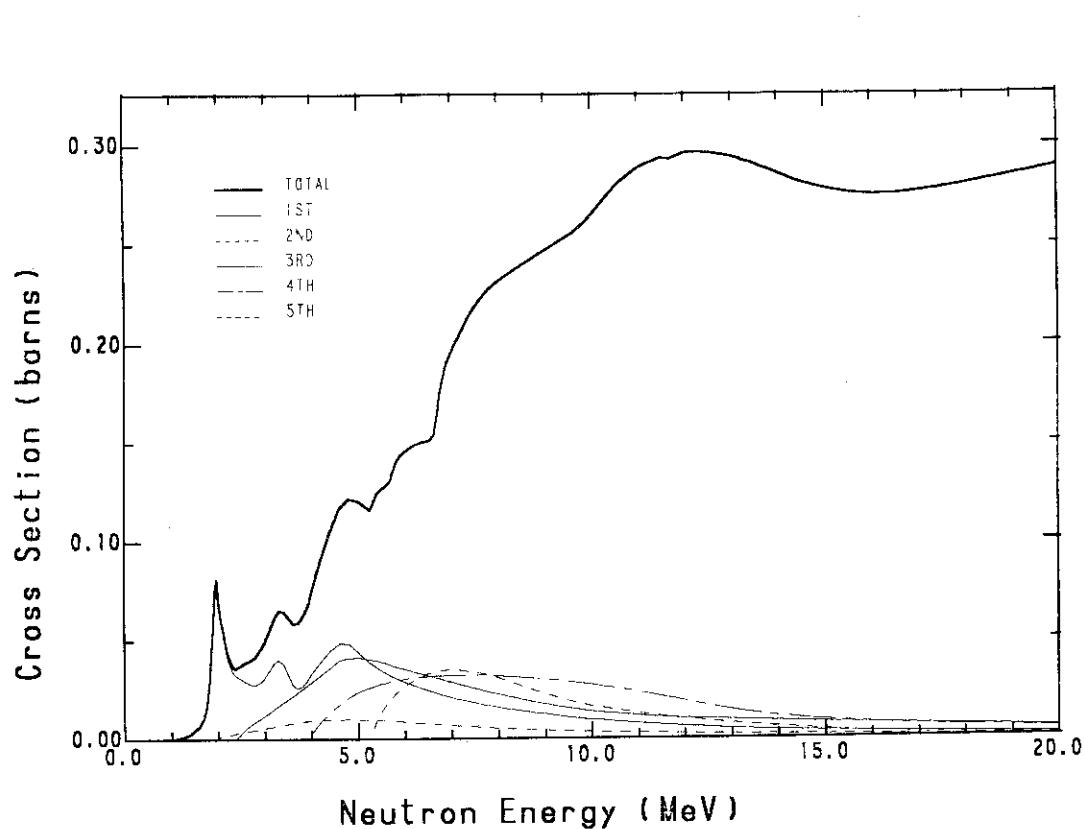
${}^9\text{Be}$
(n, γ)

MAT=2041
MT = 102

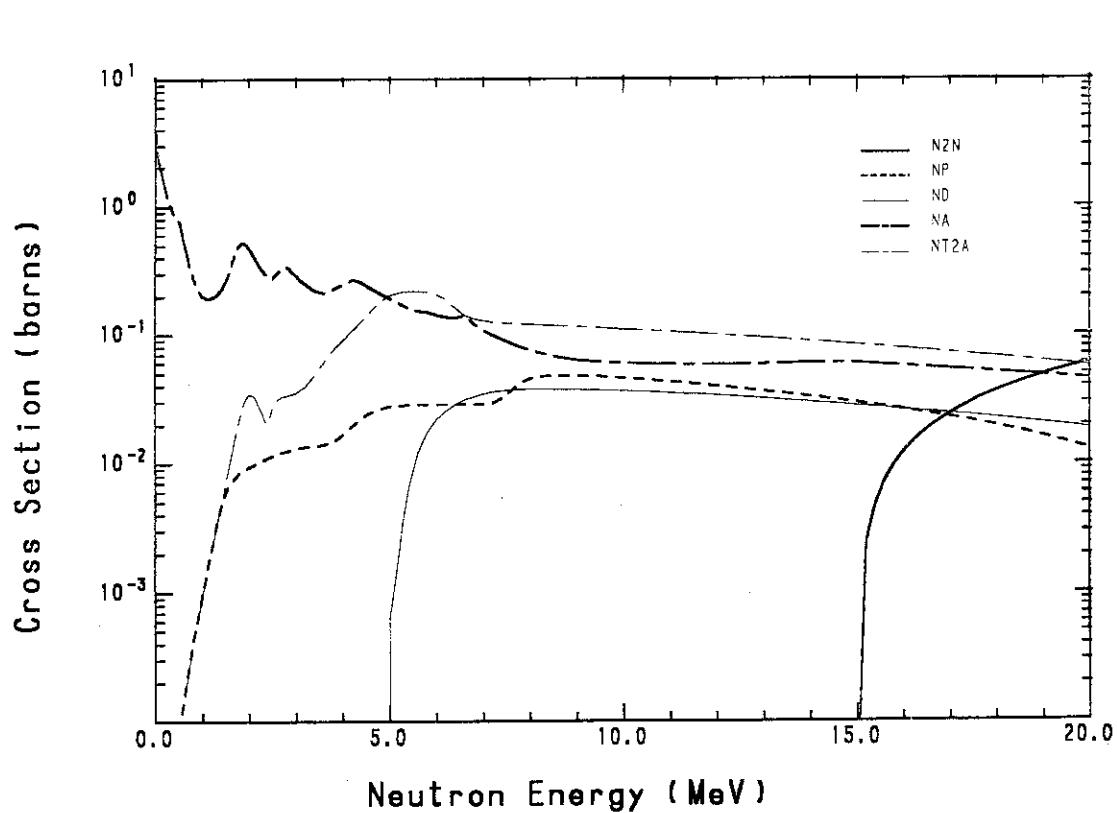








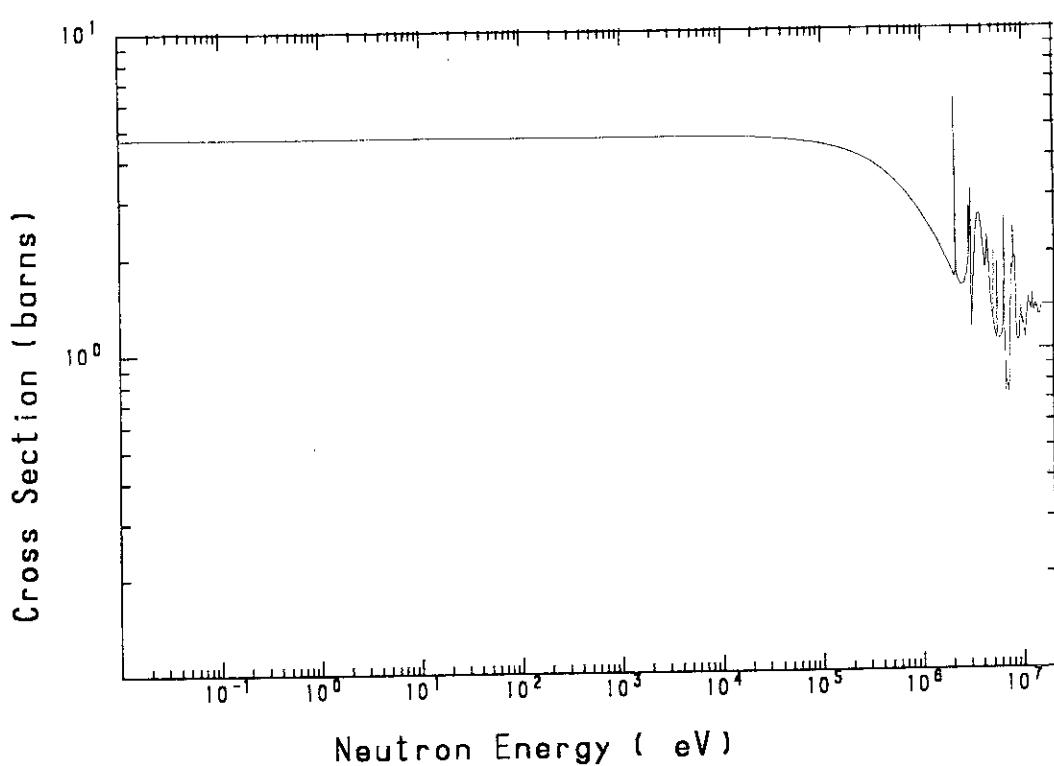
MAT=2051
MT= 4
51~55



MAT=2051
MT= 16
103
104
107
113

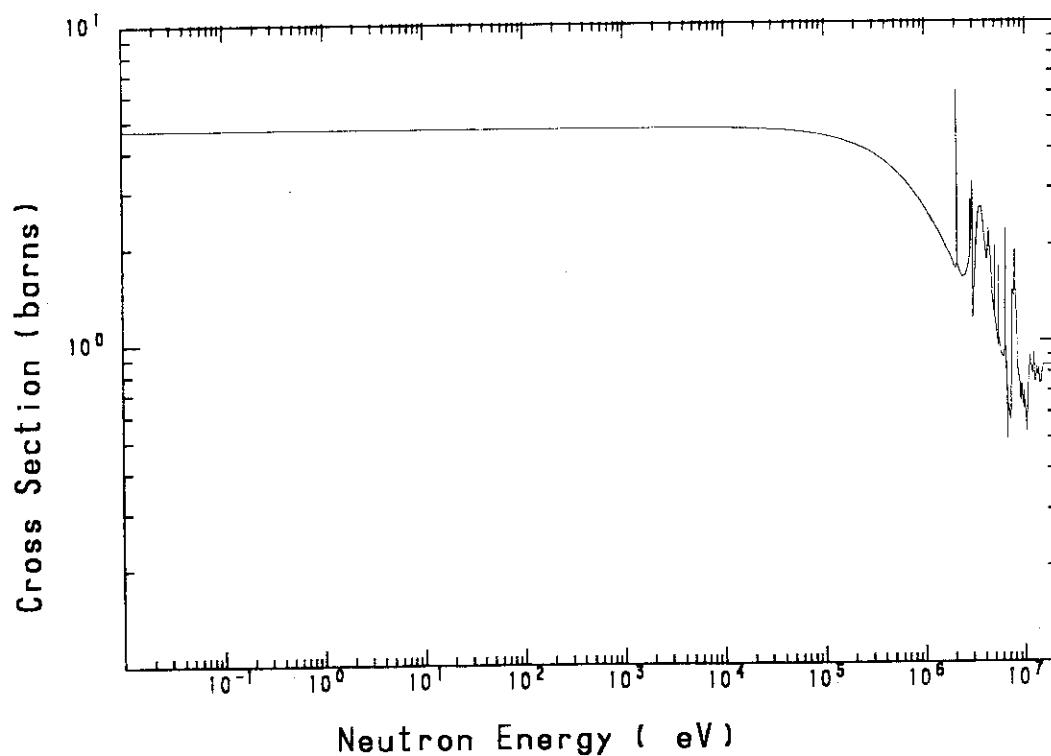
^{12}C
TOTAL

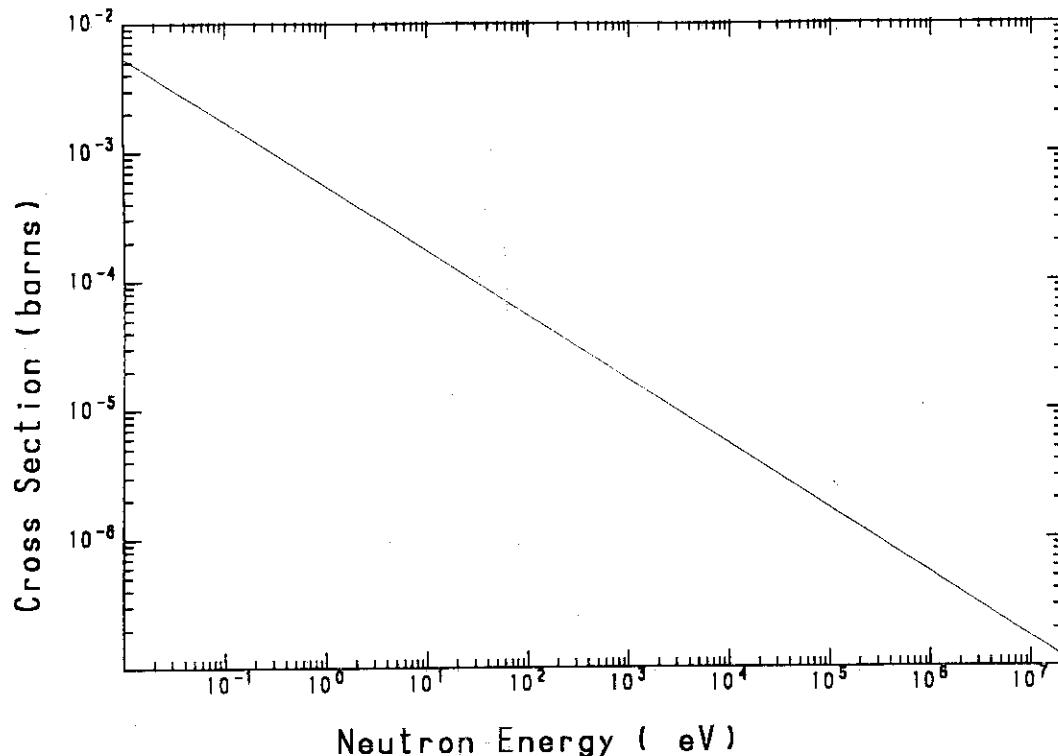
MAT=2061
MT= 1



^{12}C
(n, n)

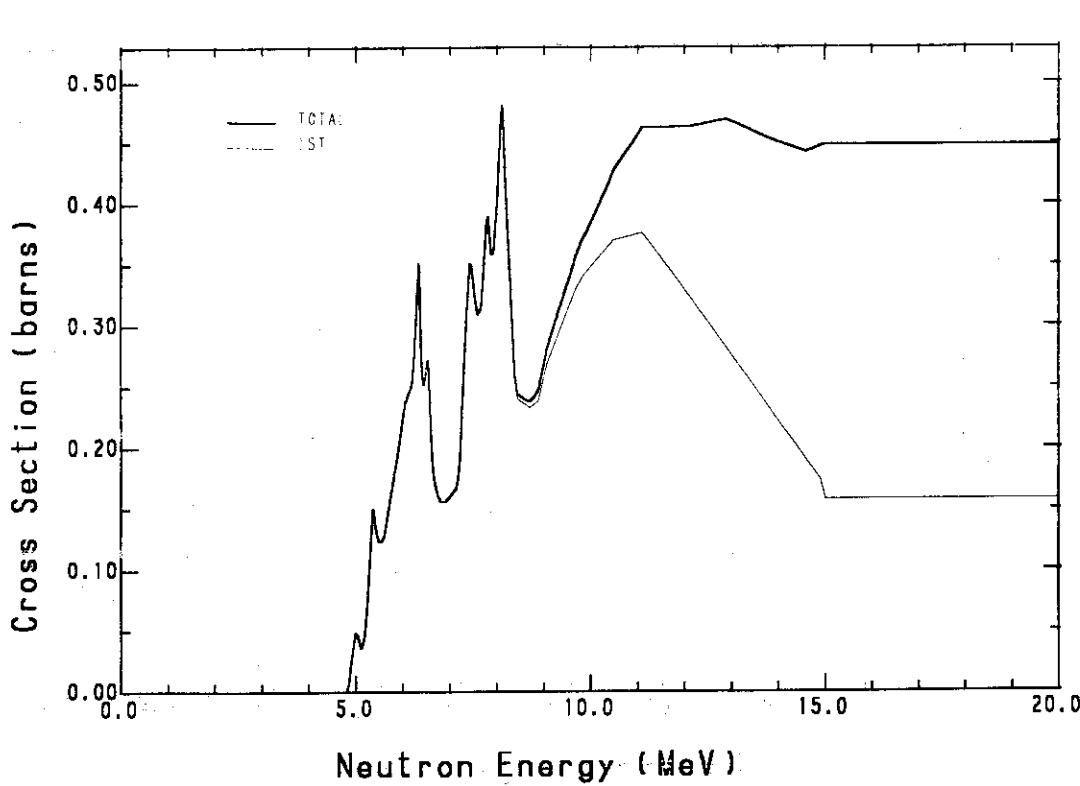
MAT=2061
MT= 2





^{12}C
(n, γ)

MAT=2061
MT= 102

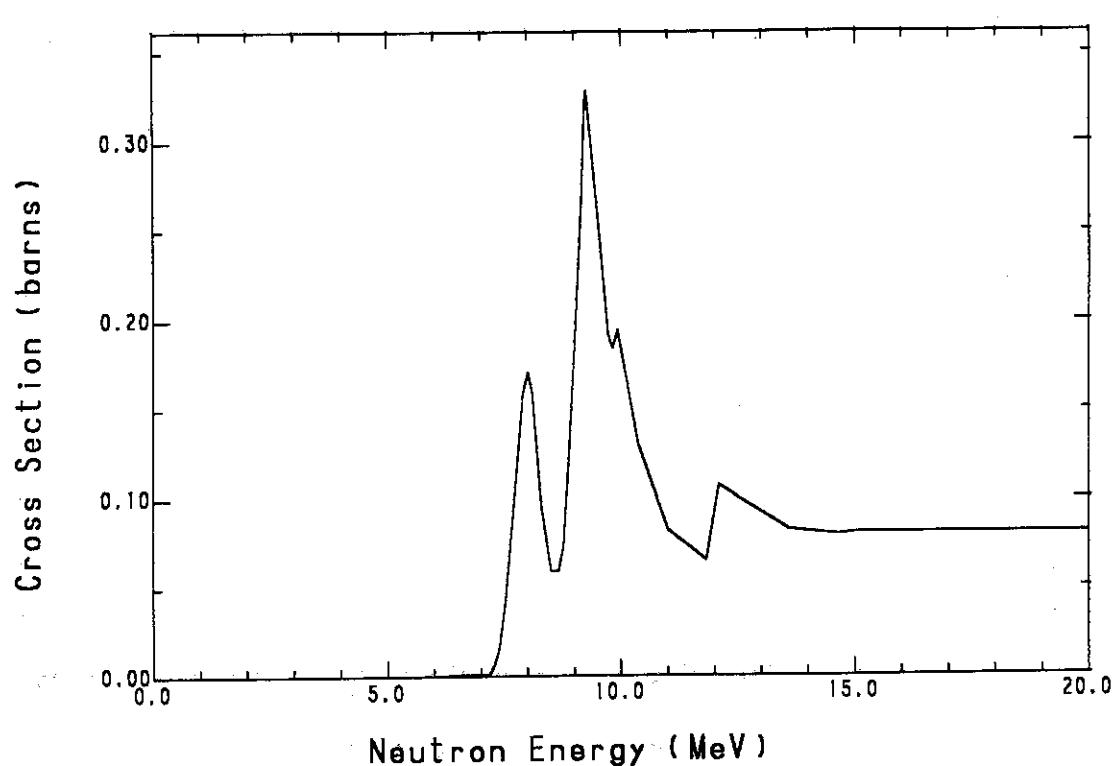


^{12}C
(n, n')

MAT=2061
MT= 4
51

^{12}C
 (n, α)

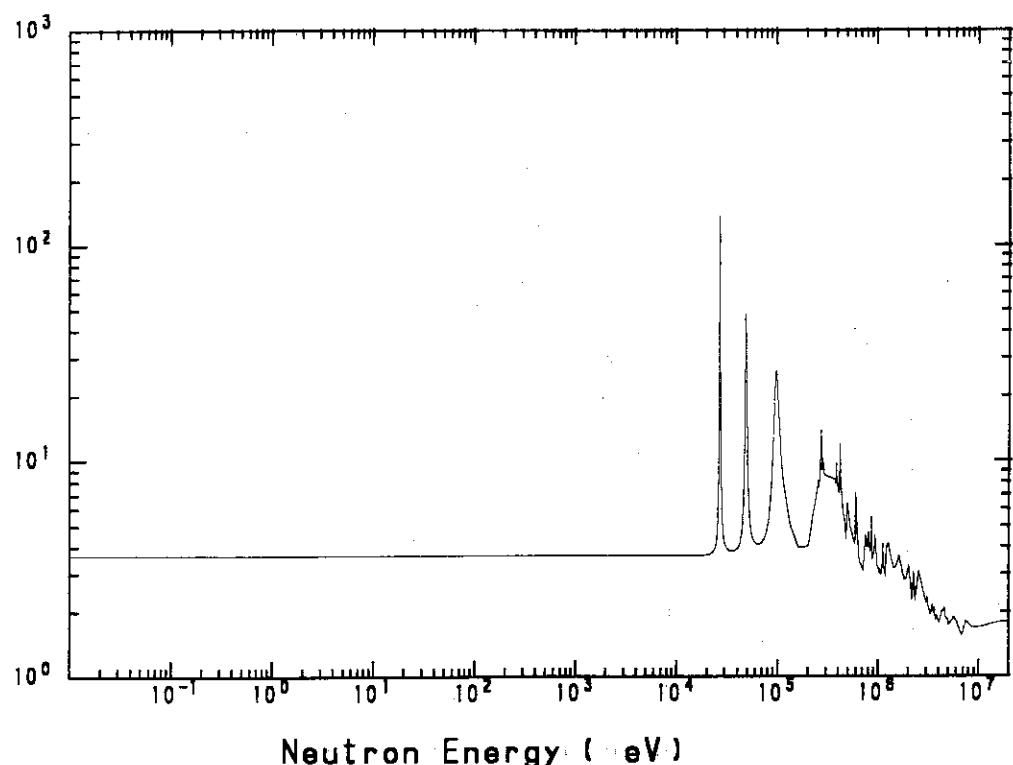
MAT = 2061
MT = 107

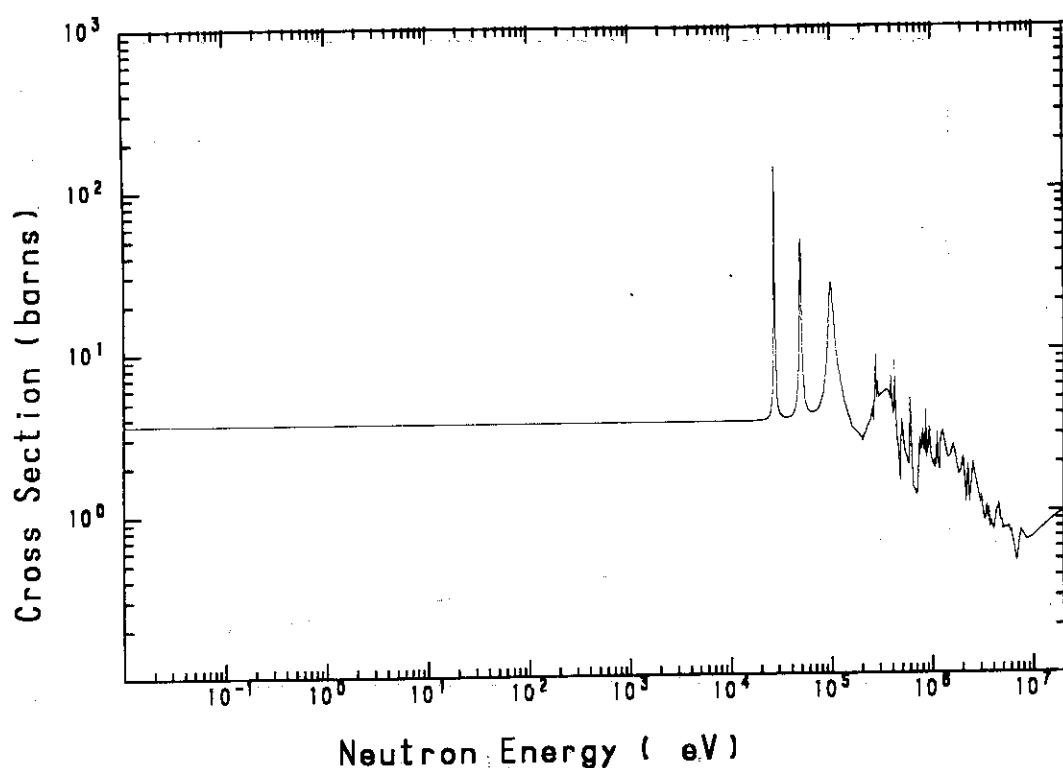


^{19}F
TOTAL

MAT = 2091
MT = 1

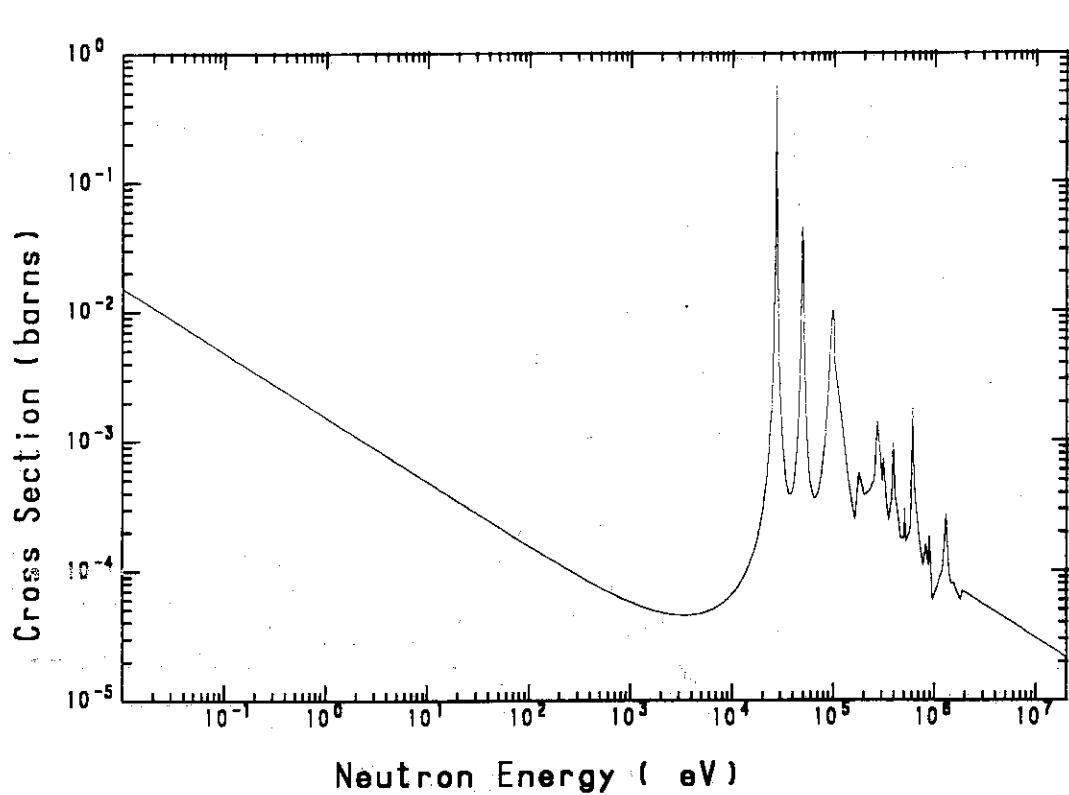
Cross Section (barns)





^{19}F
(n, n)

MAT=2091
MT= 2

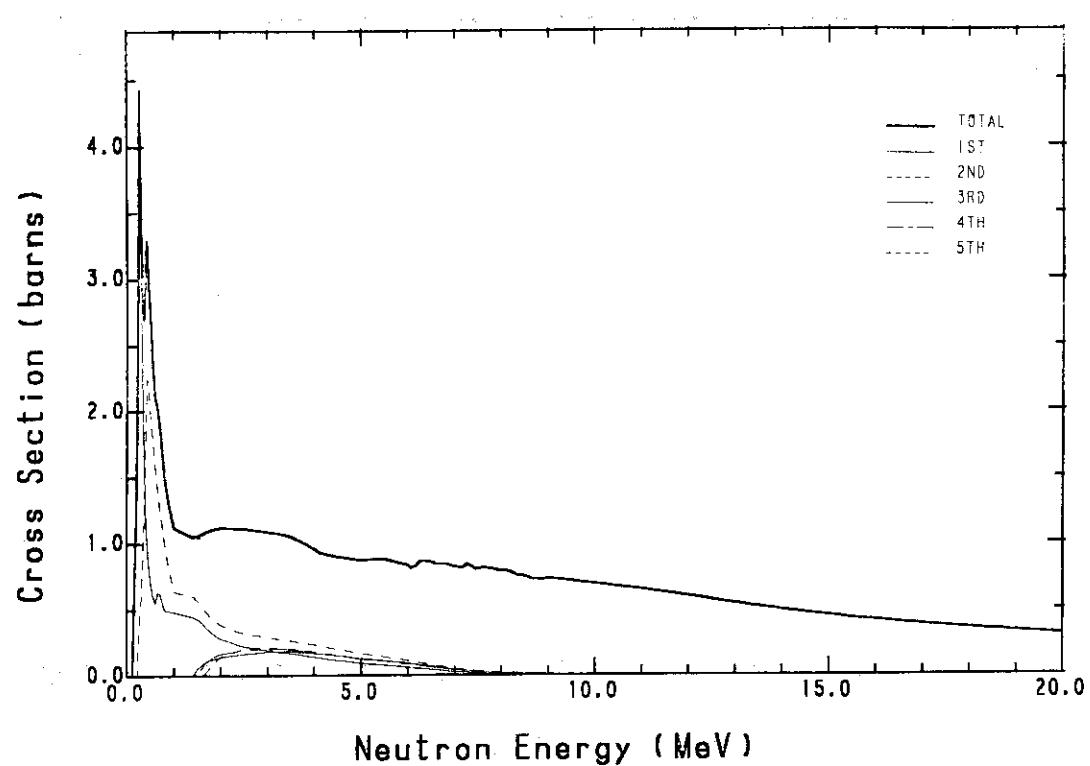


^{19}F
(n, γ)

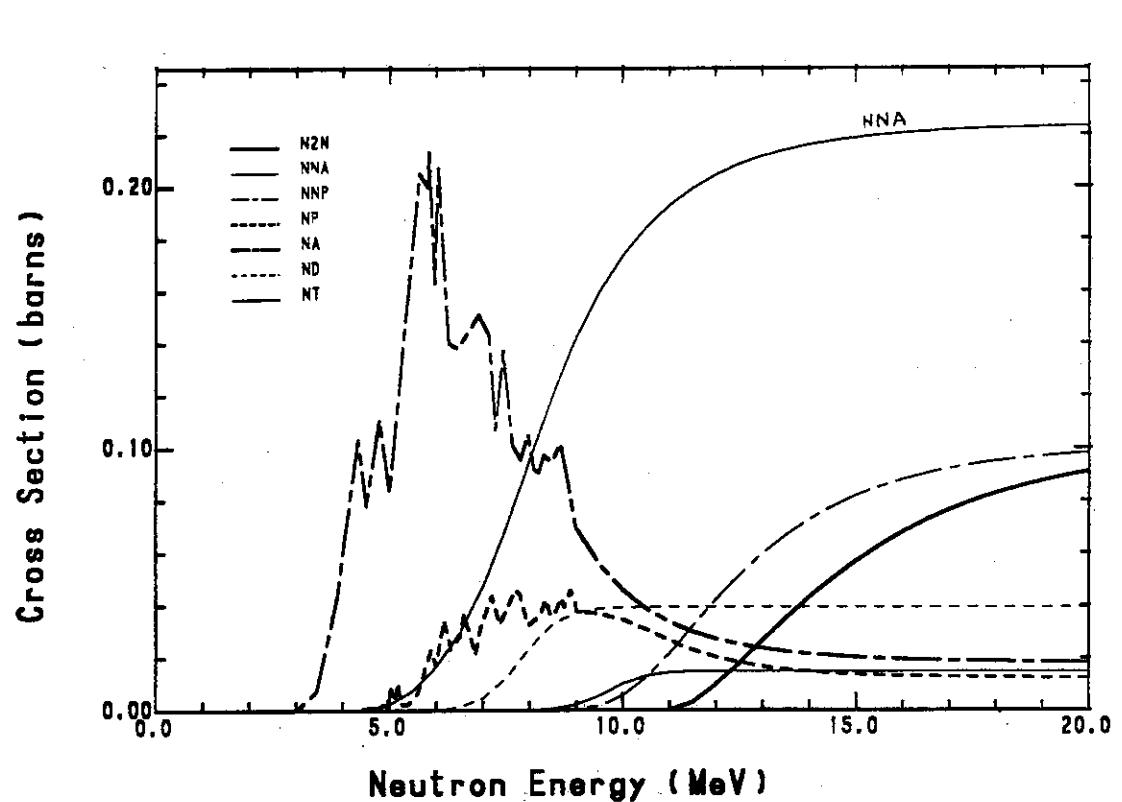
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MT= 102

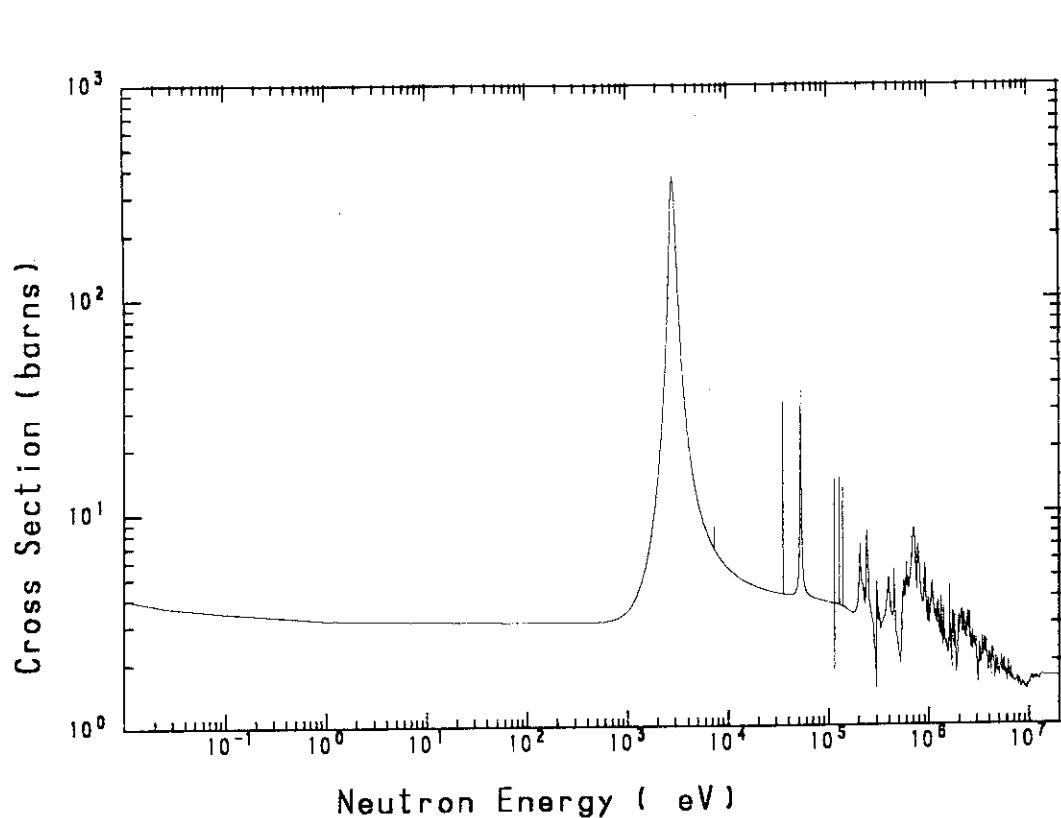
^{19}F
(n, n')

MAT=2091
MT= 4
51~55



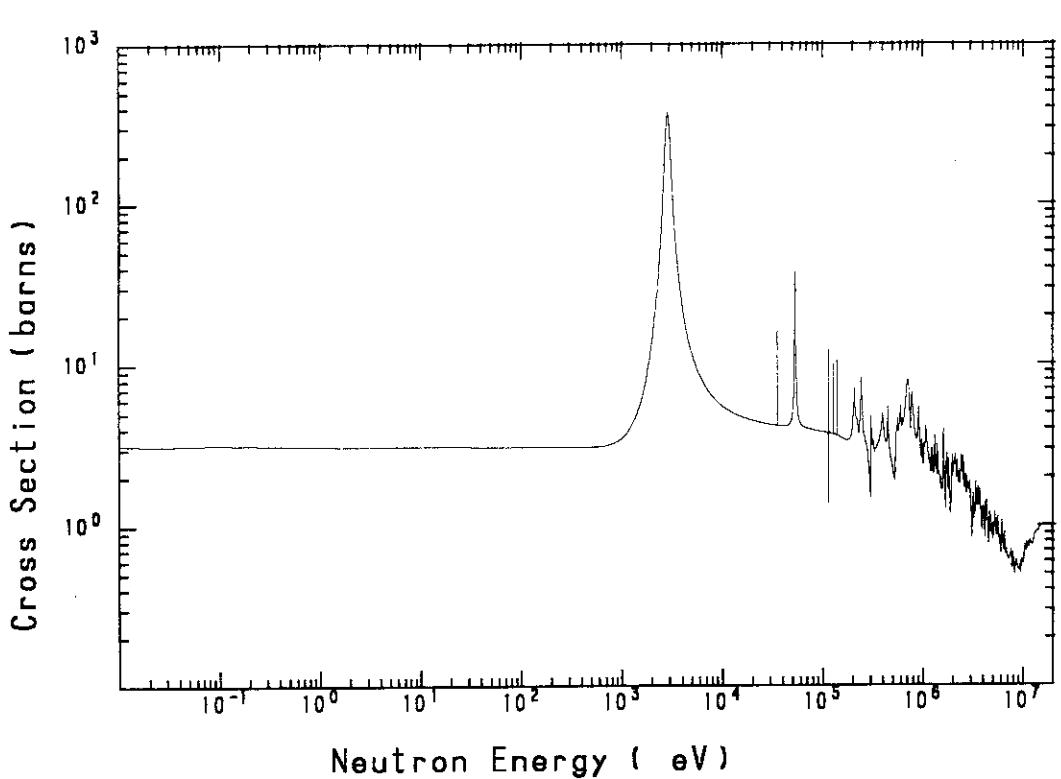
MAT=2091
MT= 16
22
28
103
104
105
107





^{23}Na
TOTAL

MAT=2111
MT= 1

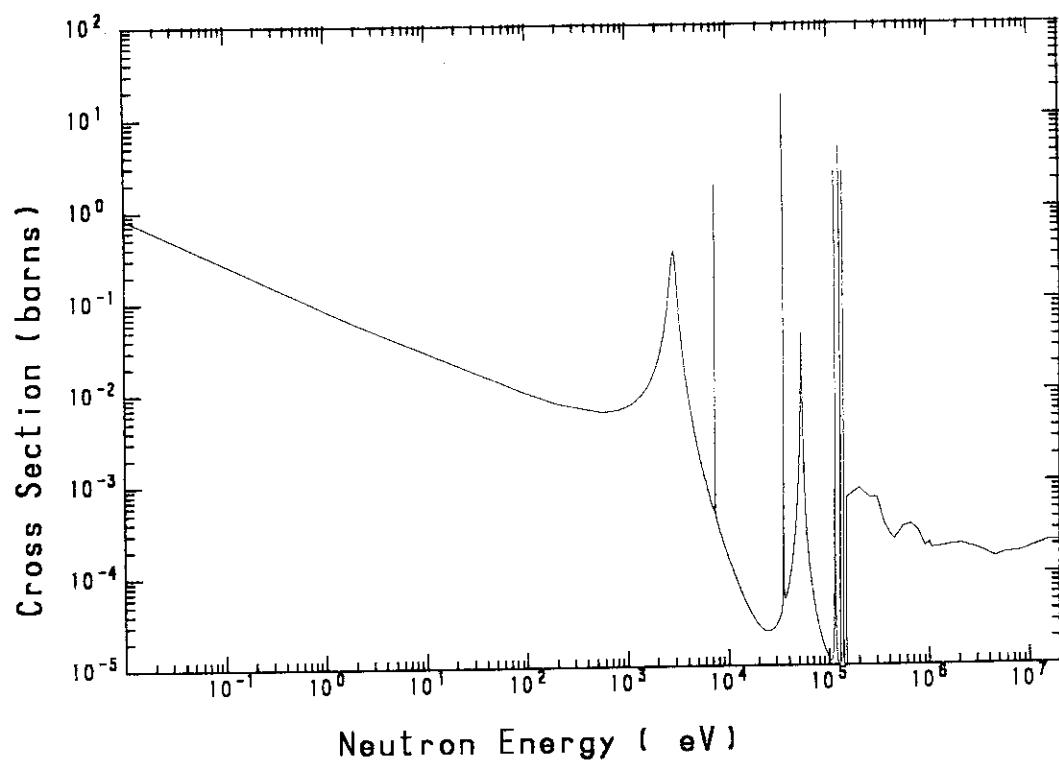


^{23}Na
(n, n)

MAT=2111
MT= 2

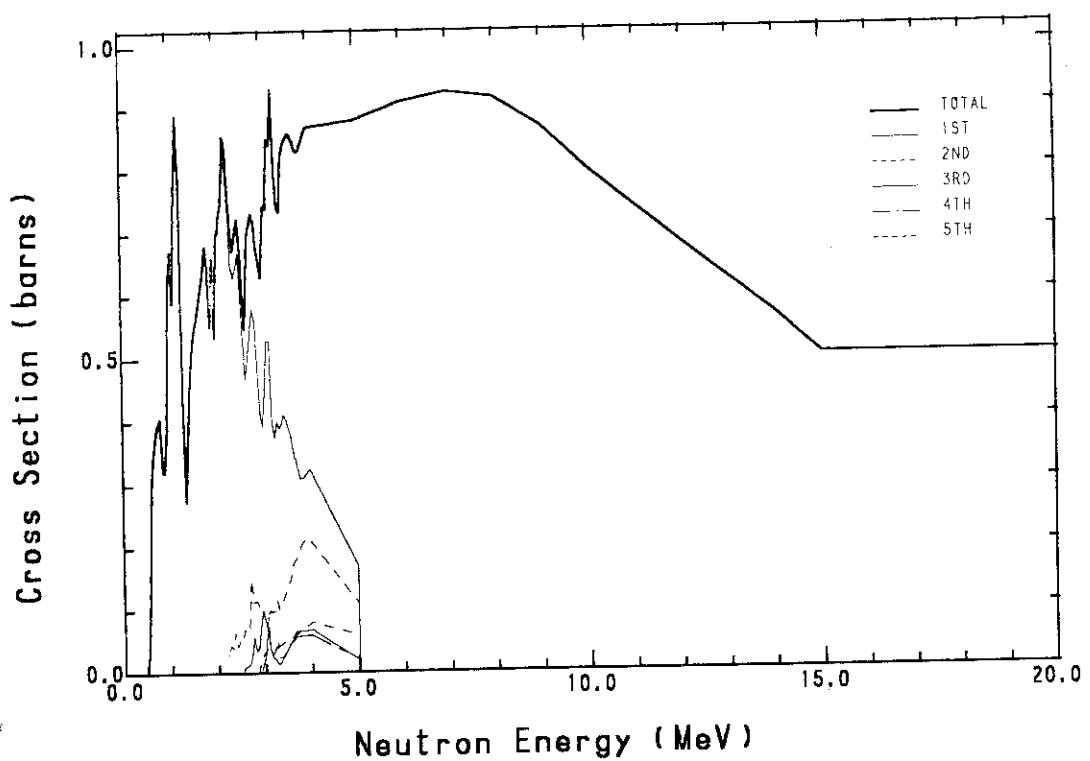
^{23}Na
 (n, γ)

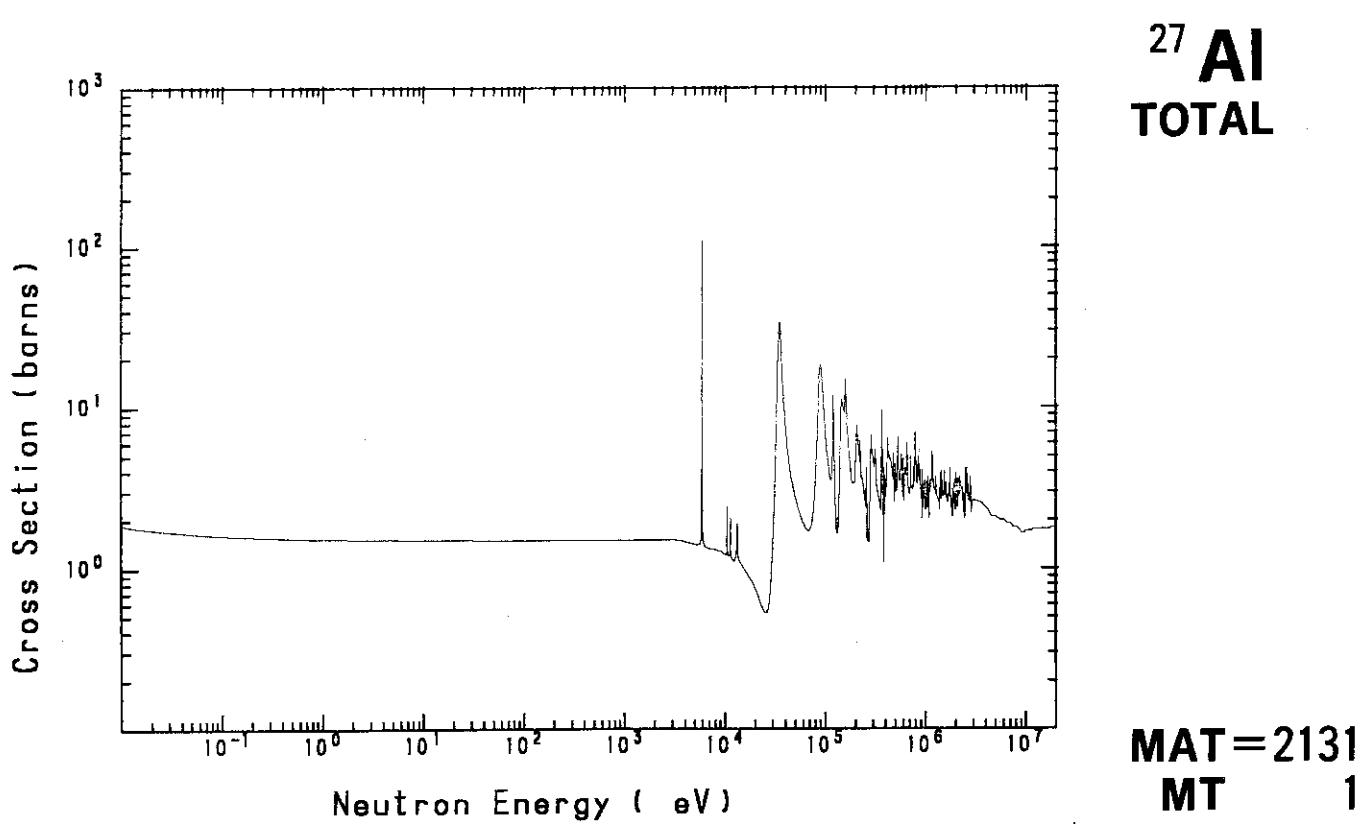
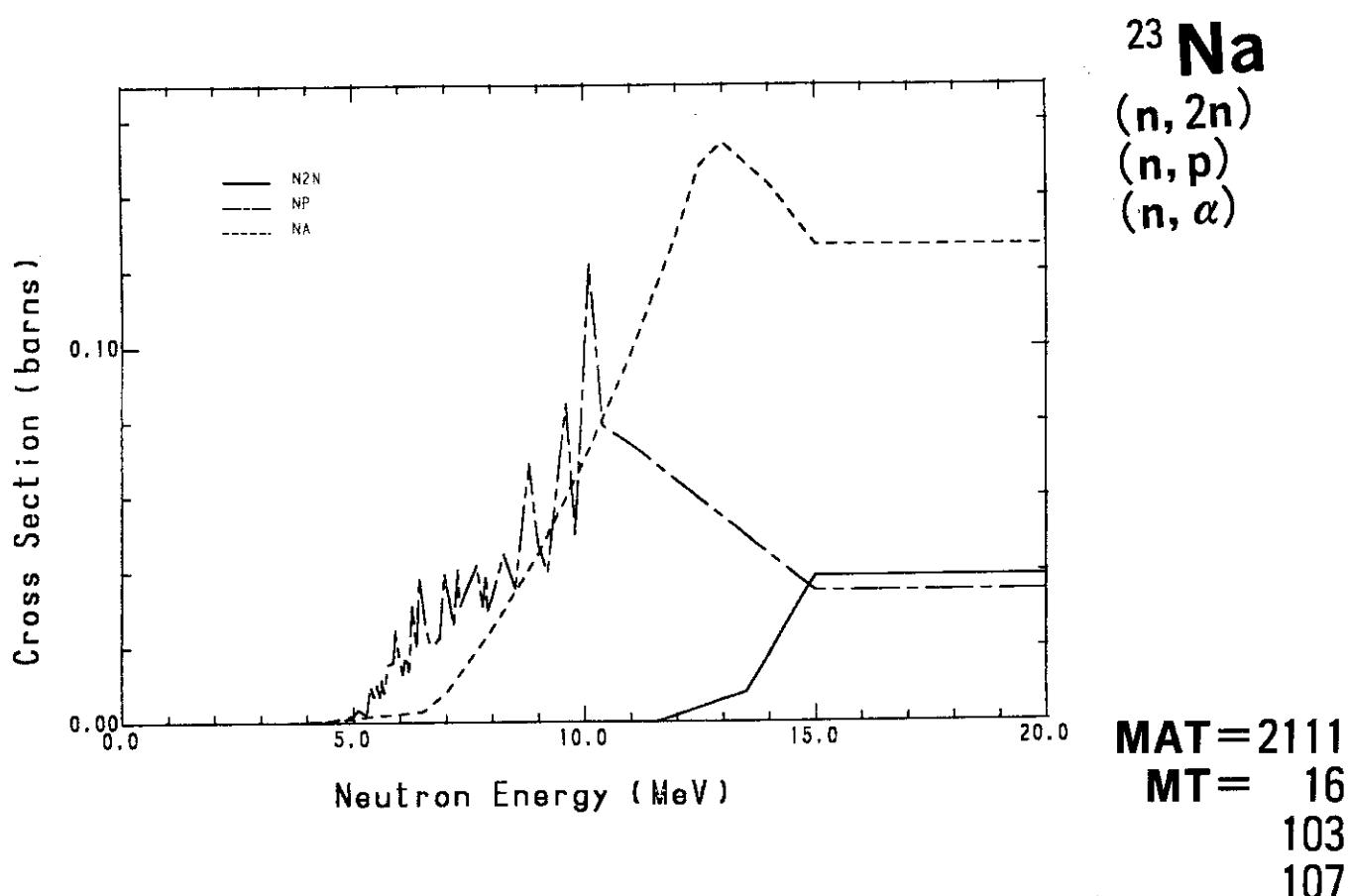
MAT=2111
MT = 102



^{23}Na
 (n, n')

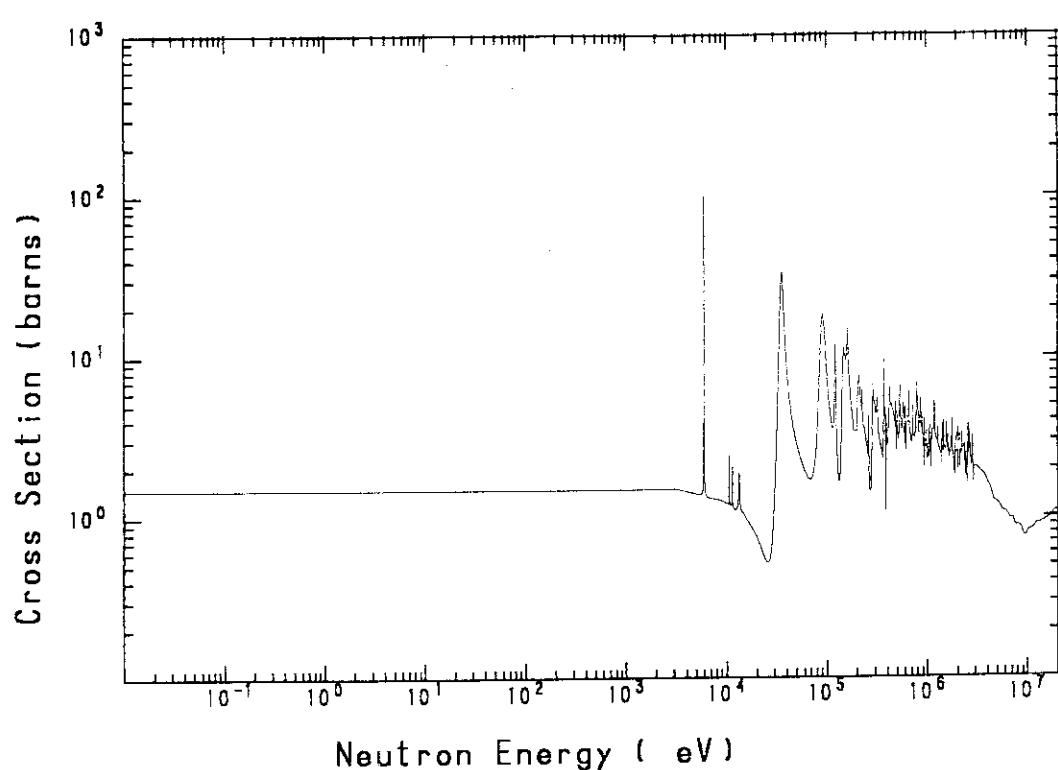
MAT=2111
MT = 4
51~55





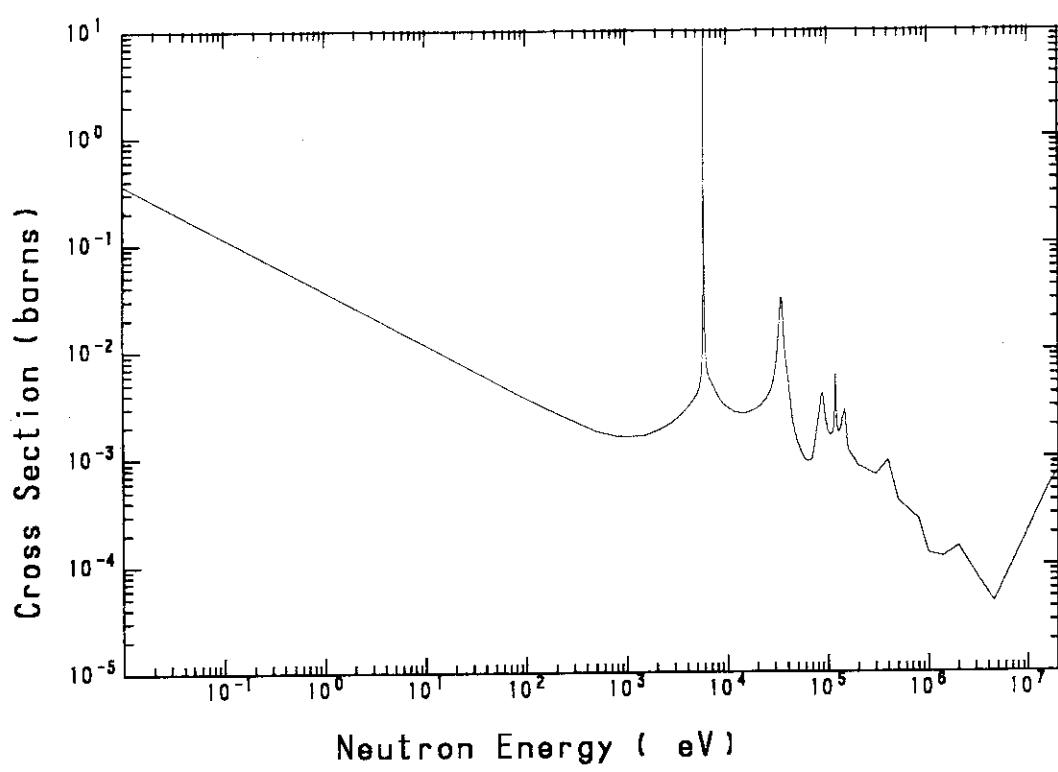
^{27}Al
(n, n)

MAT=2131
MT = 2

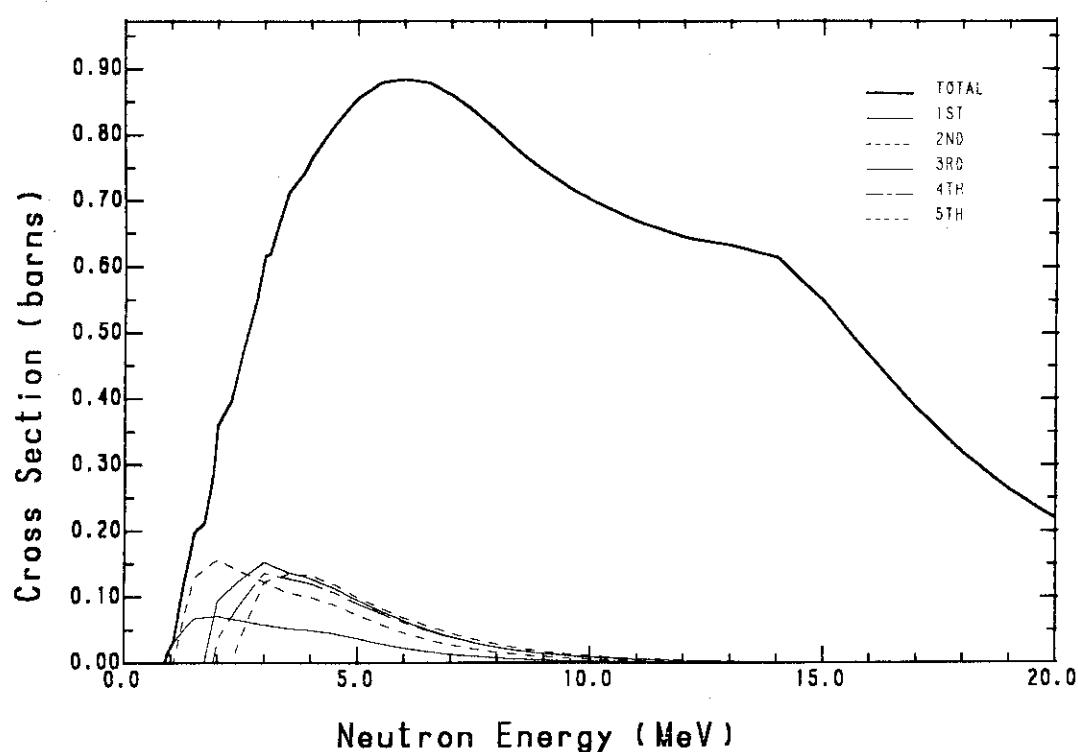


^{27}Al
(n, γ)

MAT=2131
MT = 102

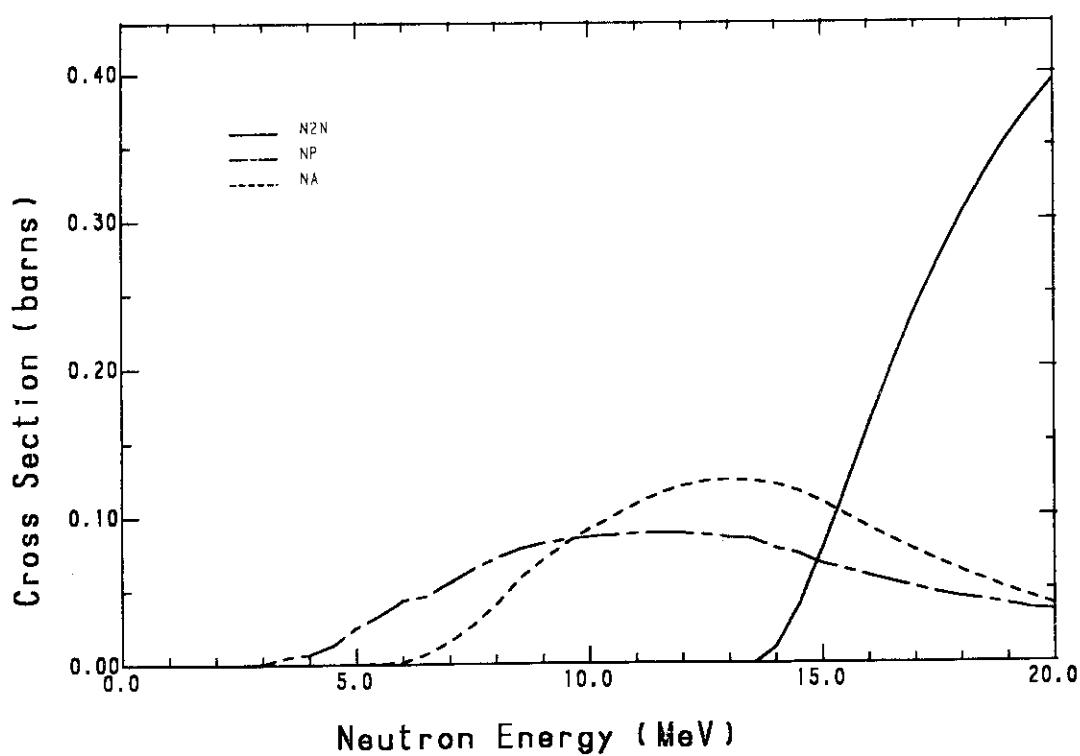


^{27}Al
 (n, n')



MAT=2131
MT= 4
51~55

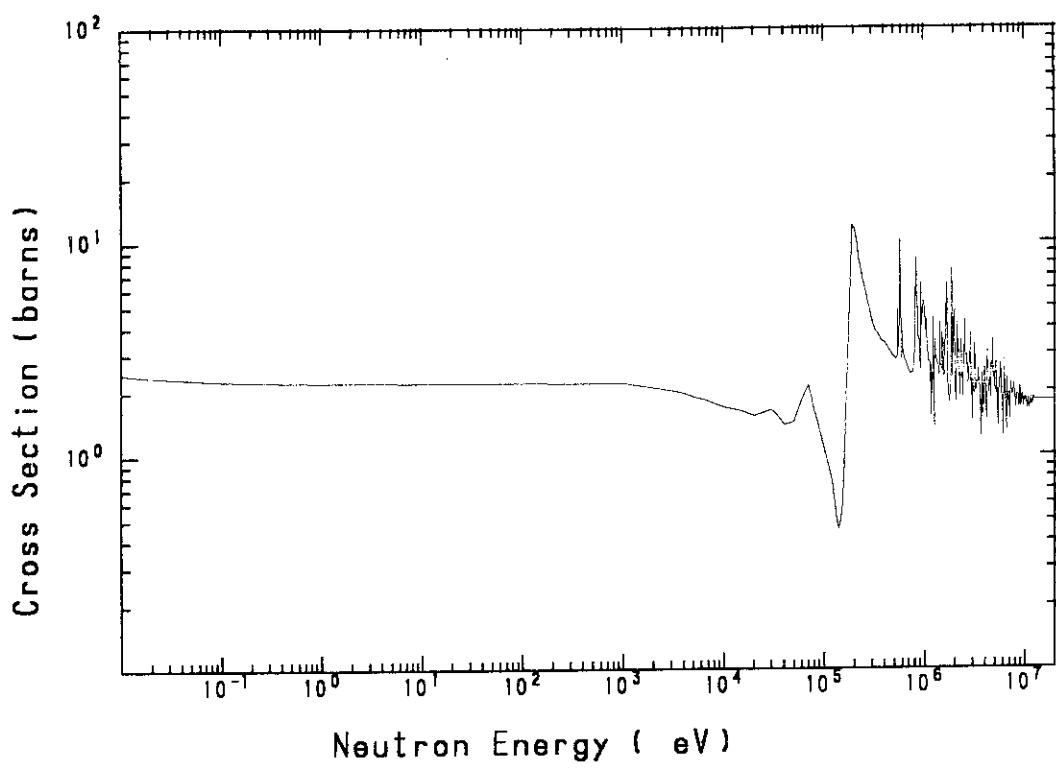
^{27}Al
 $(n, 2n)$
 (n, p)
 (n, α)



MAT=2131
MT= 16
103
107

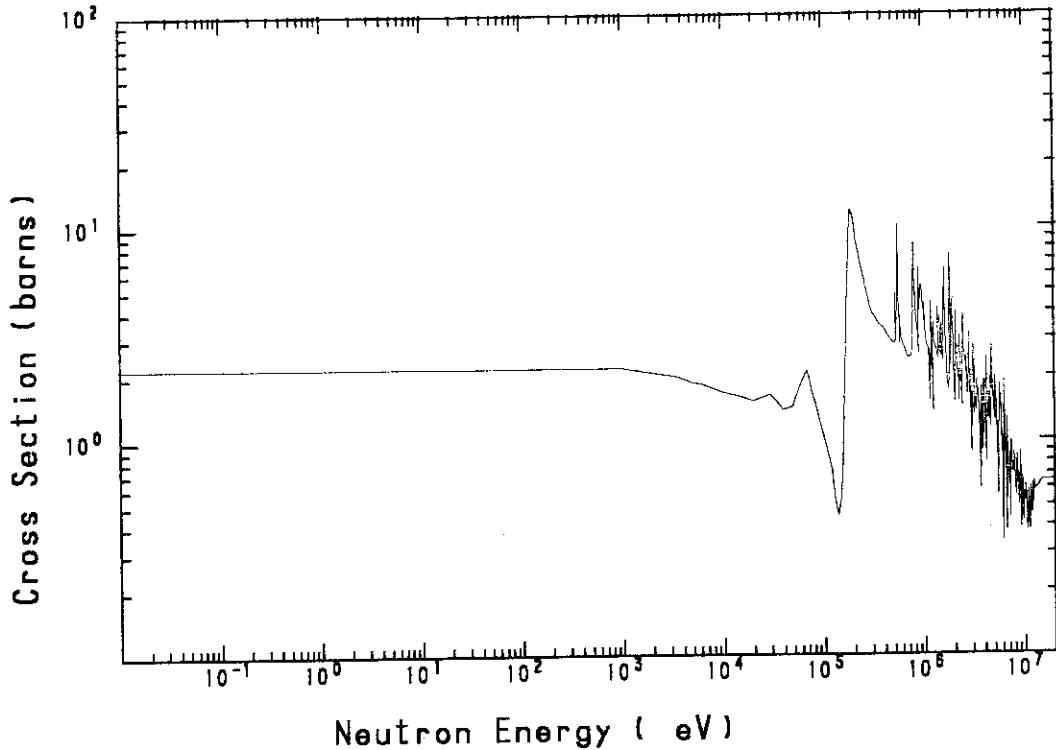
^{14}Si
TOTAL

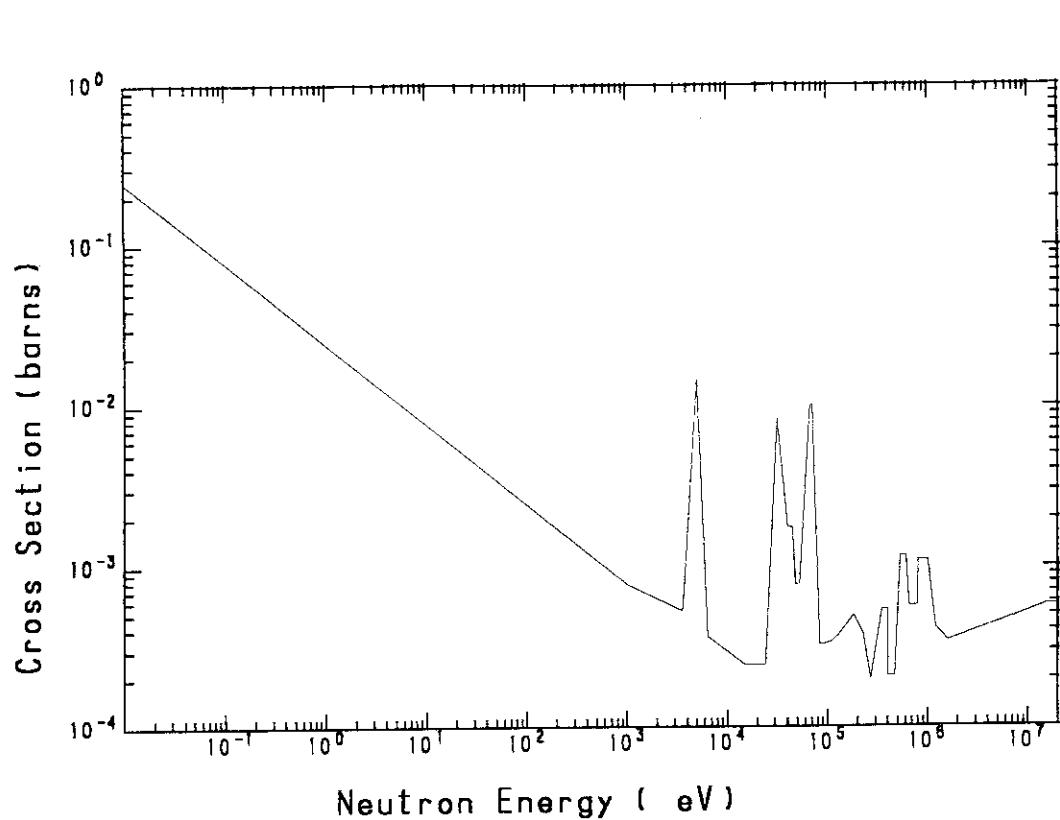
MAT=2140
MT = 1



^{14}Si
(n, n)

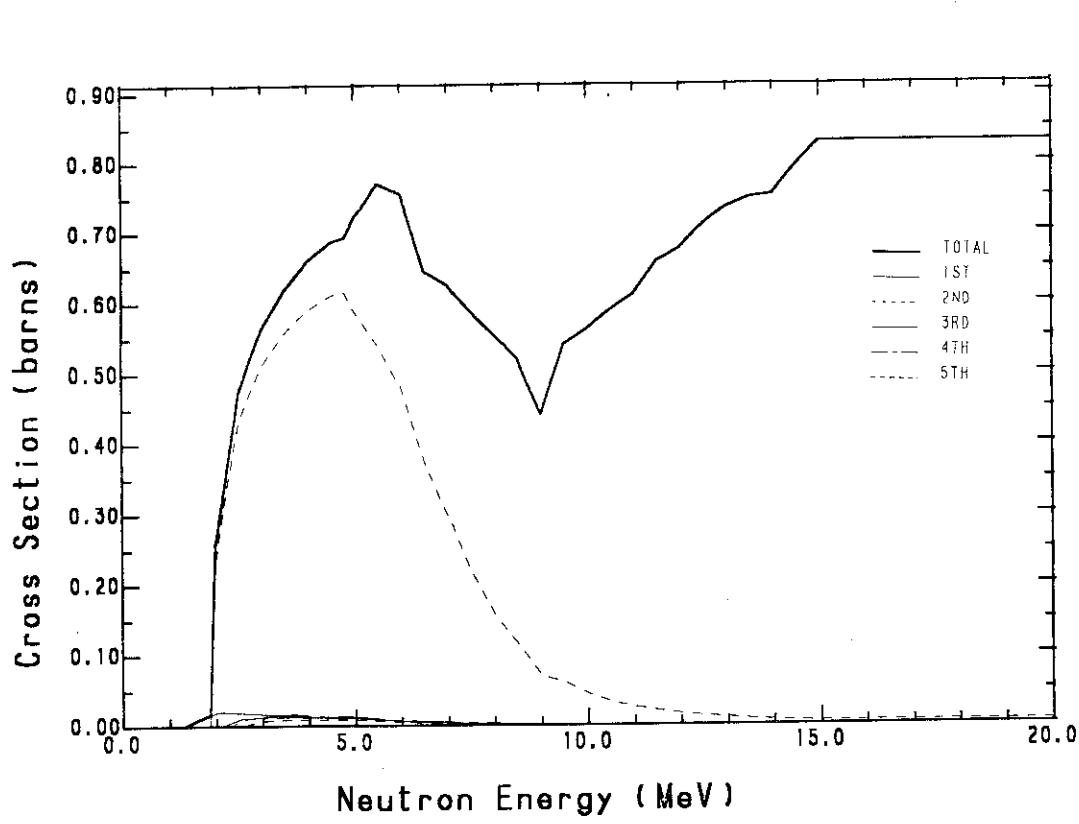
MAT=2140
MT = 2





^{14}Si
(n, γ)

MAT=2140
MT = 102

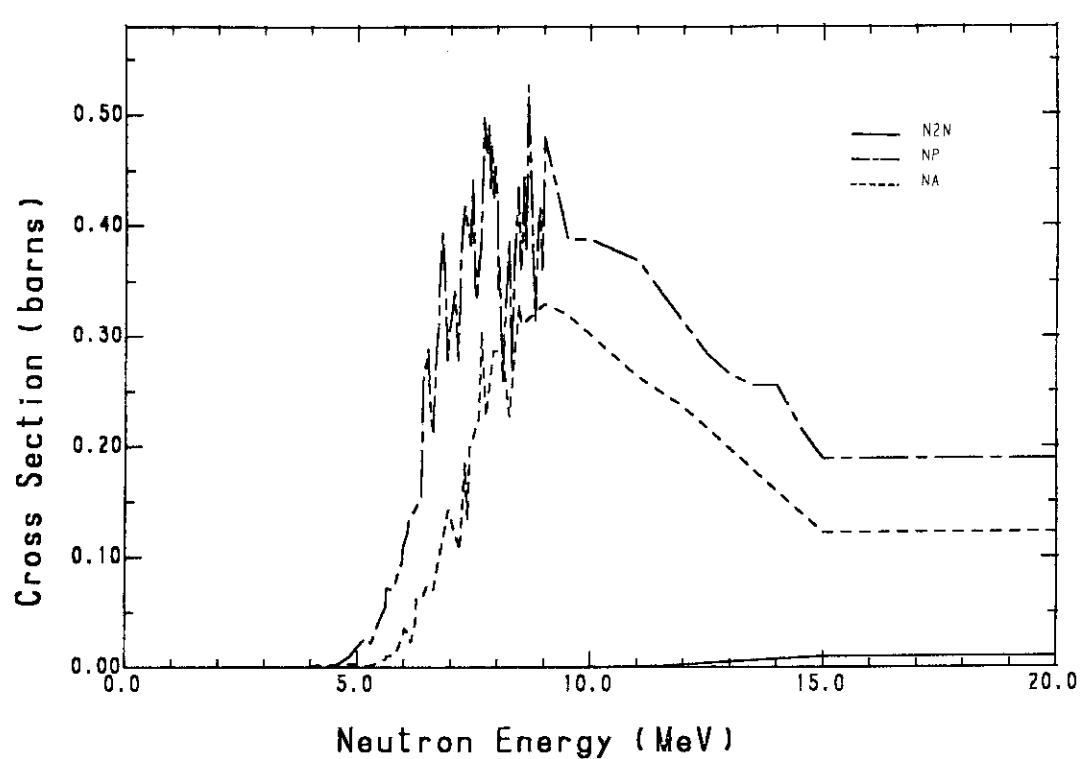


^{14}Si
(n, n')

MAT=2140
MT = 4
51~55

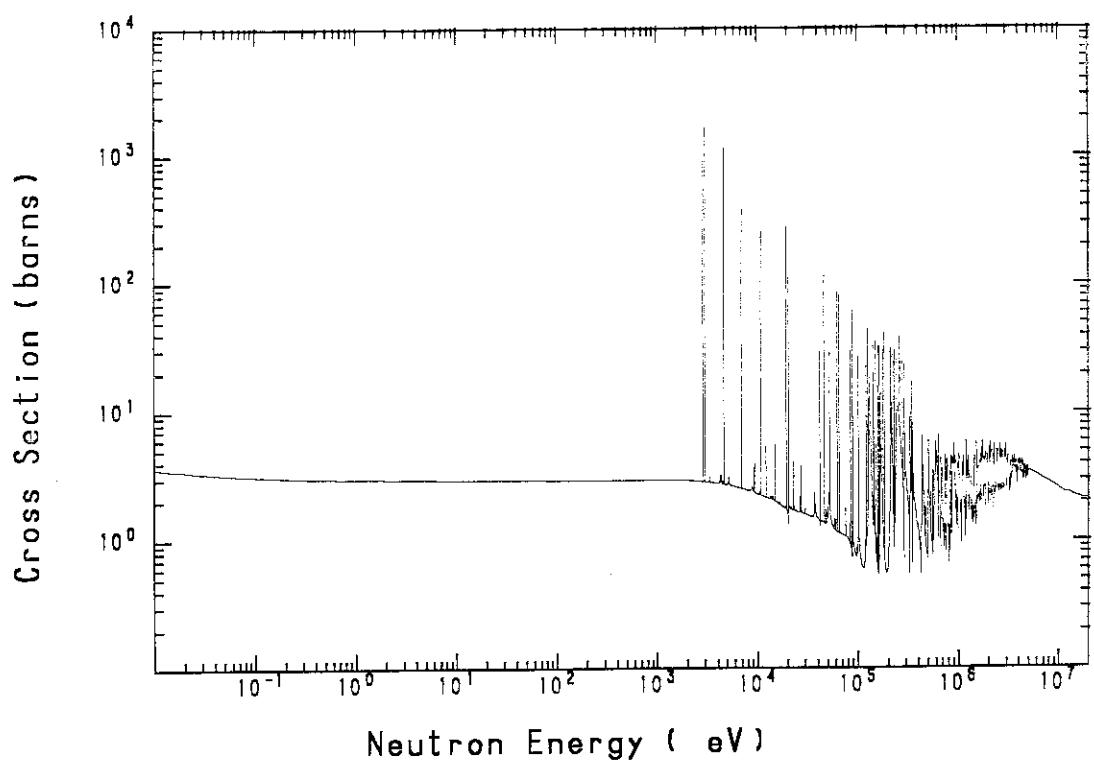
^{14}Si
 $(n, 2n)$
 (n, p)
 (n, α)

MAT=2140
MT= 16
103
107

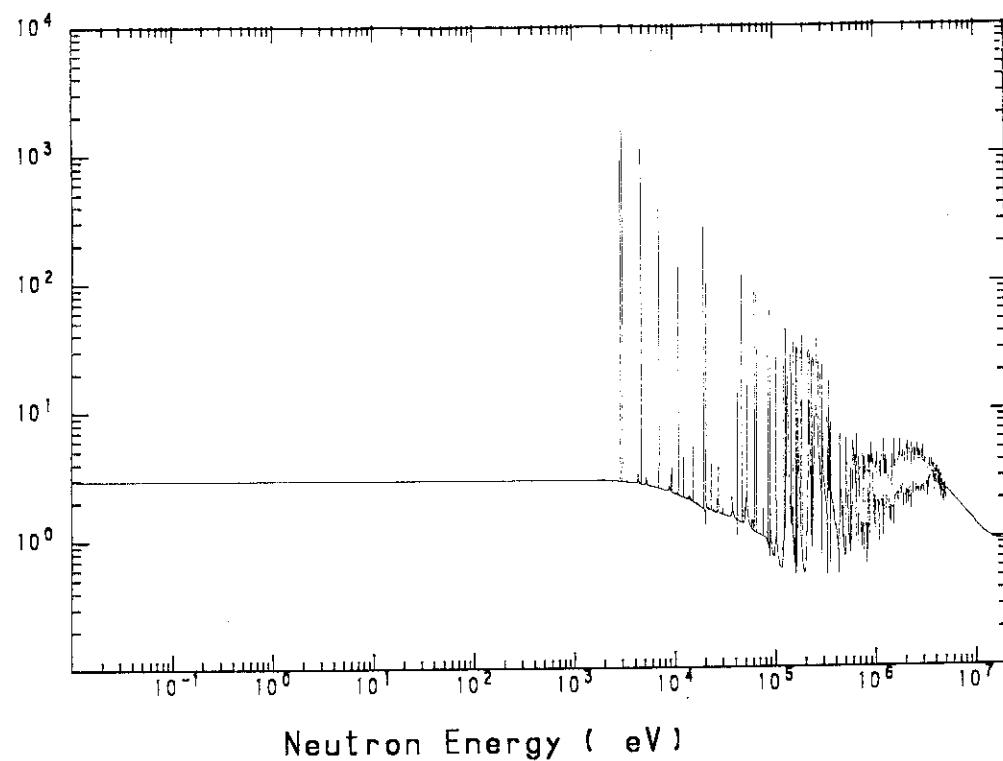


^{20}Ca
TOTAL

MAT=2200
MT= 1



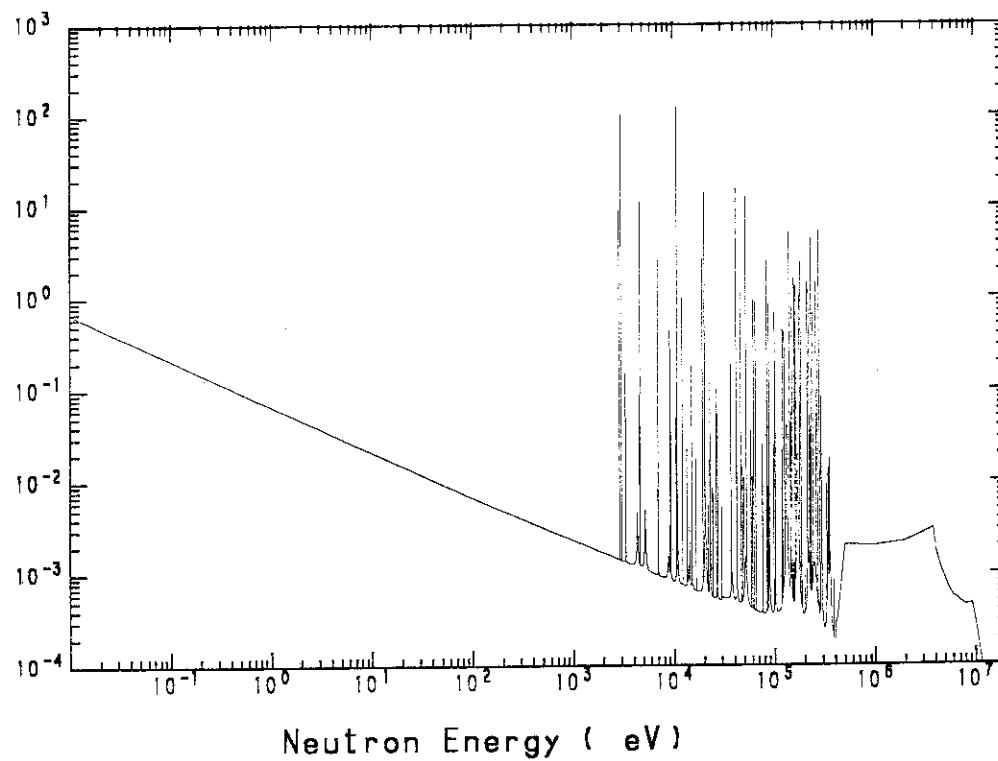
Cross Section (barns)



^{20}Ca
(n, n)

MAT=2200
MT= 2

Cross Section (barns)

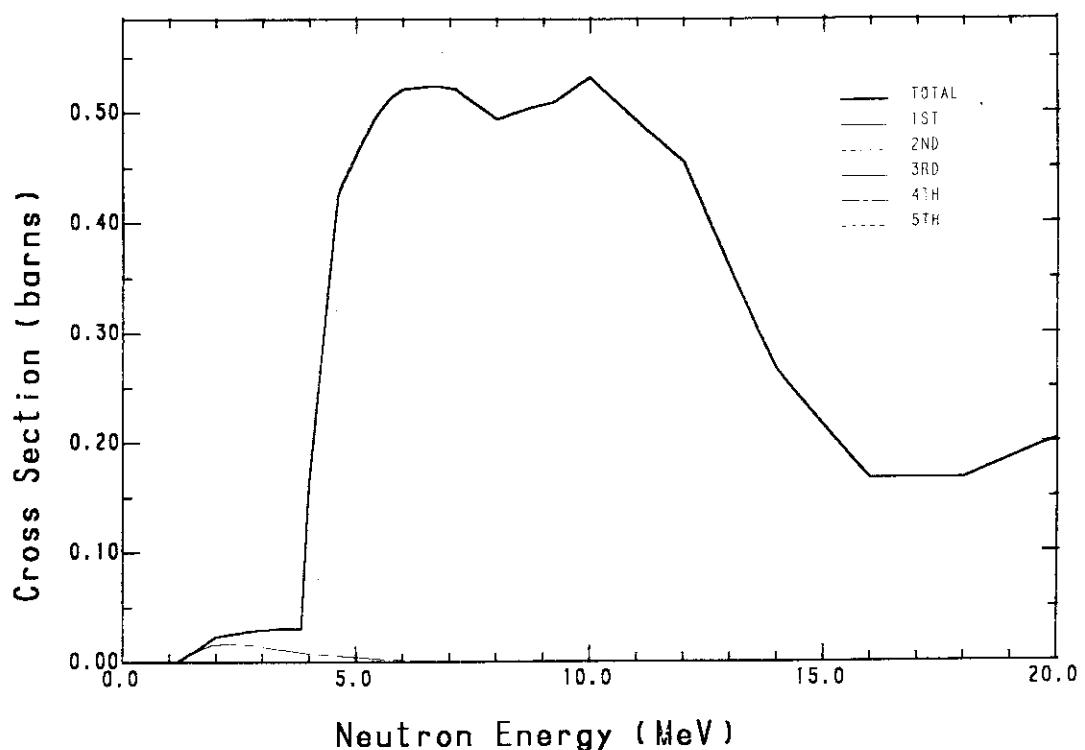


^{20}Ca
(n, γ)

MAT=2200
MT= 102

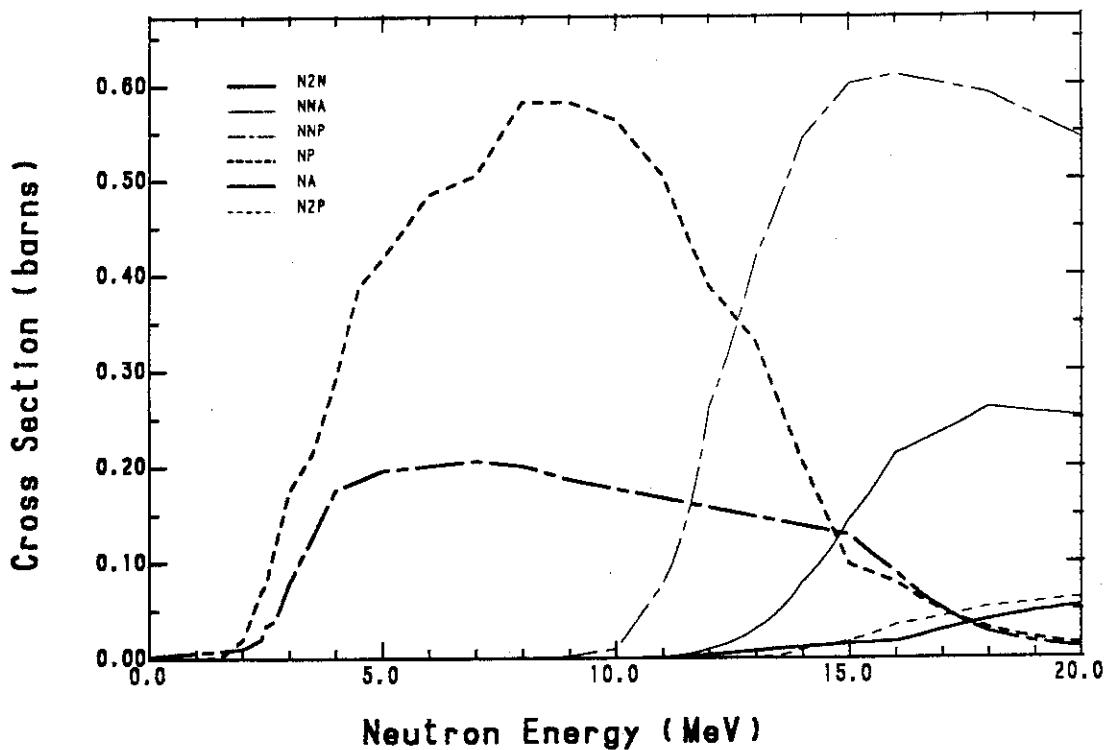
^{20}Ca
 (n, n')

MAT = 2200
MT = 4
51~55

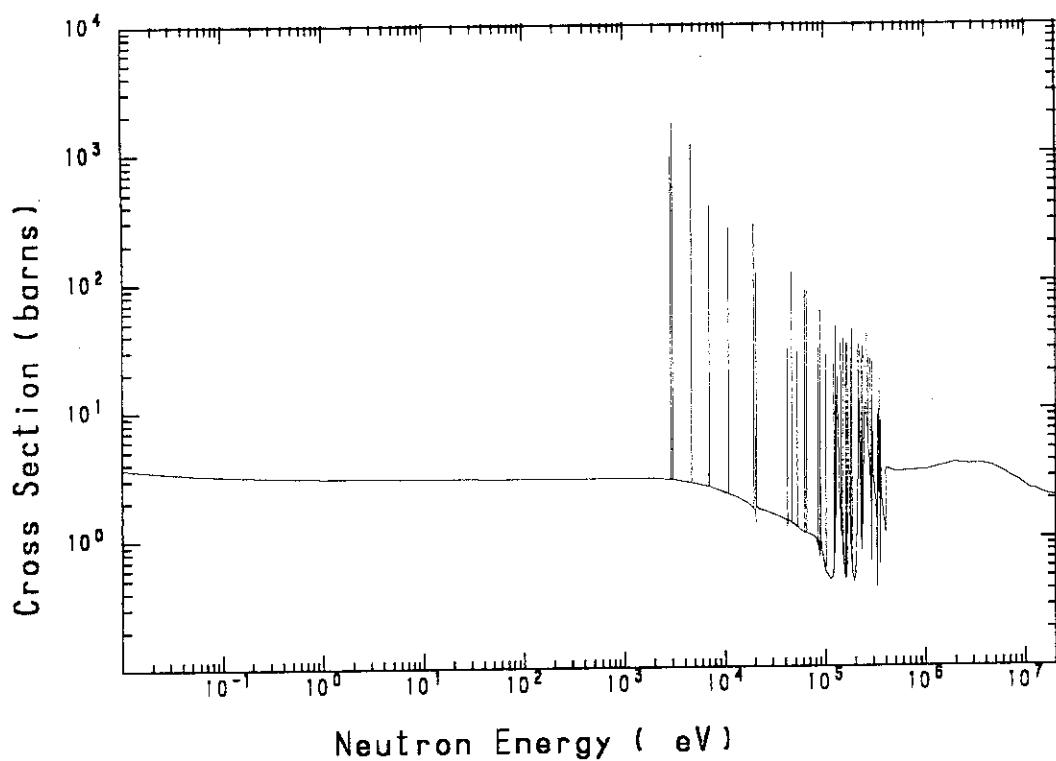


^{20}Ca
 $(n, 2n)$
 $(n, n' \alpha)$
 $(n, n' p)$
 (n, p)
 (n, α)
 $(n, 2p)$

MAT = 2200
MT = 16
22
28
103
107
111

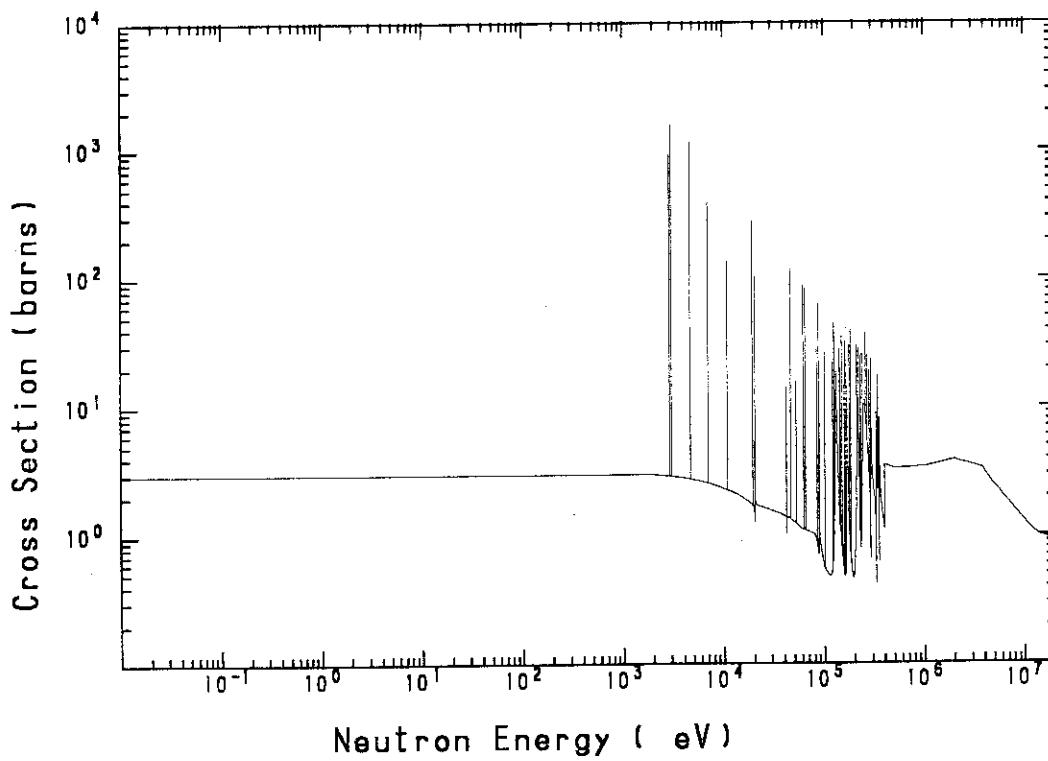


^{40}Ca
TOTAL

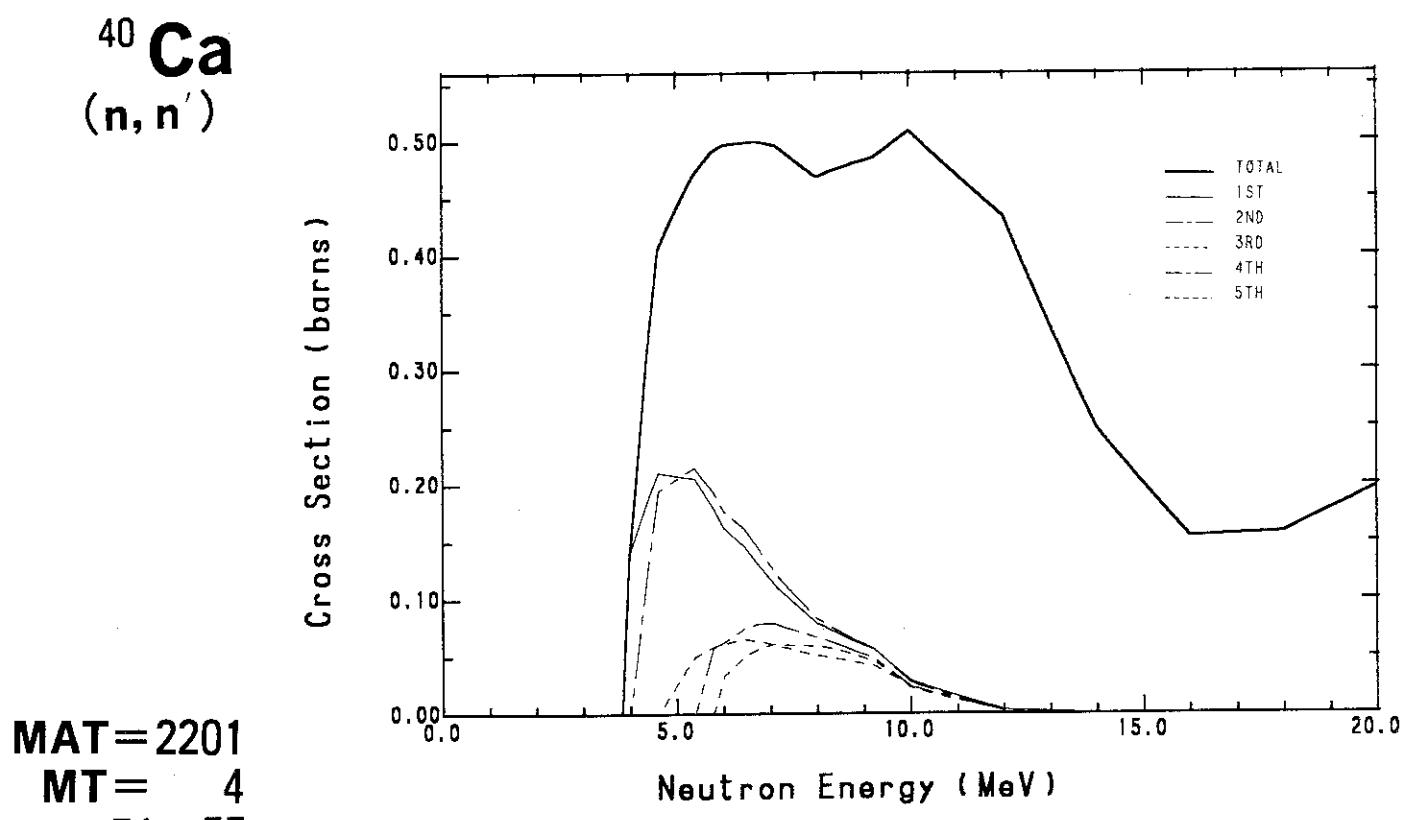
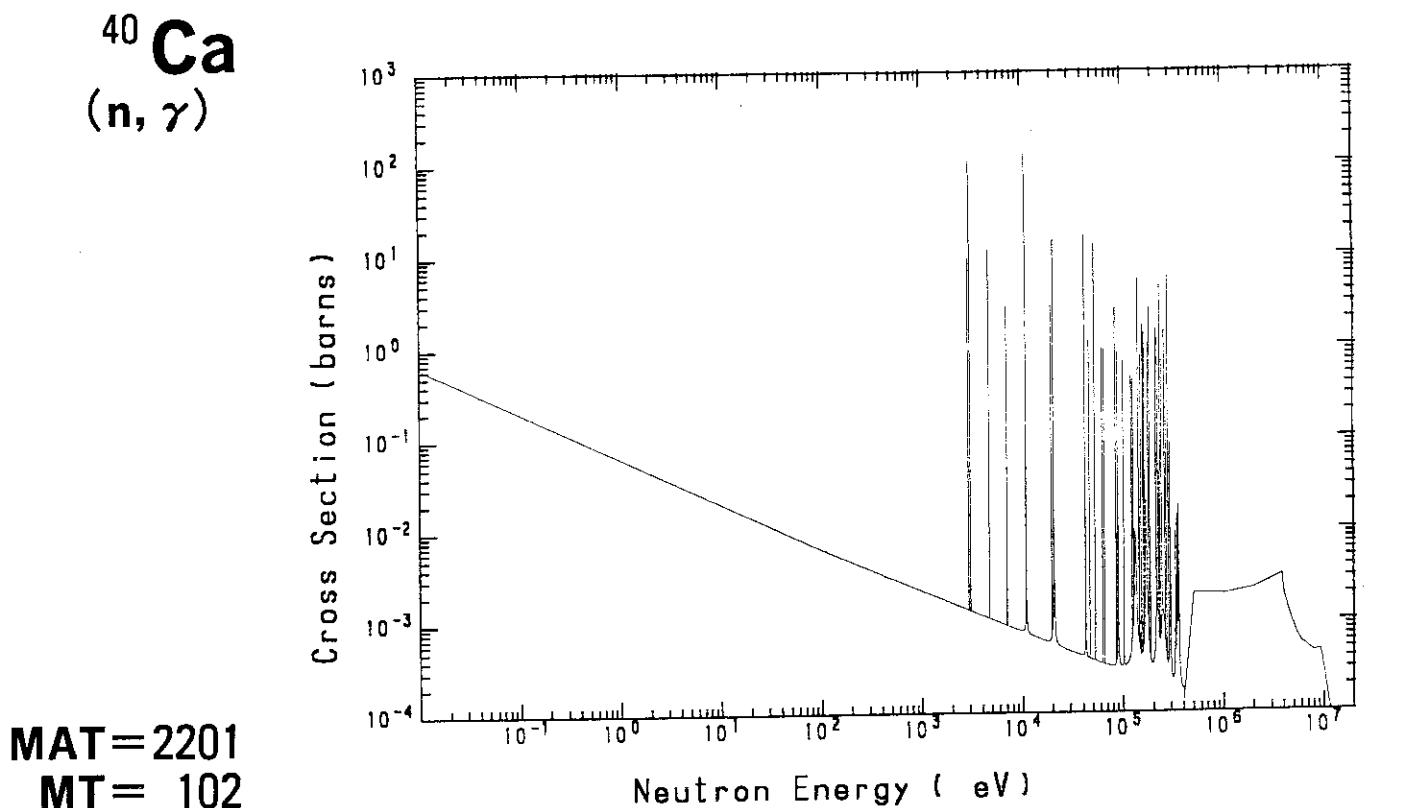


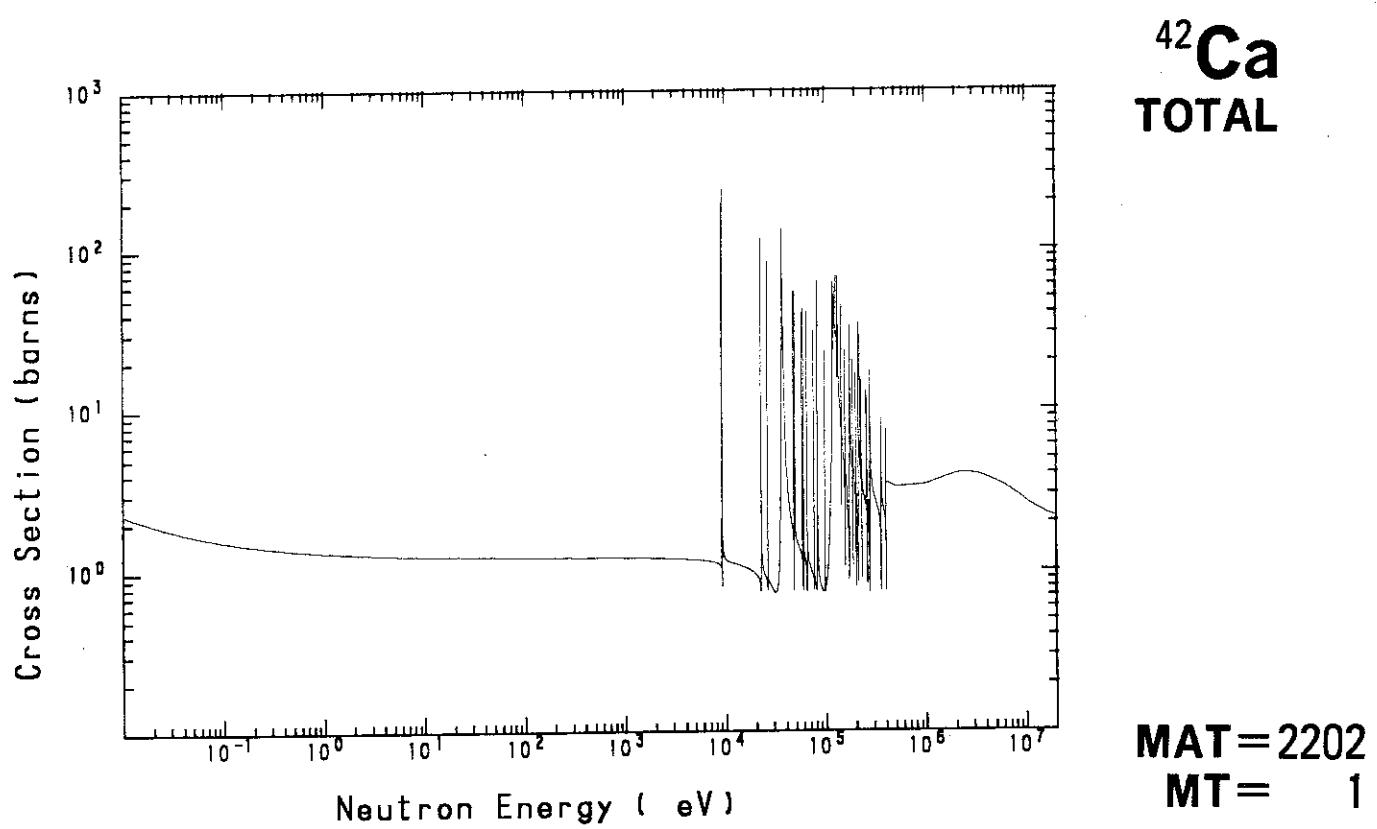
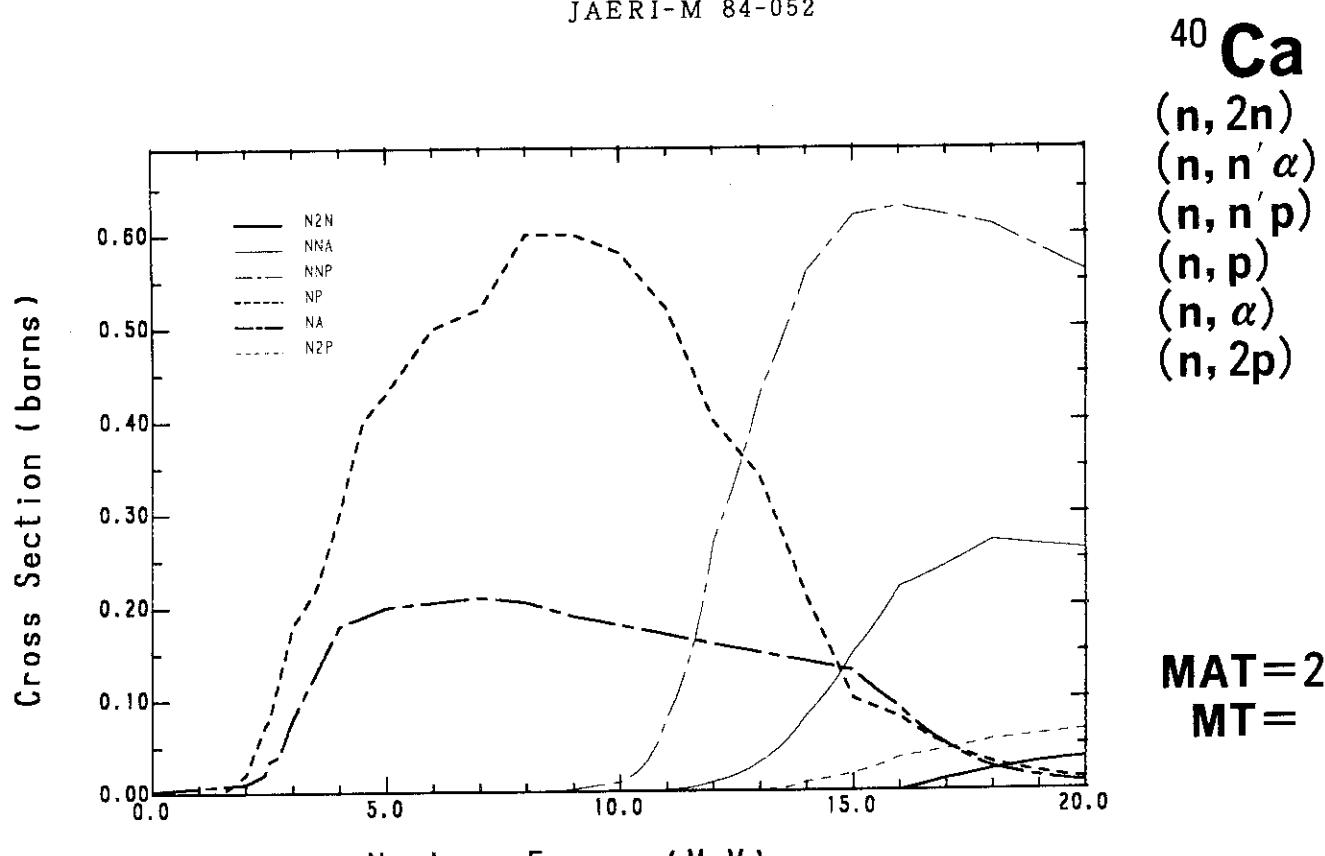
MAT=2201
MT = 1

^{40}Ca
(n, n)



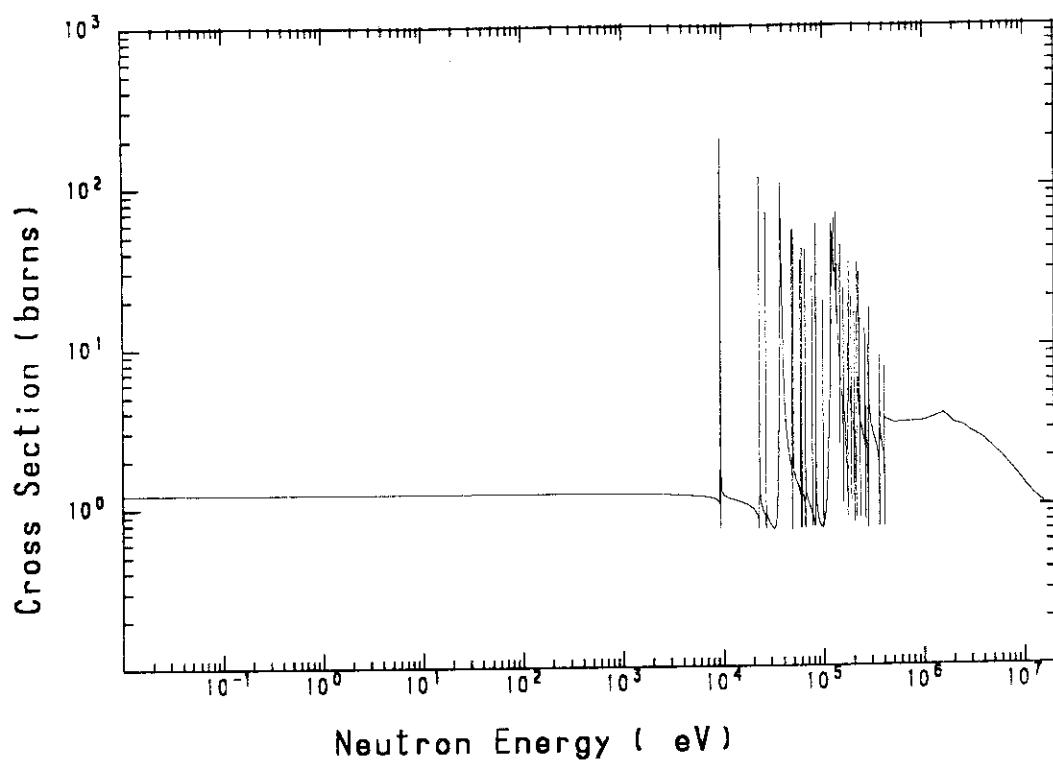
MAT=2201
MT = 2





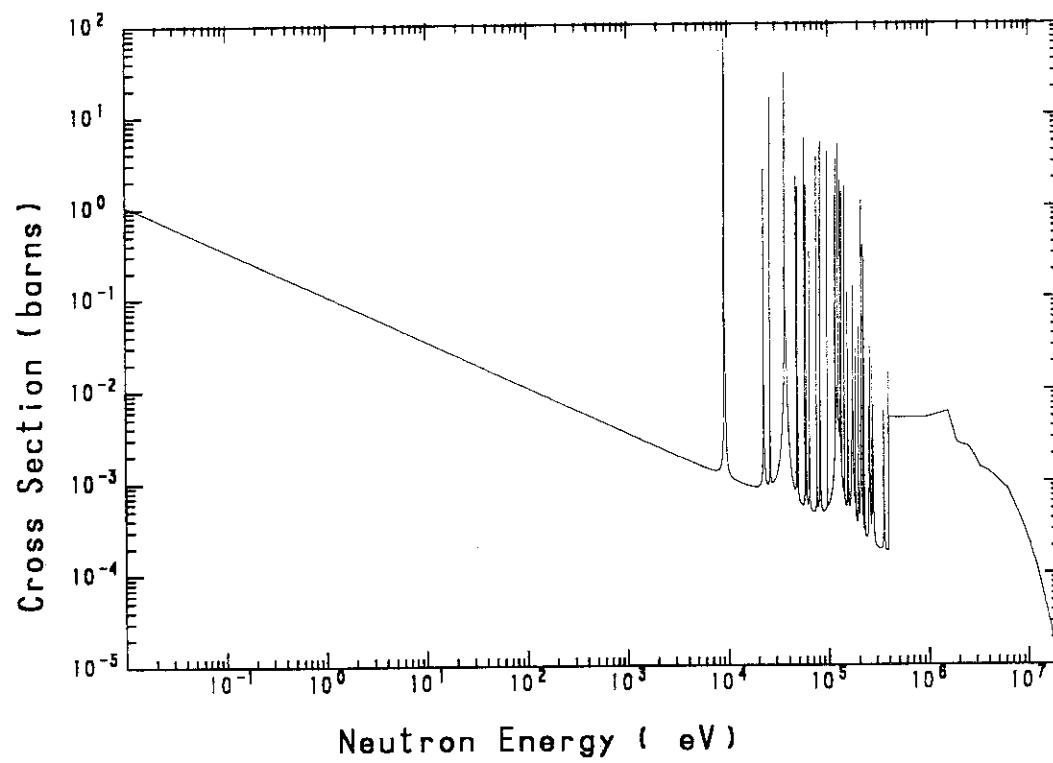
^{42}Ca
(n, n)

MAT=2202
MT = 2

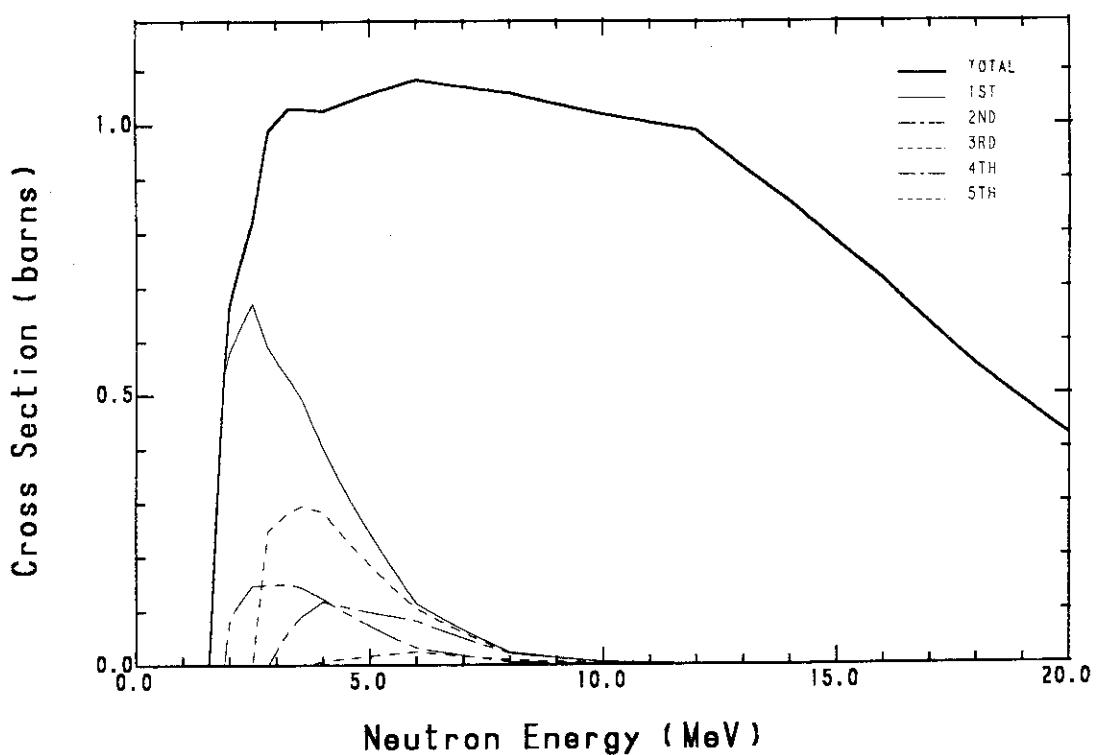


^{42}Ca
(n, γ)

MAT=2202
MT = 102

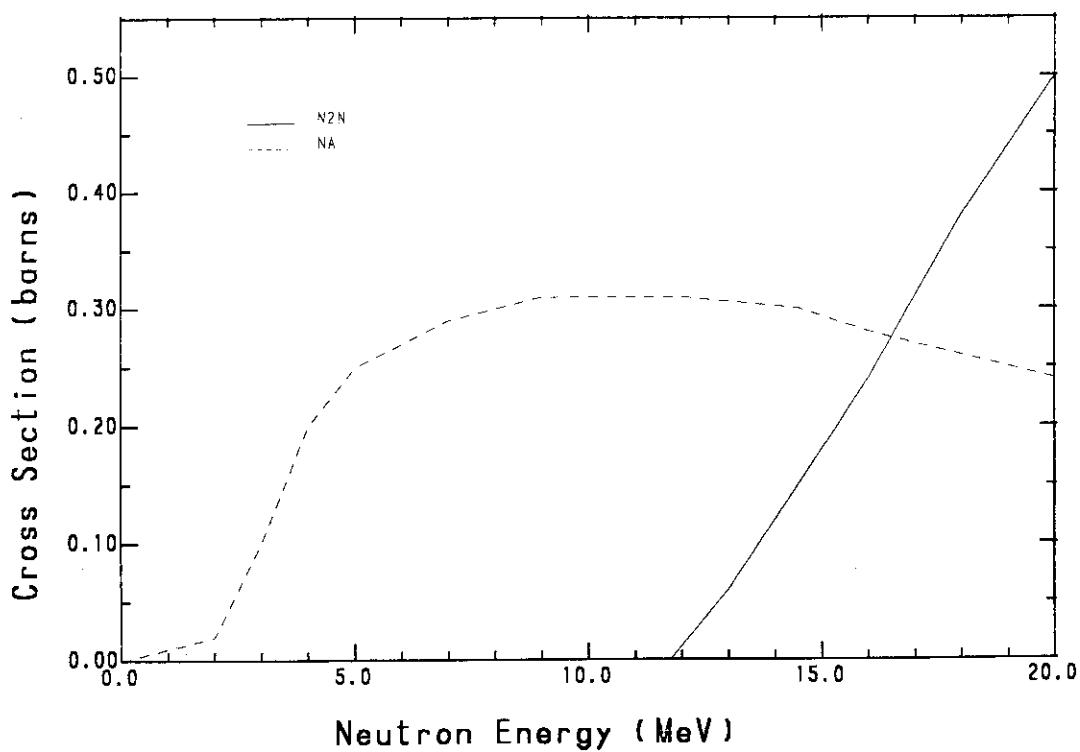


^{42}Ca
(n, n')



MAT=2202
MT= 4
51~55

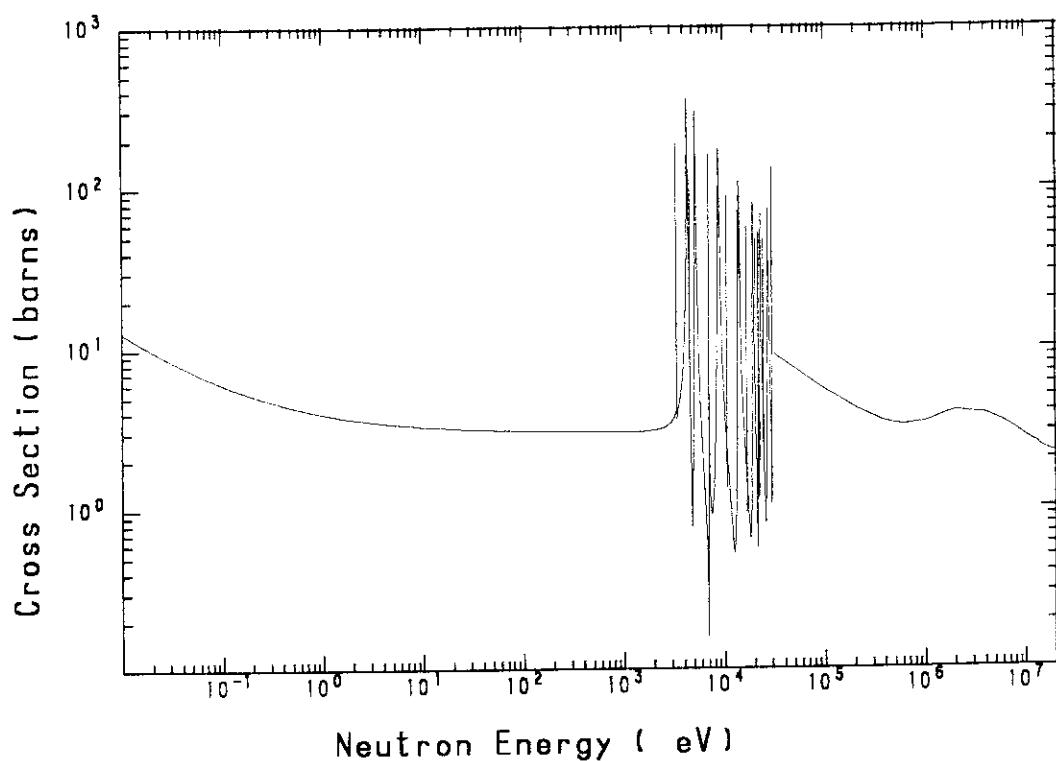
^{42}Ca
($n, 2n$)
(n, α)



MAT=2202
MT= 16
107

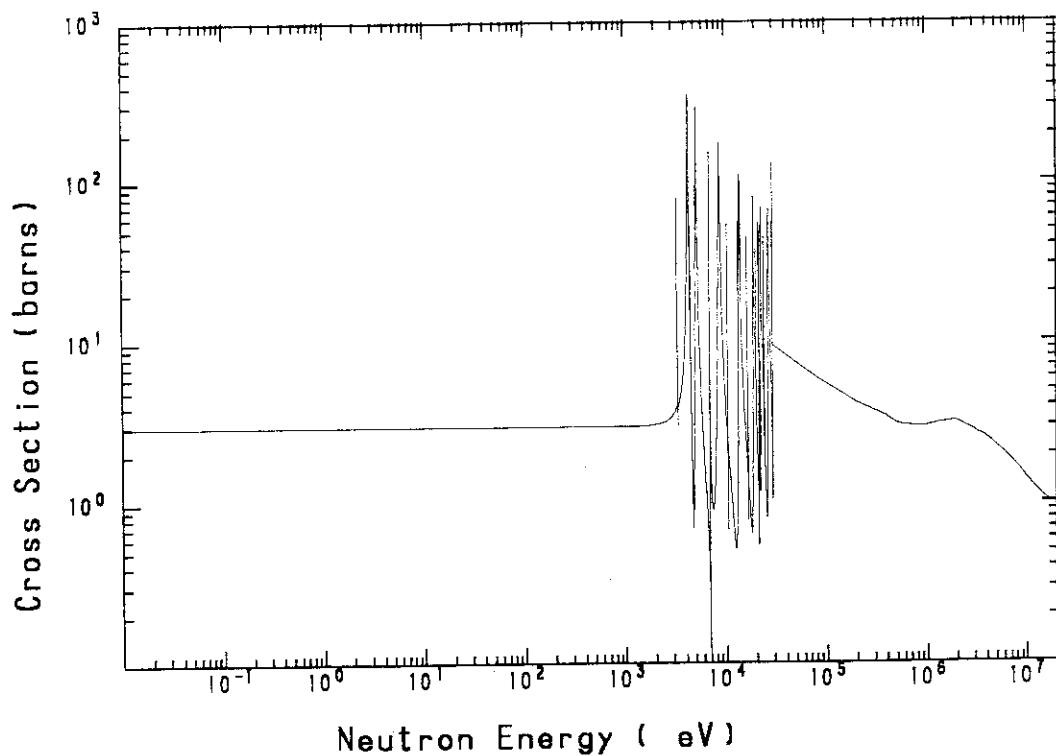
^{43}Ca
TOTAL

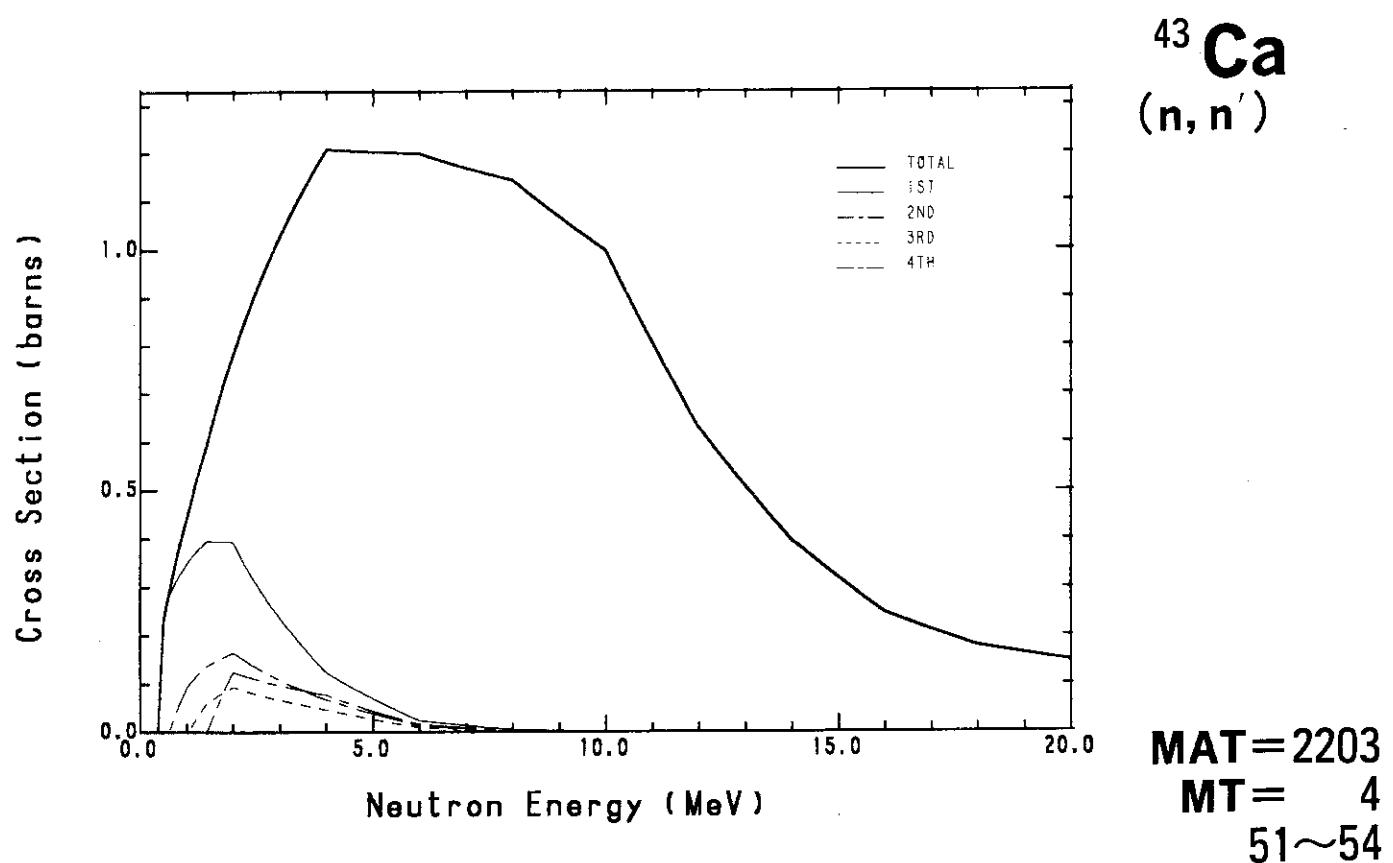
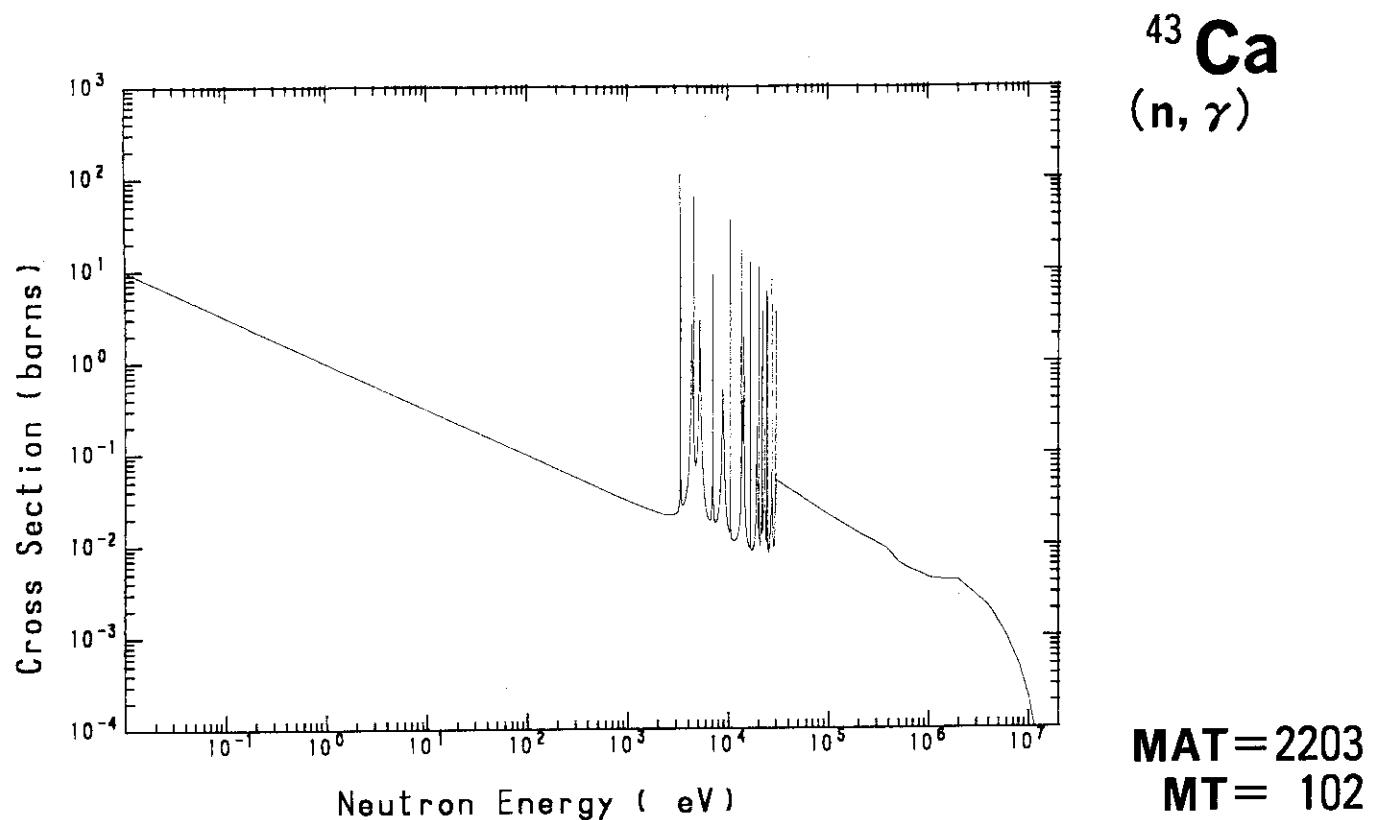
MAT=2203
MT = 1



^{43}Ca
(n, n)

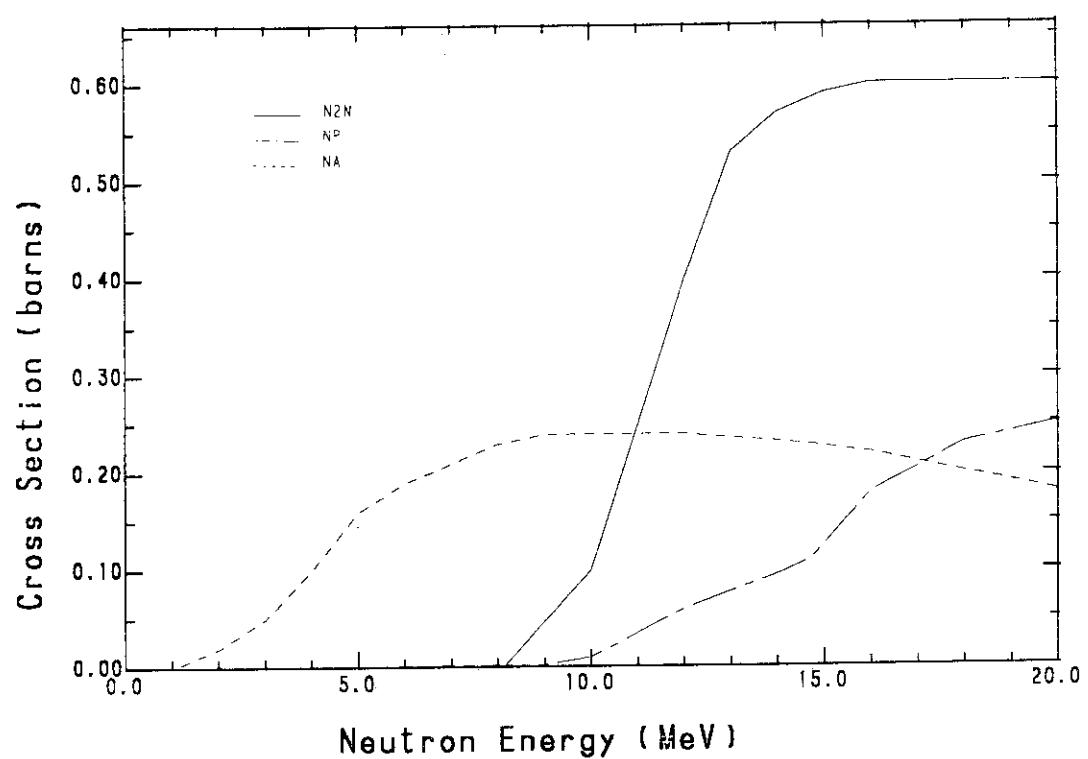
MAT=2203
MT = 2





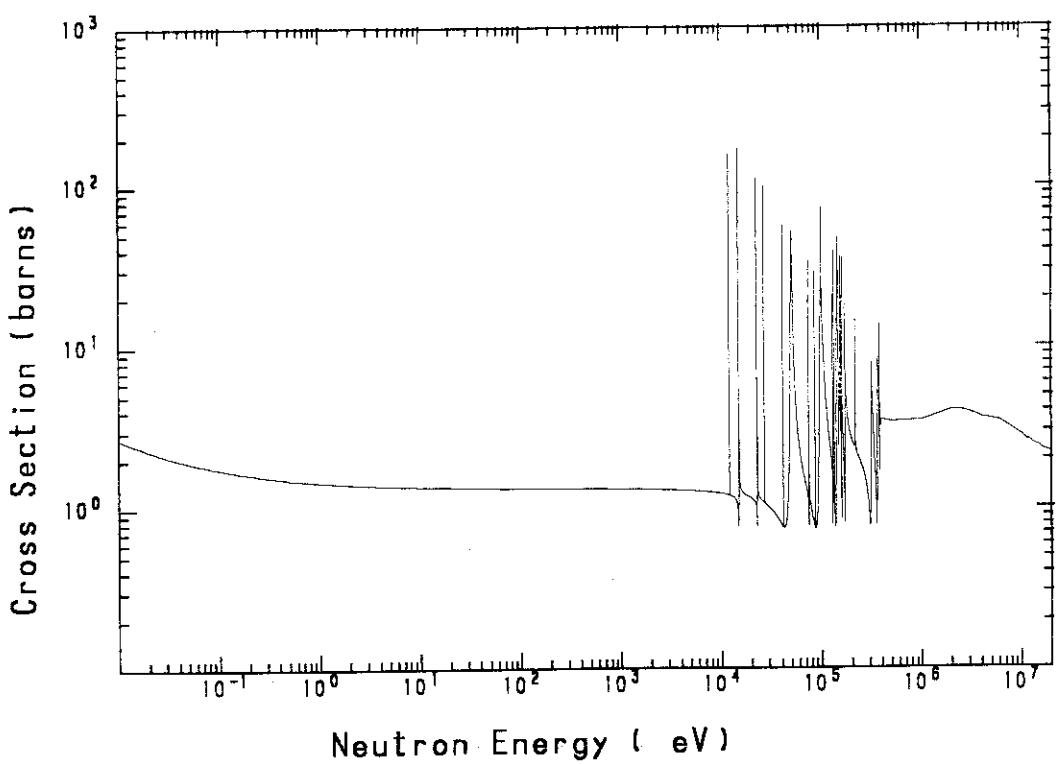
^{43}Ca
 $(n, 2n)$
 (n, p)
 (n, α)

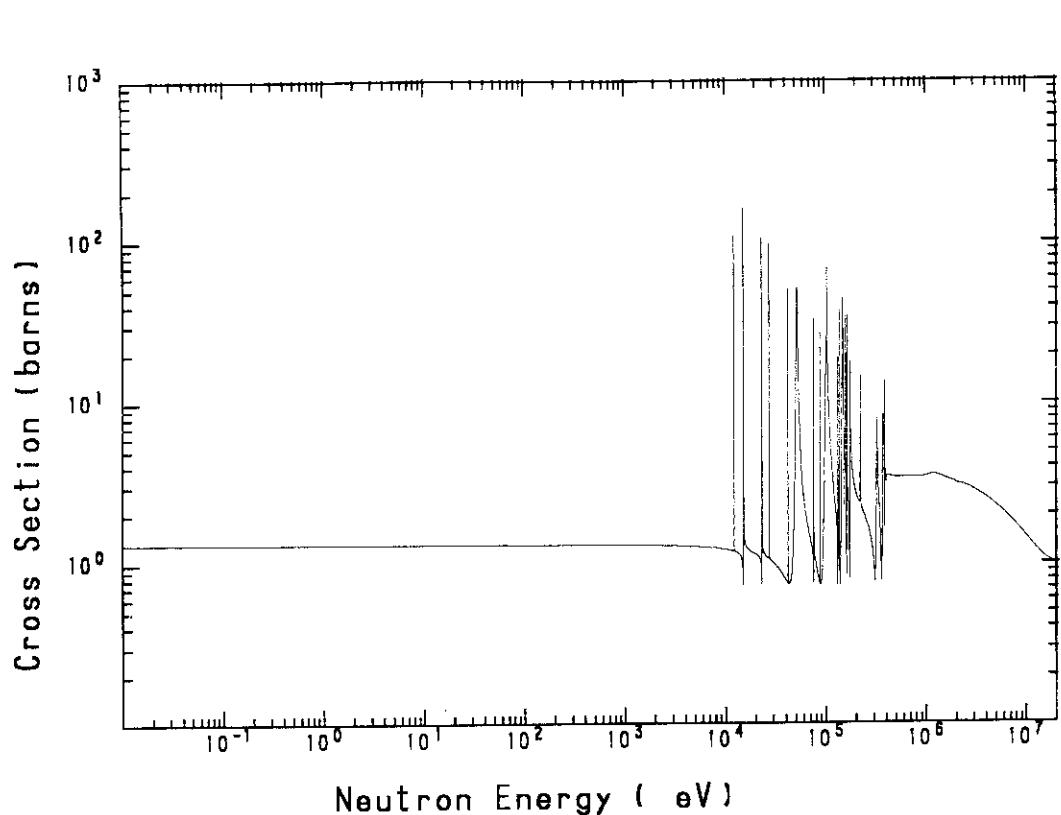
MAT=2203
MT= 16
103
107



^{44}Ca
TOTAL

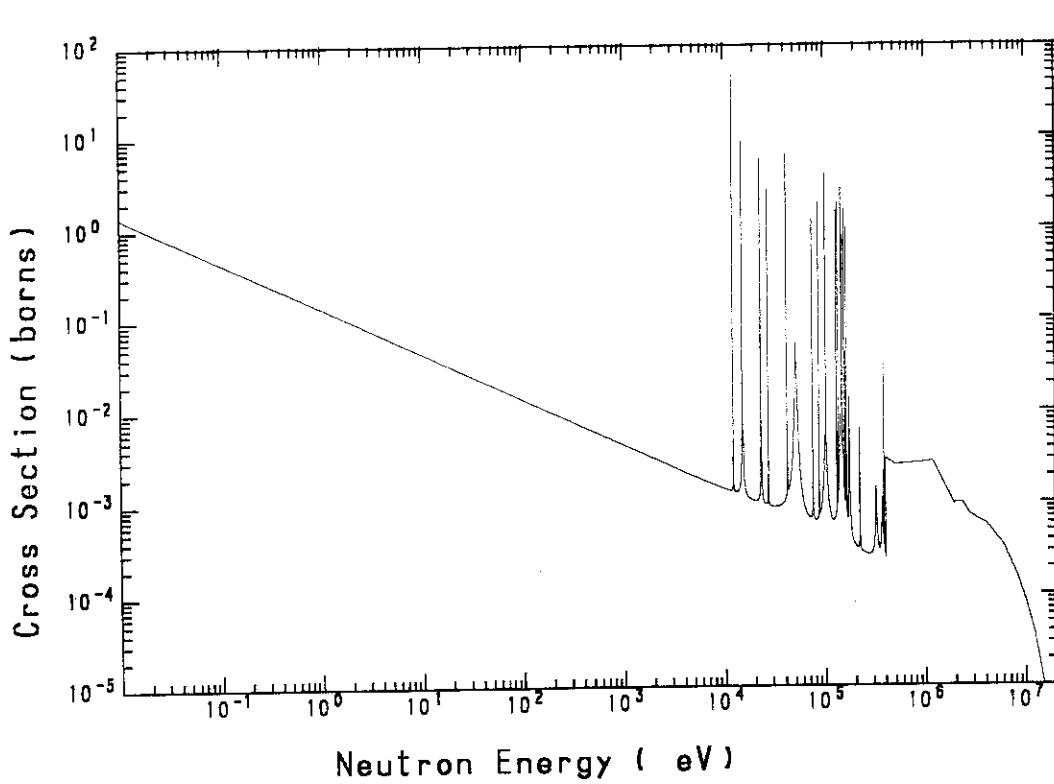
MAT=2204
MT= 1





^{44}Ca
(n, n)

MAT=2204
MT= 2

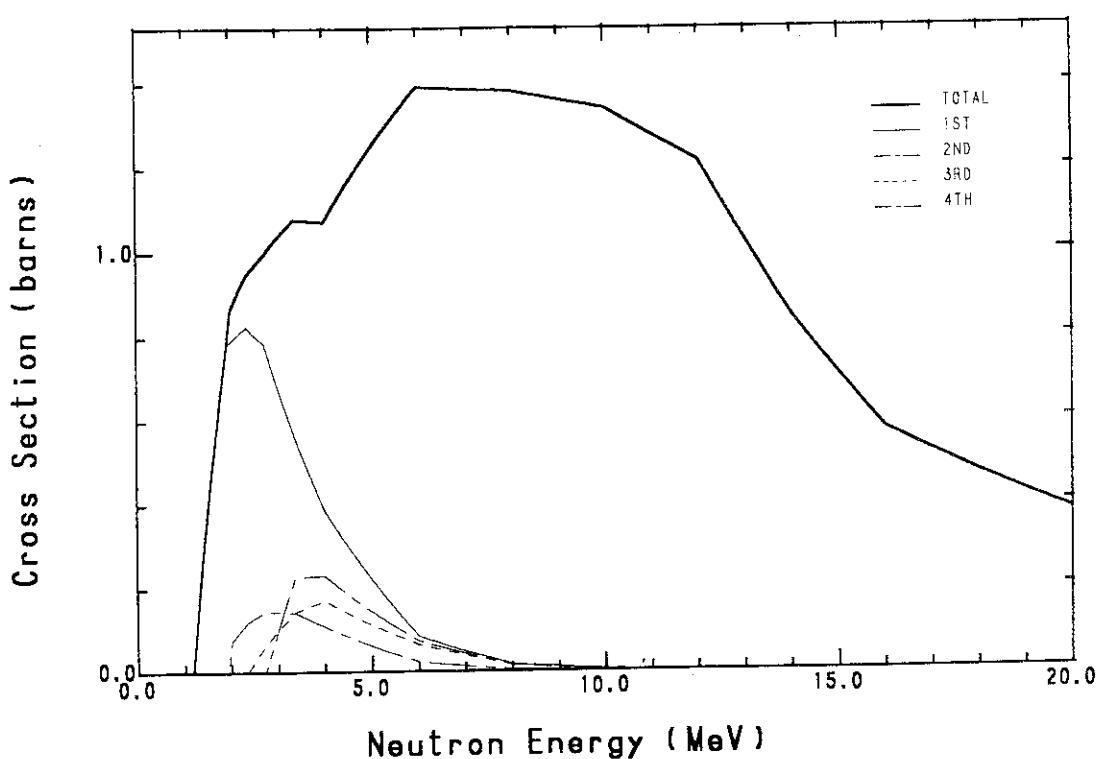


^{44}Ca
(n, γ)

MAT=2204
MT= 102

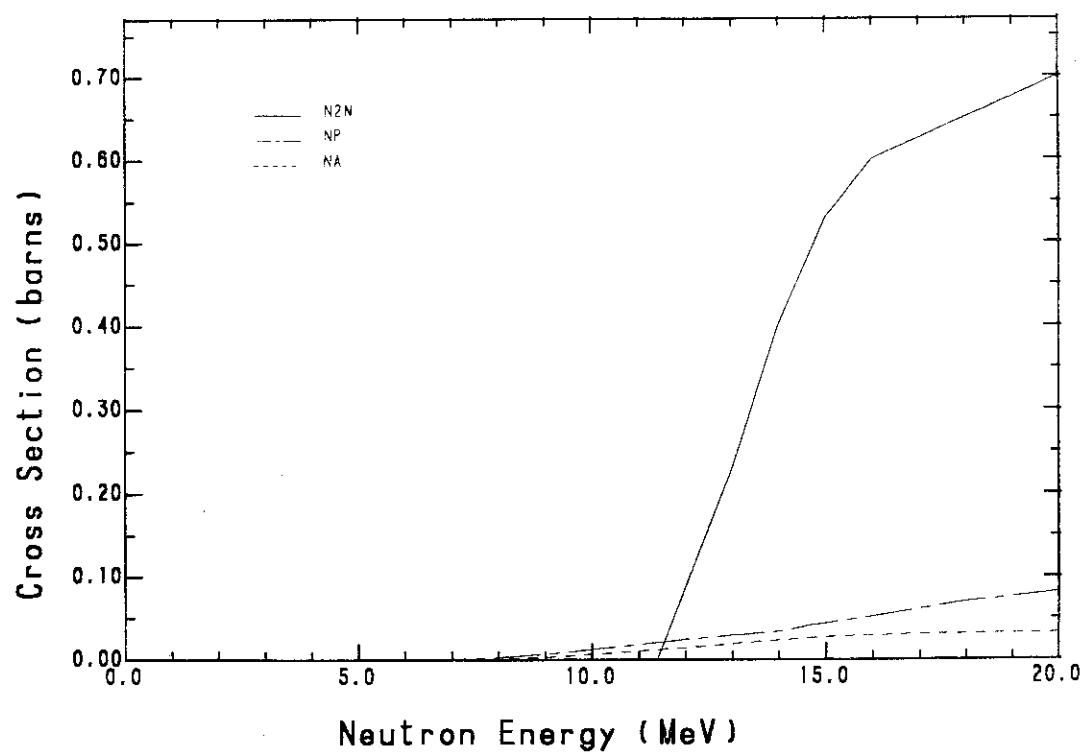
^{44}Ca
 (n, n')

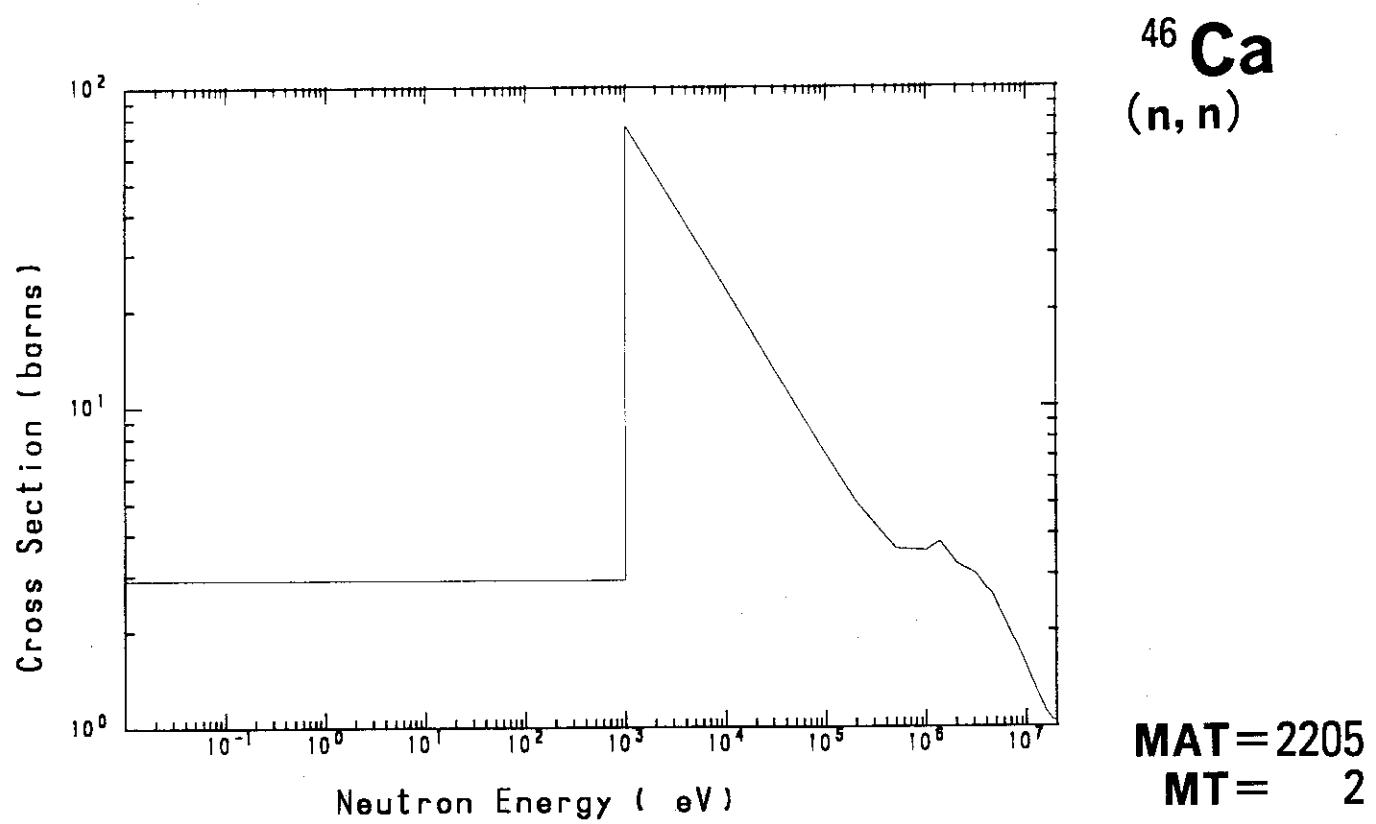
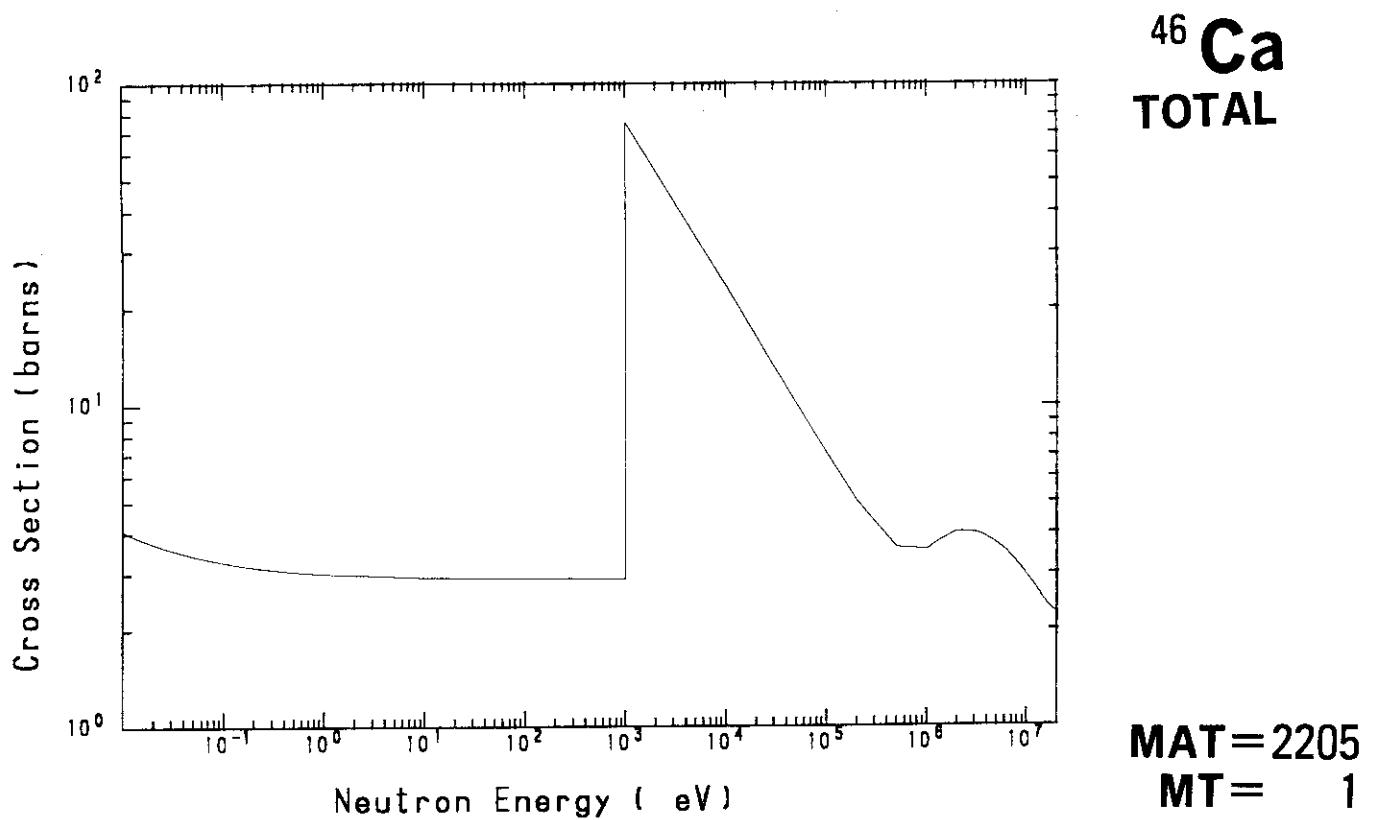
MAT=2204
MT= 4
51~54



^{44}Ca
 $(n, 2n)$
 (n, p)
 (n, α)

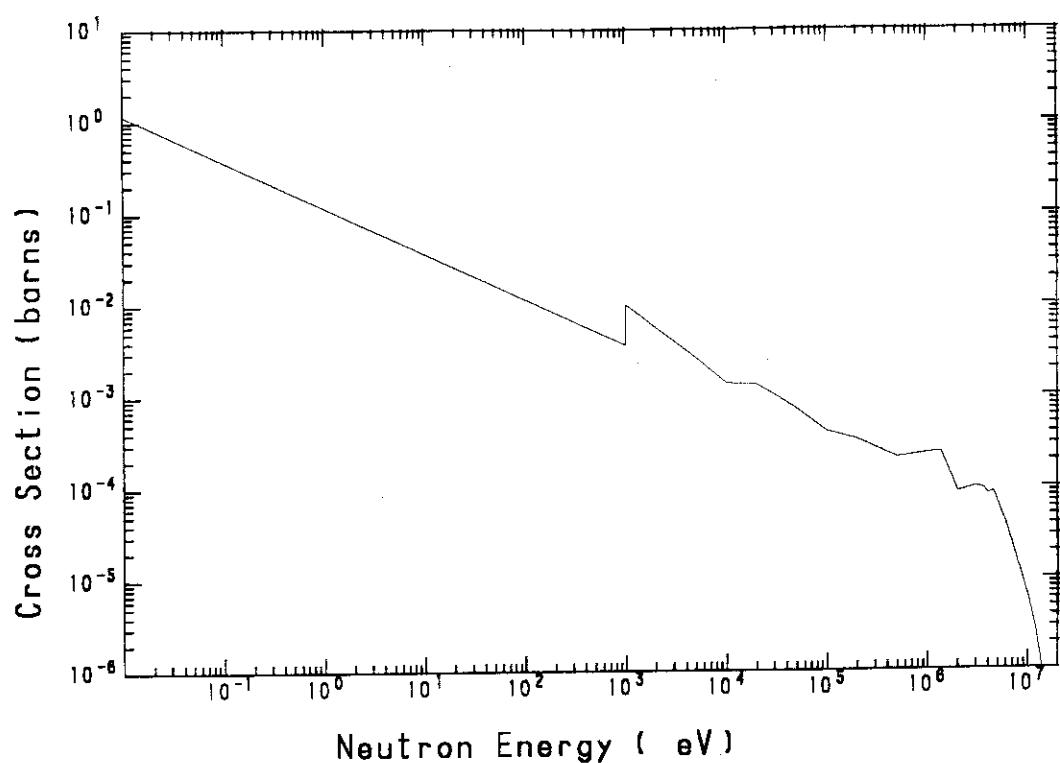
MAT=2204
MT= 16
103
107





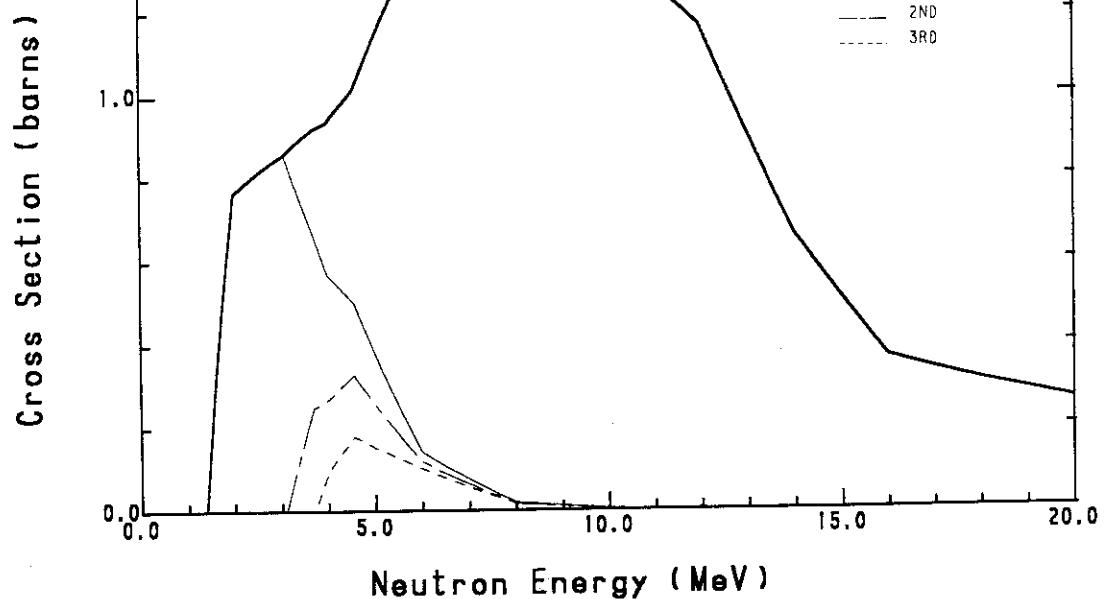
^{46}Ca
(n, γ)

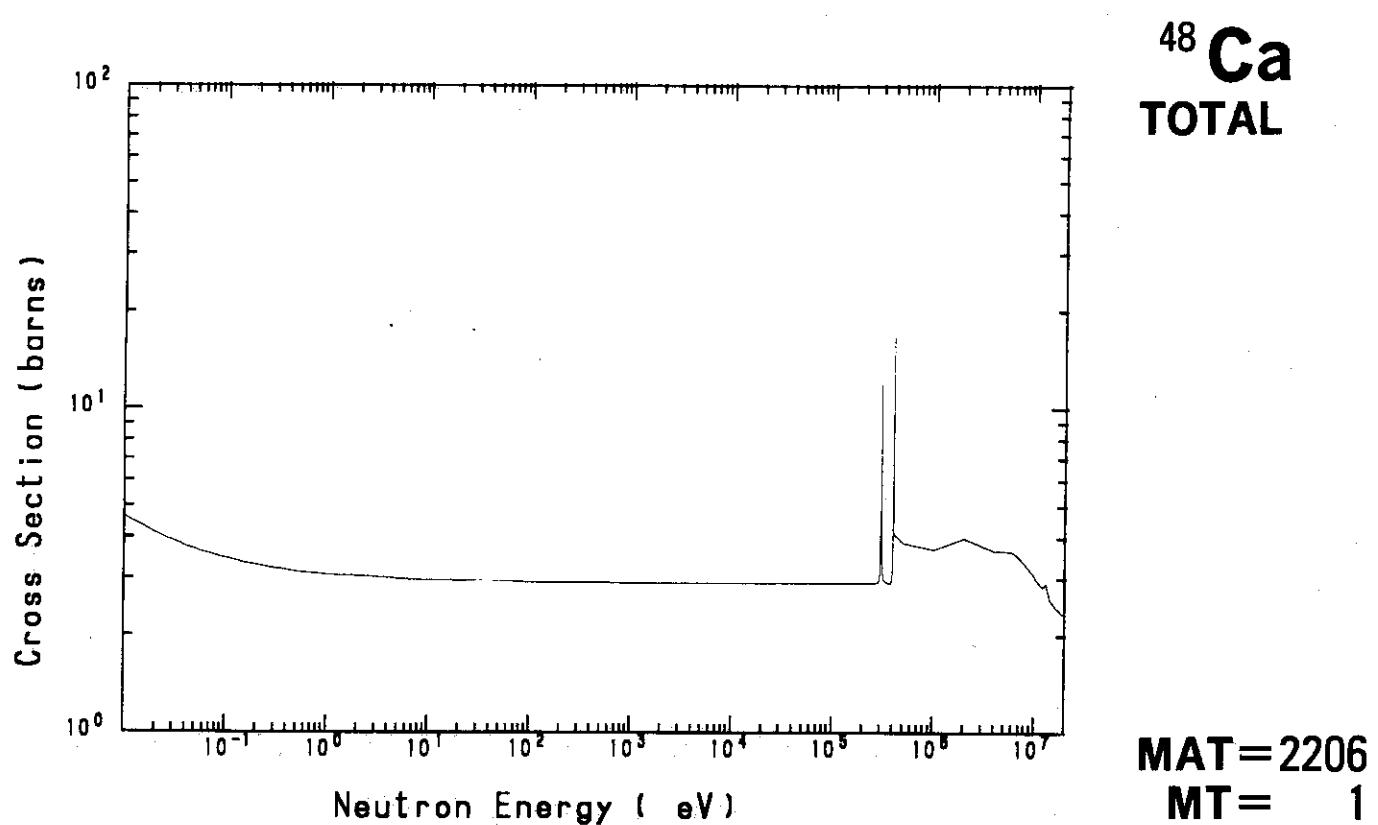
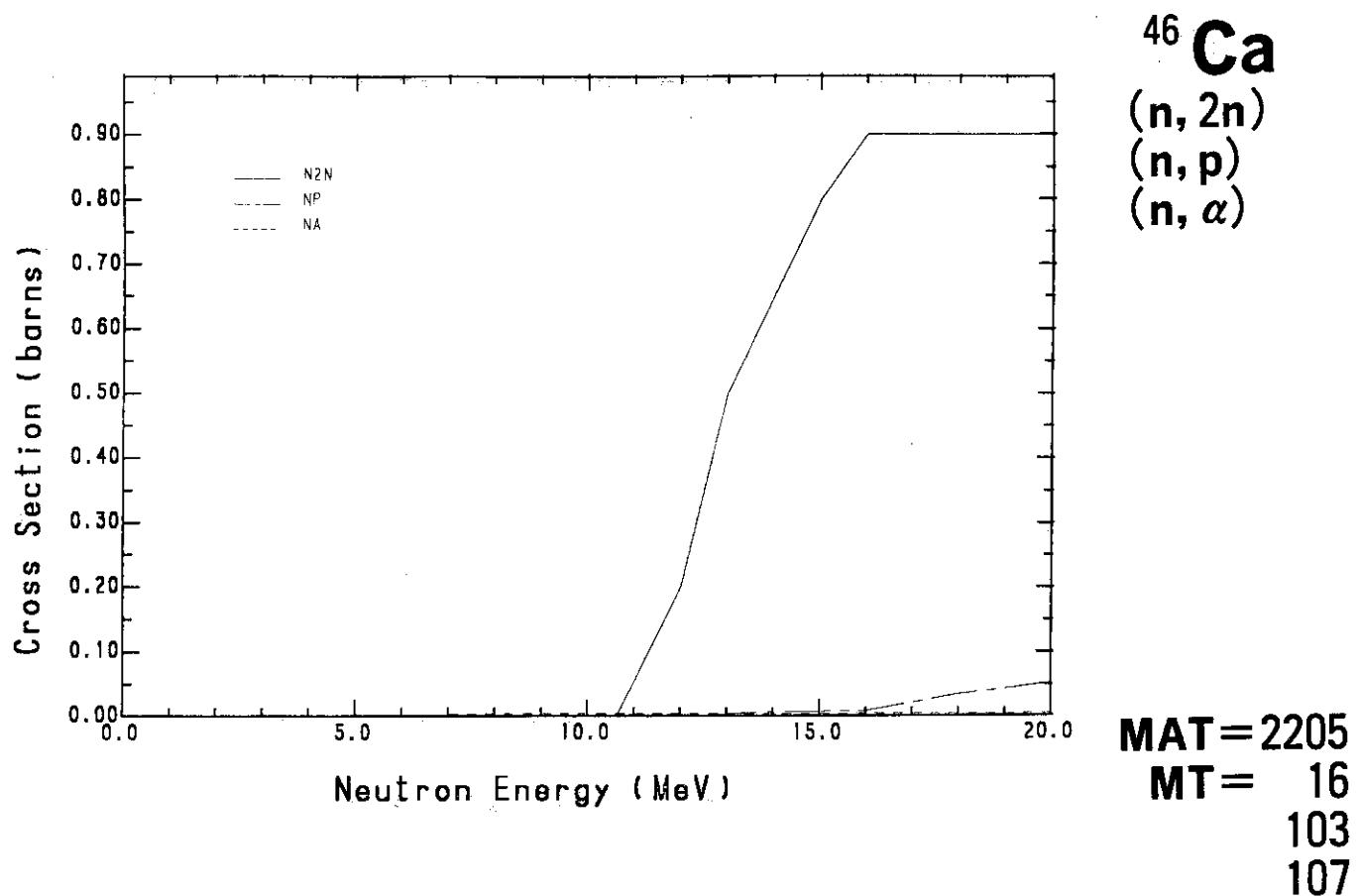
MAT=2205
MT= 102



^{46}Ca
(n, n')

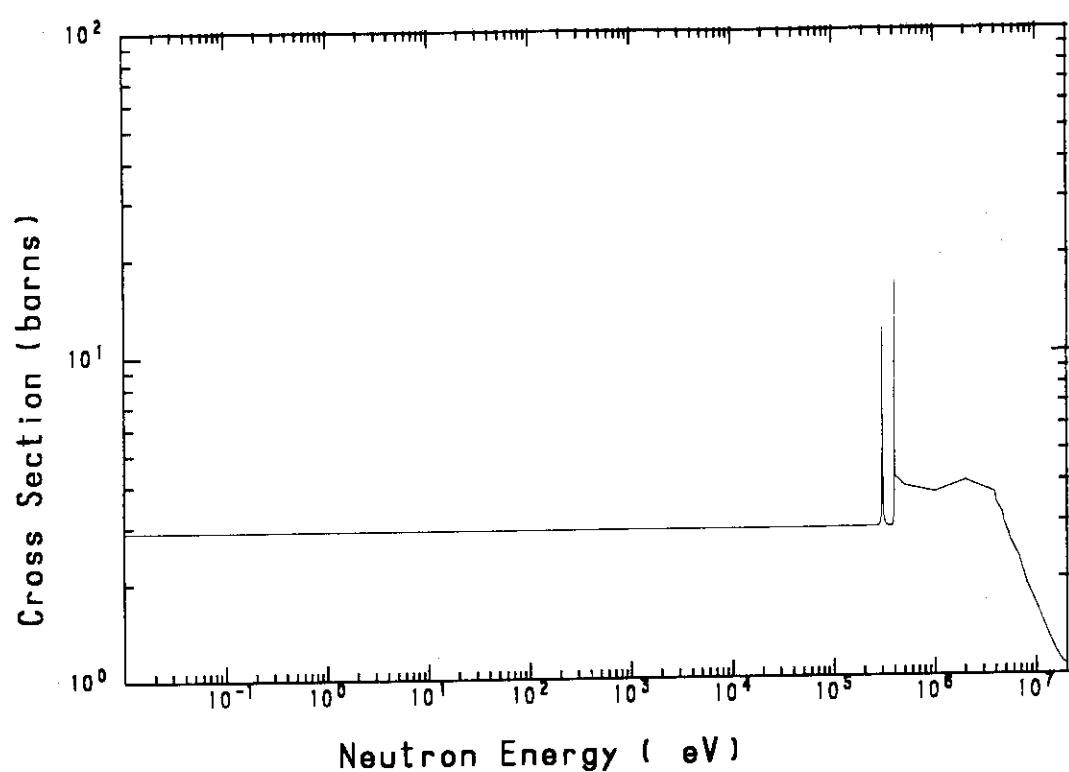
MAT=2205
MT= 4
51~53





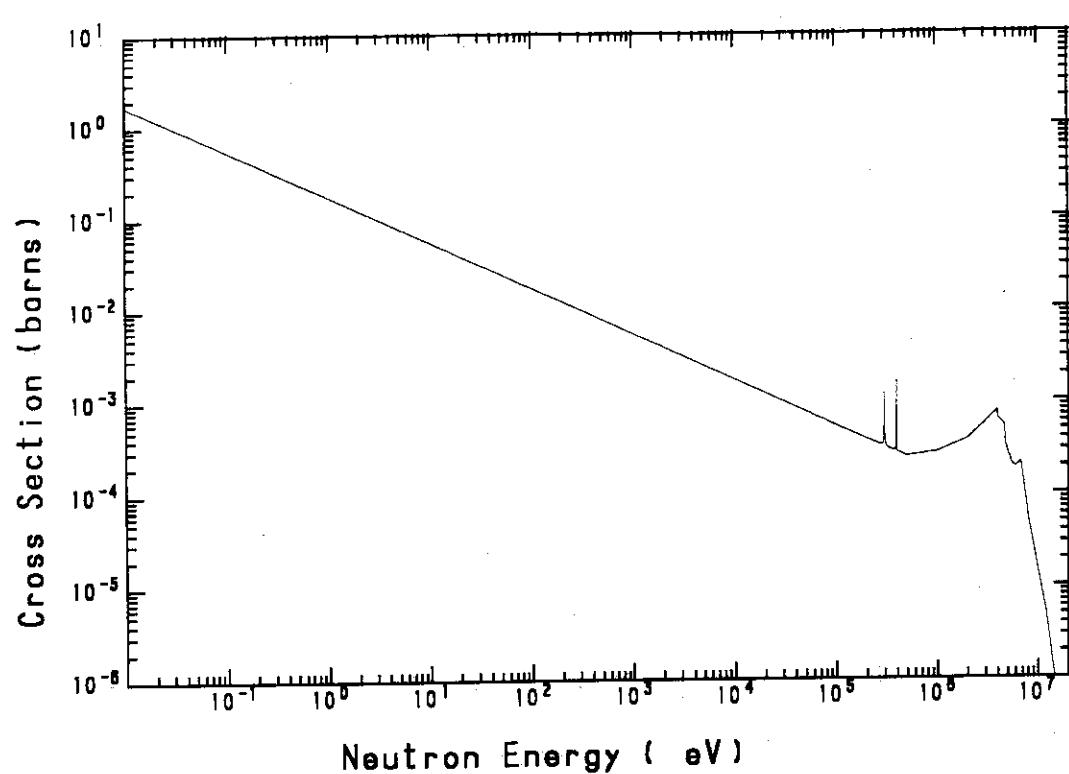
^{48}Ca
(n, n)

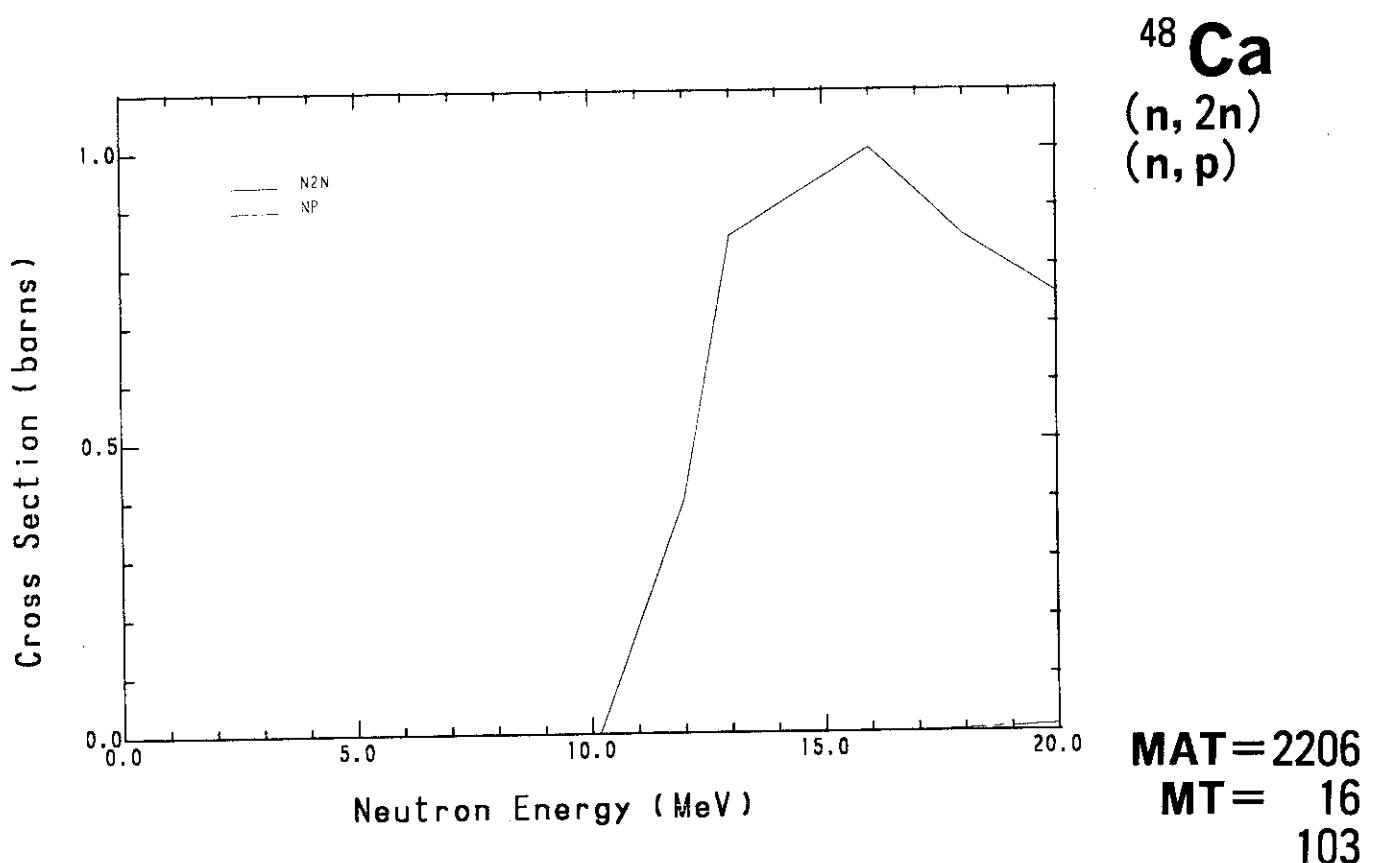
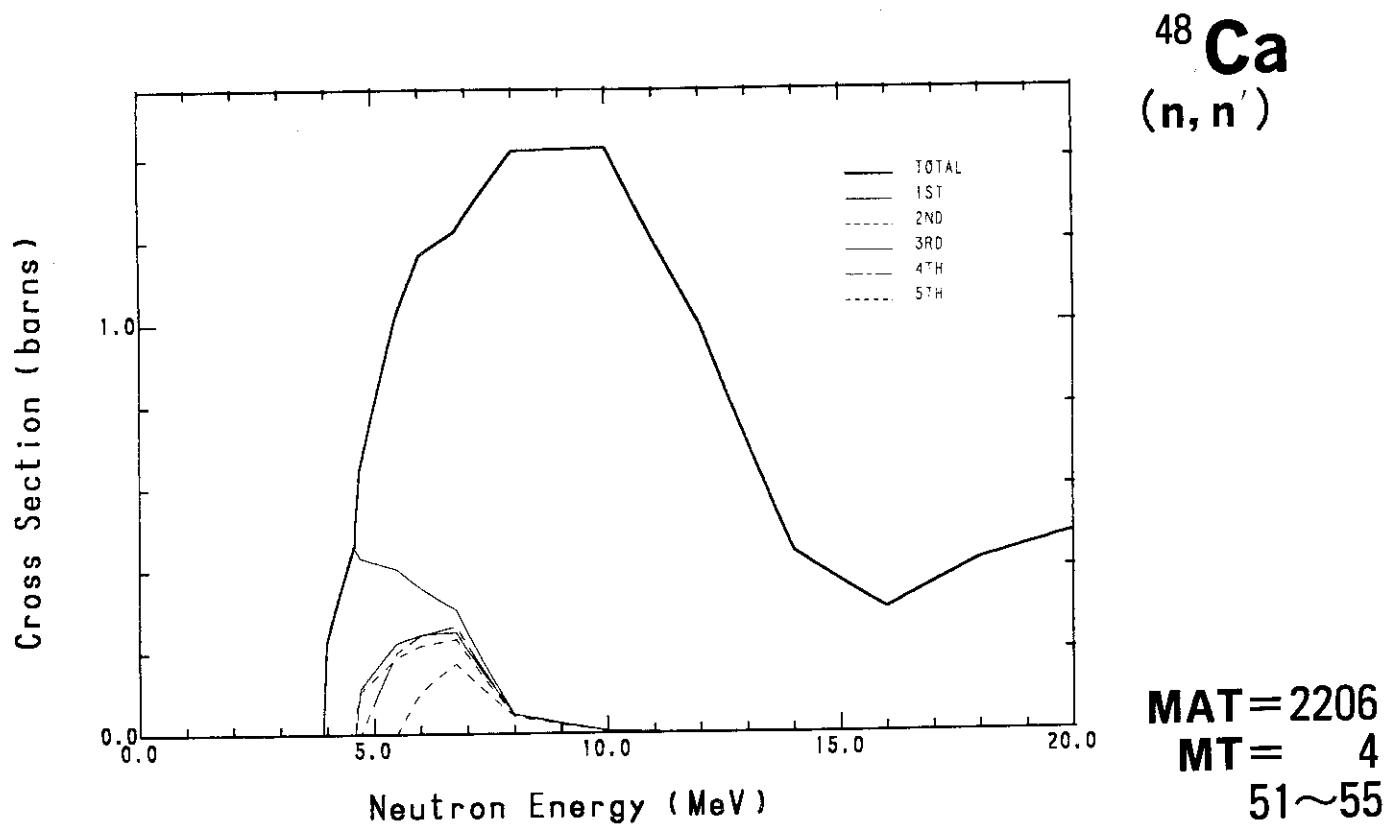
MAT=2206
MT= 2



^{48}Ca
(n, γ)

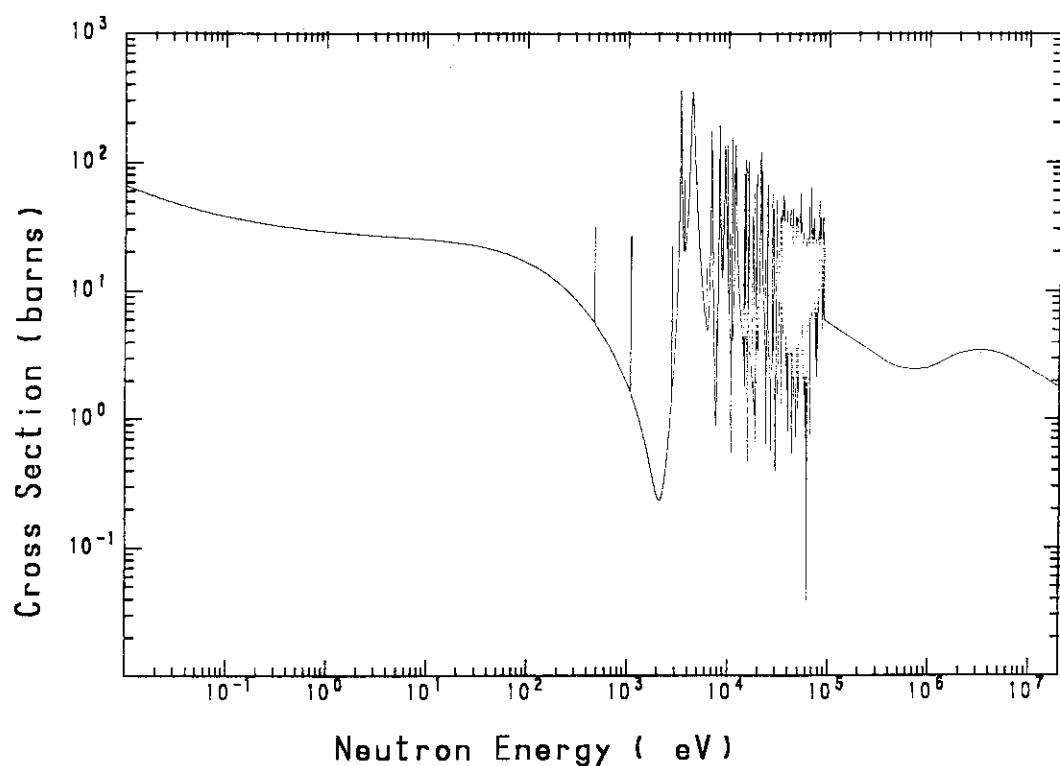
MAT=2206
MT= 102





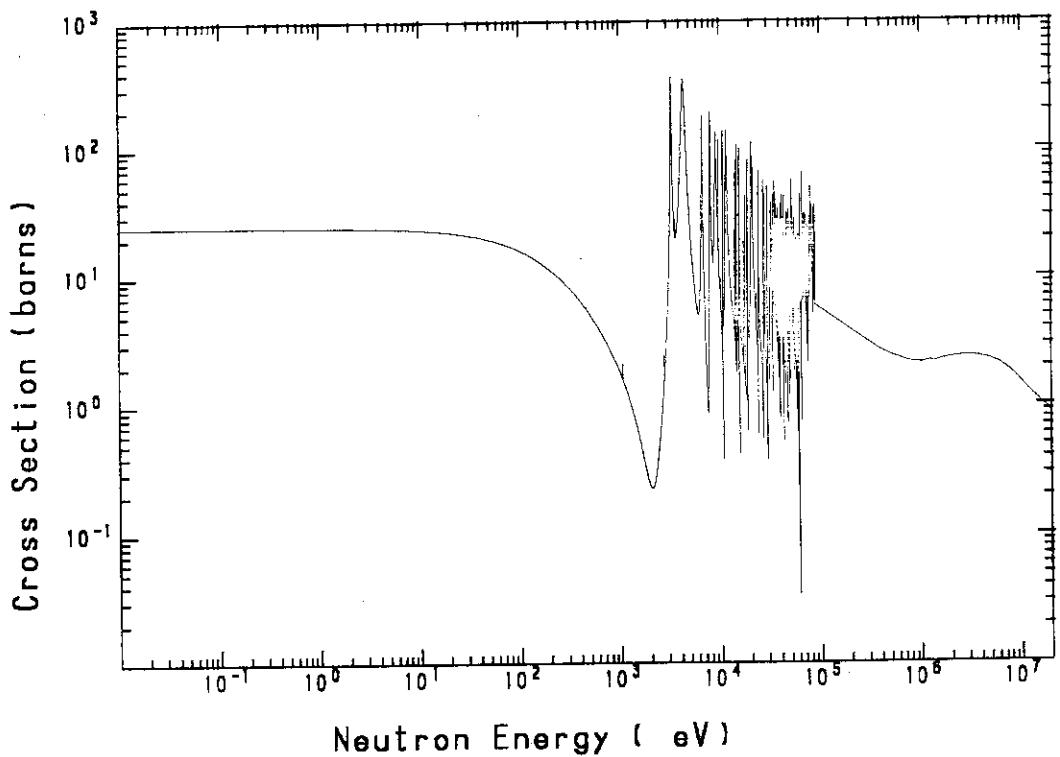
^{45}Sc
TOTAL

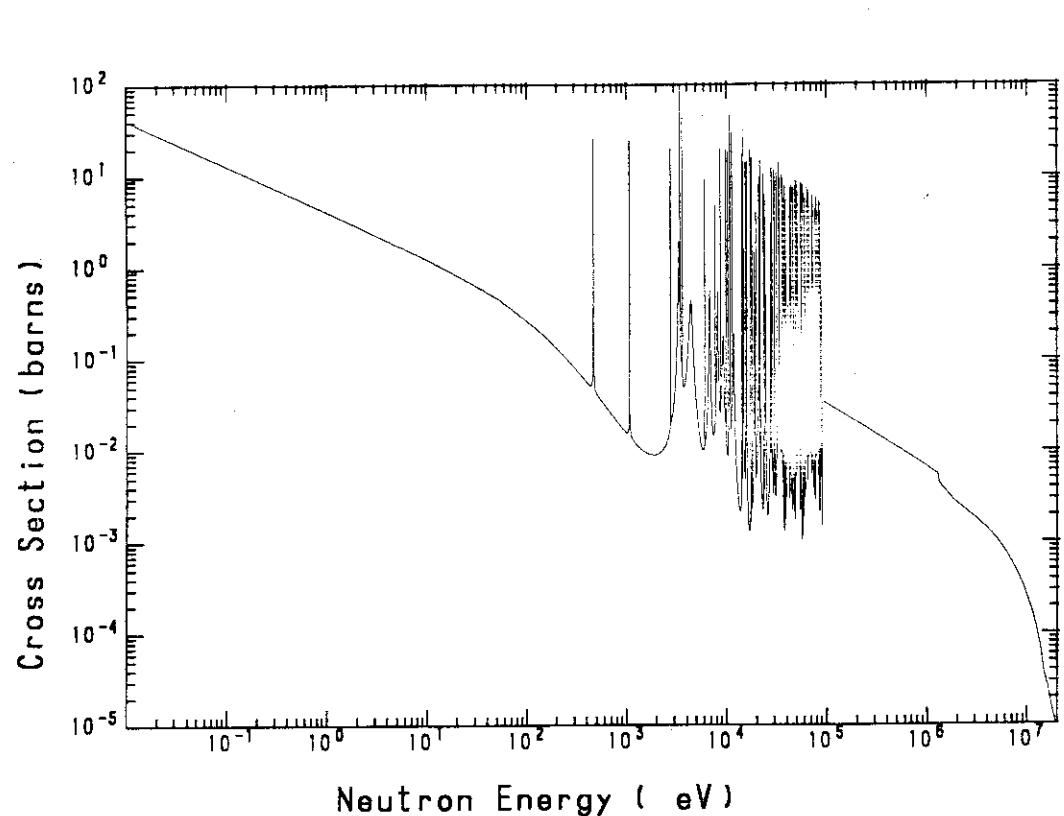
MAT=2211
MT= 1



^{45}Sc
(n, n)

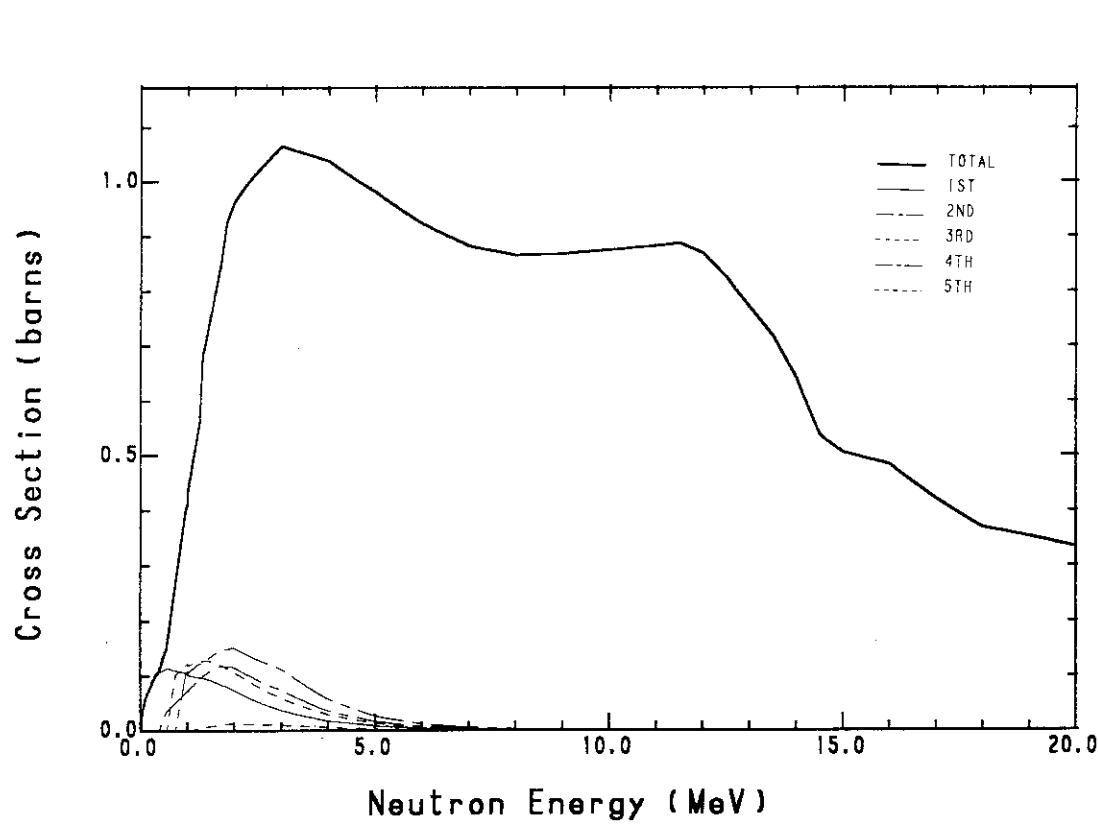
MAT=2211
MT= 2





^{45}Sc
(n, γ)

MAT=2211
MT= 102

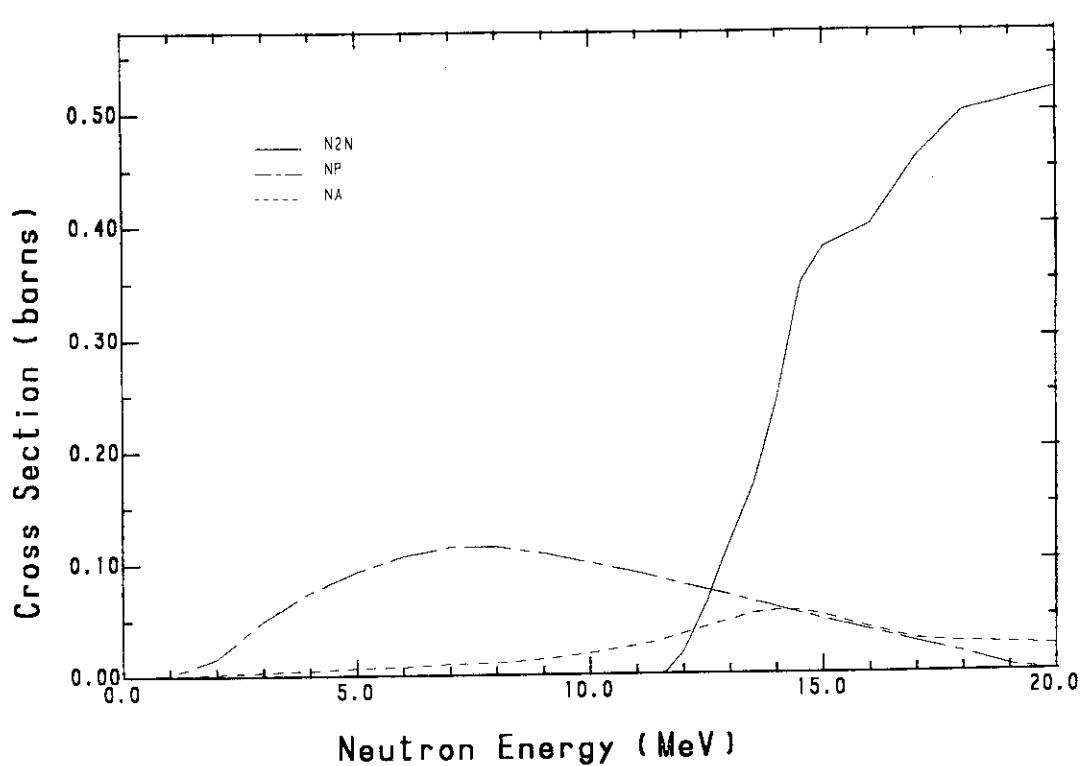


^{45}Sc
(n, n')

MAT=2211
MT= 4
51~55

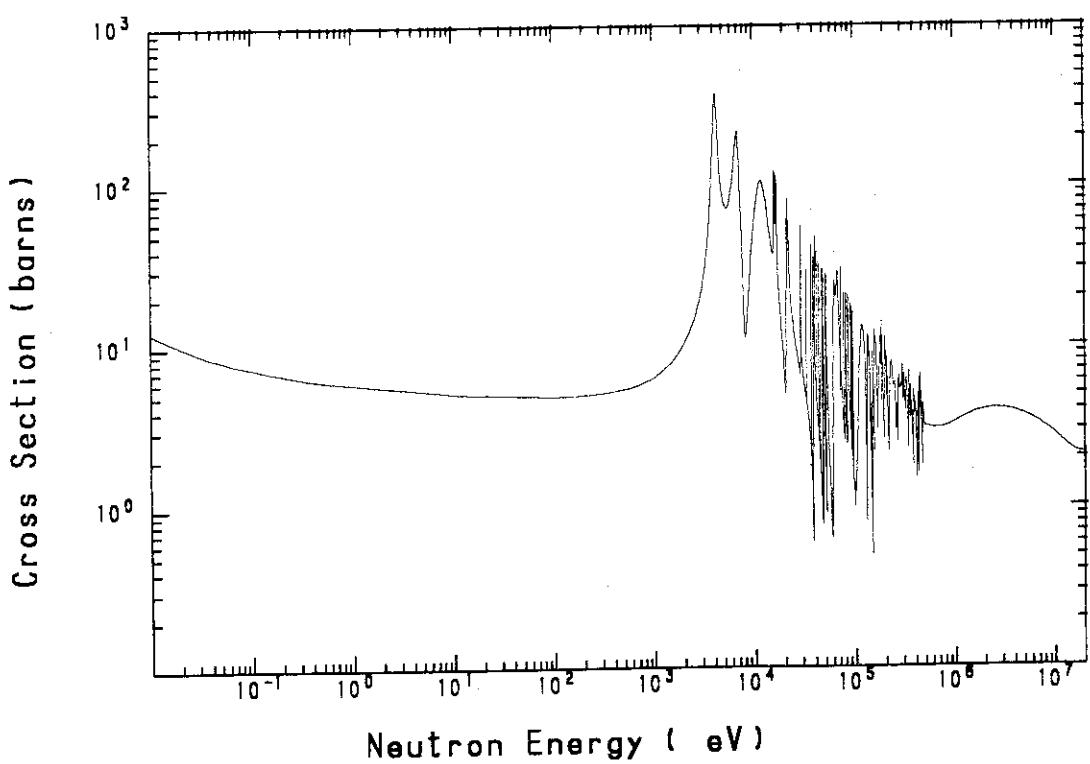
^{45}Sc
 $(n, 2n)$
 (n, p)
 (n, α)

MAT=2211
MT= 16
103
107

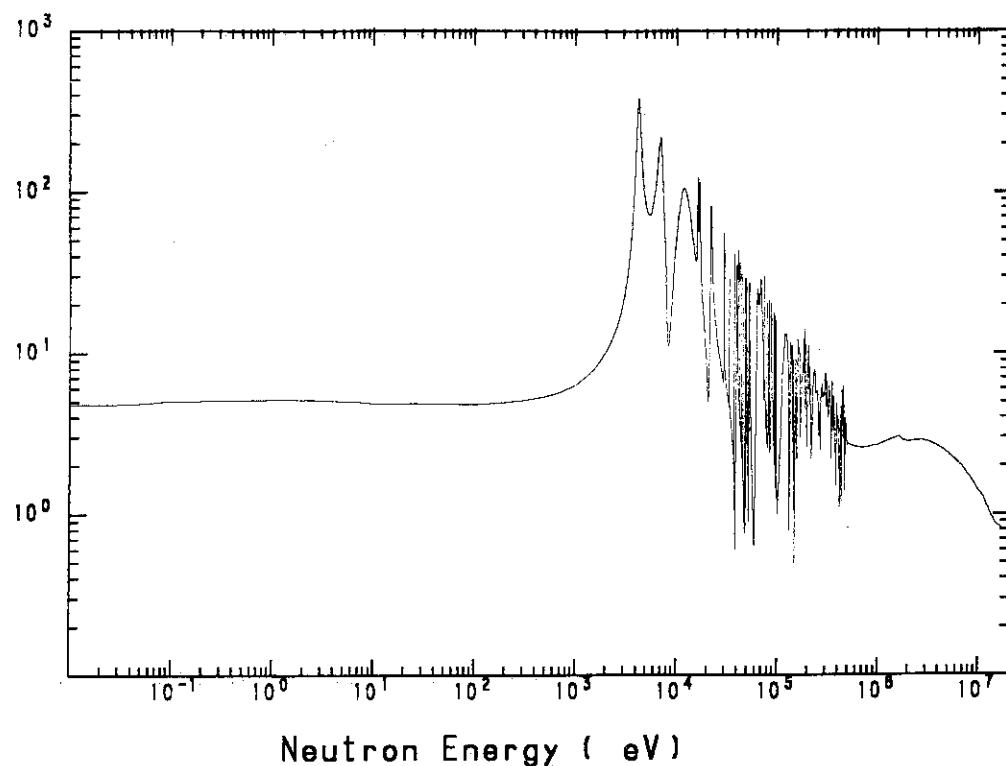


^{51}V
TOTAL

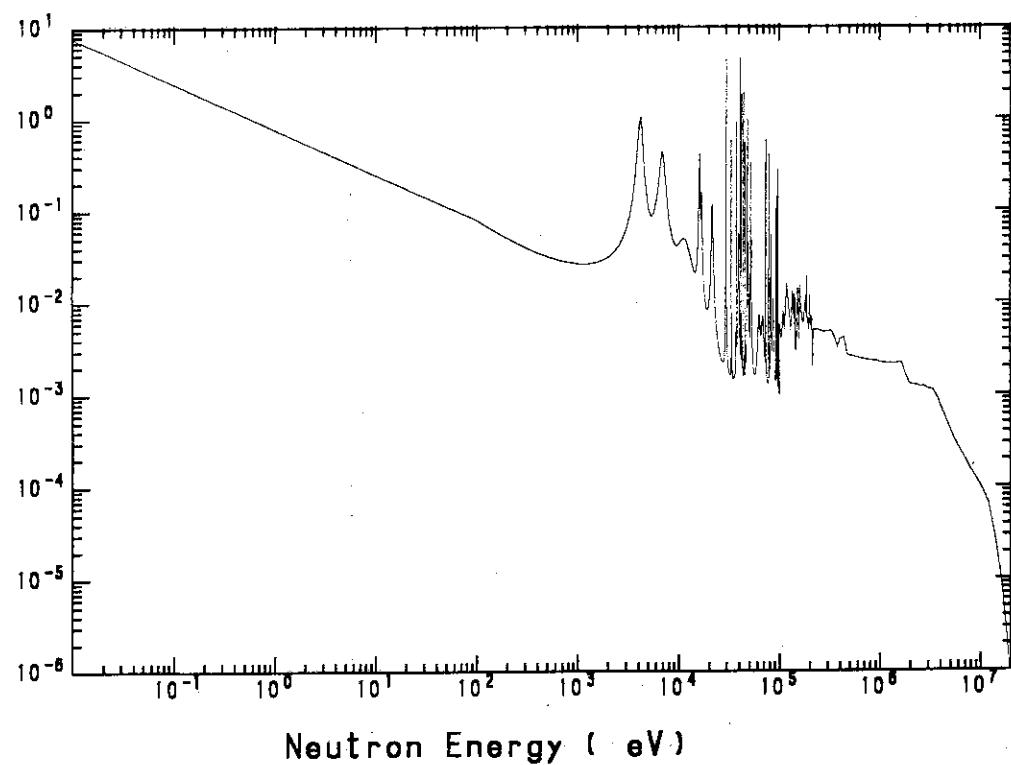
MAT=2231
MT= 1



Cross Section (barns)

 ^{51}V
(n, n)MAT=2231
MT= 2

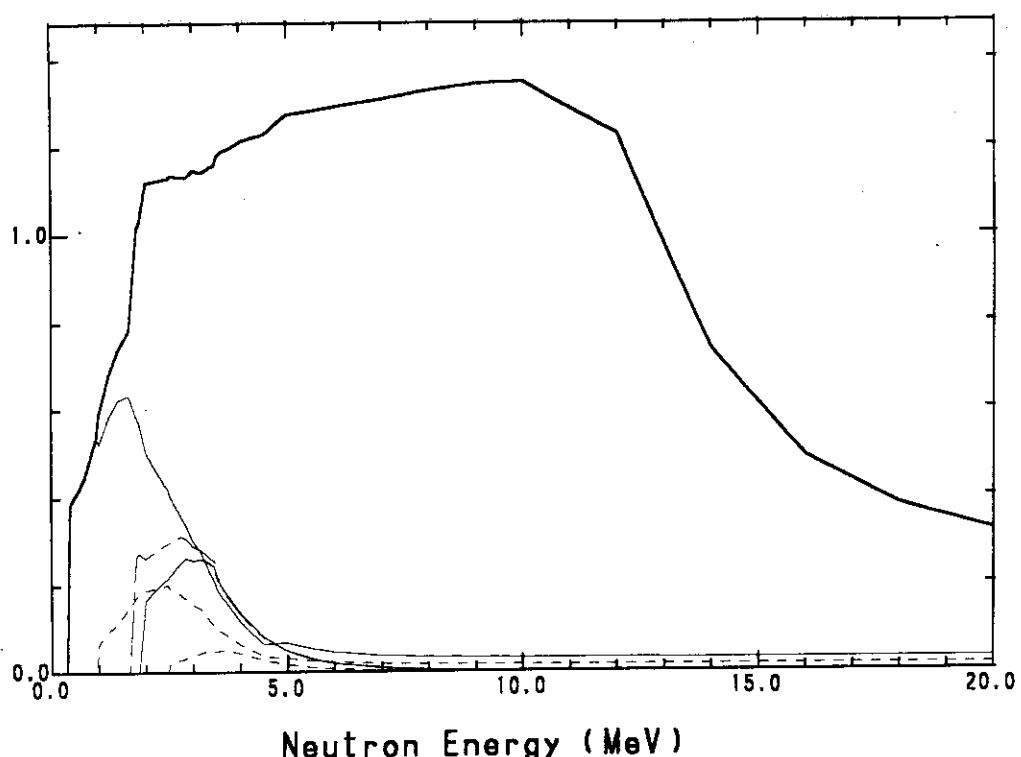
Cross Section (barns)

 ^{51}V
(n, γ)MAT=2231
MT= 102

^{51}V
 (n, n')

MAT=2231
MT= 4
51~55

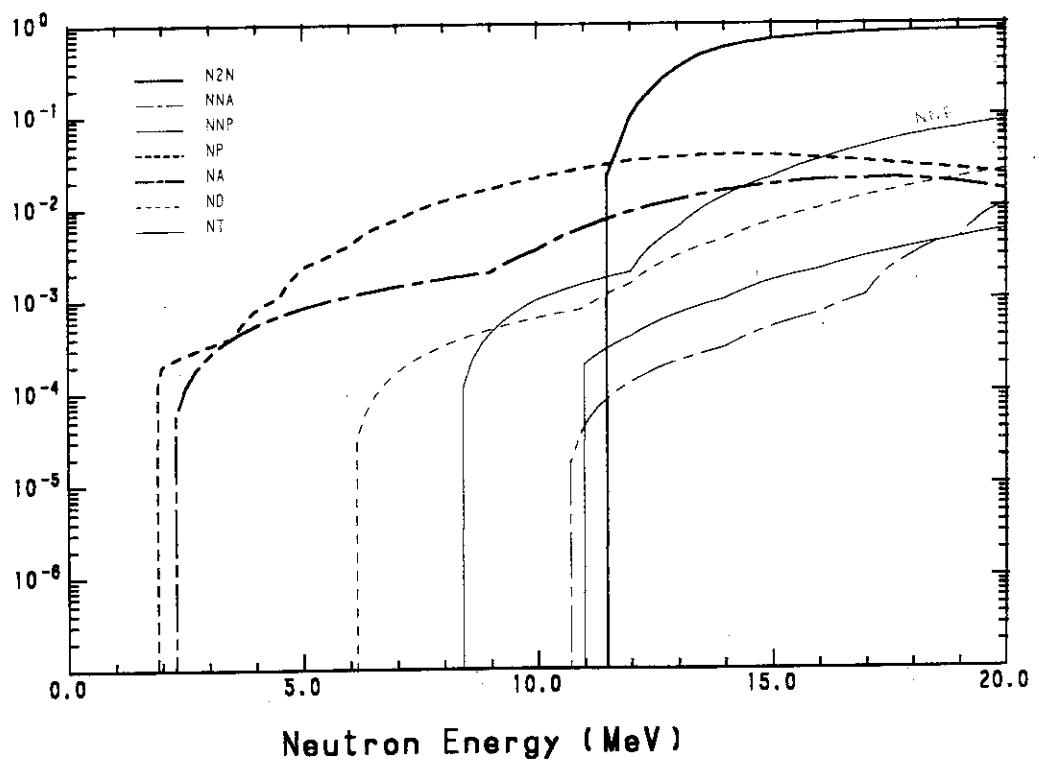
Cross Section (barns)

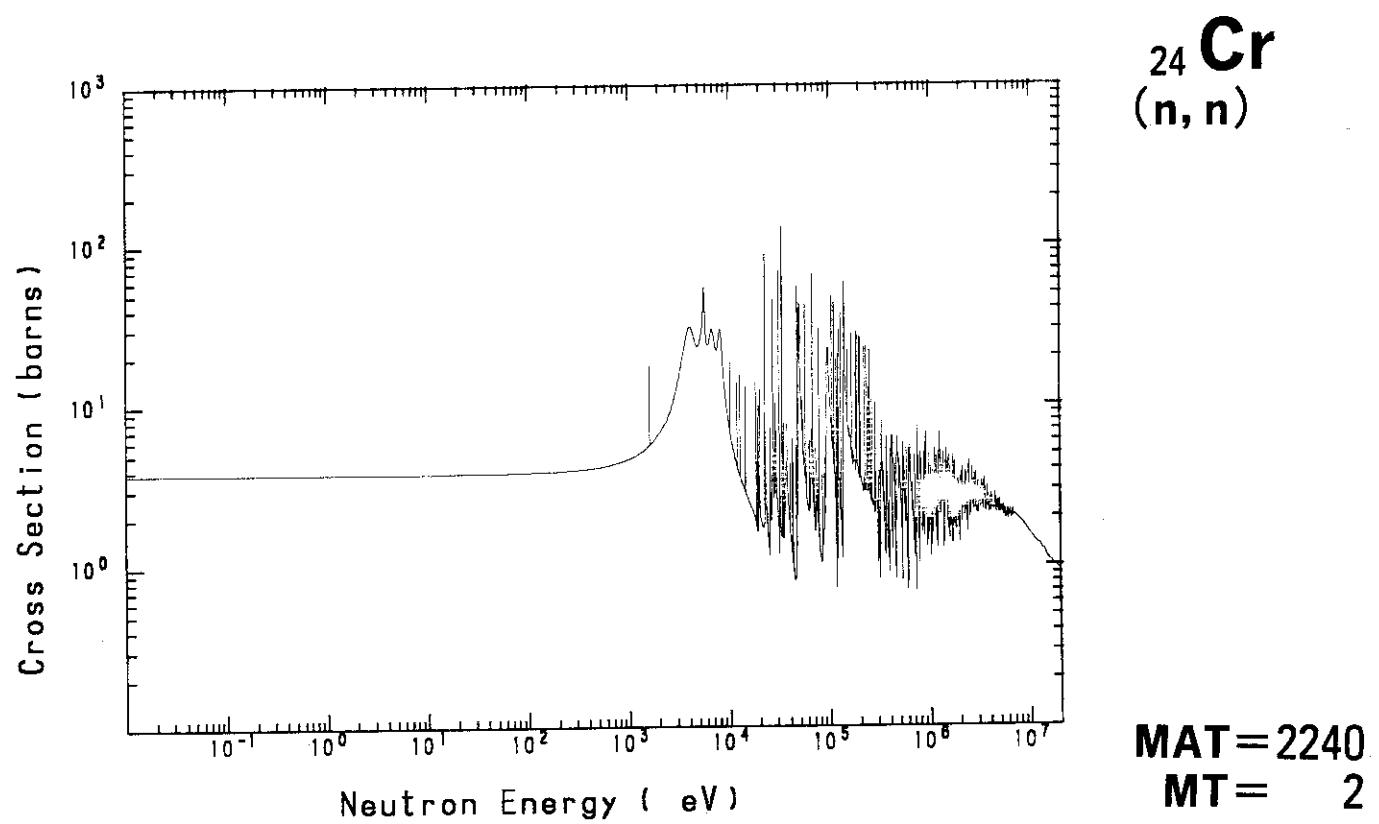
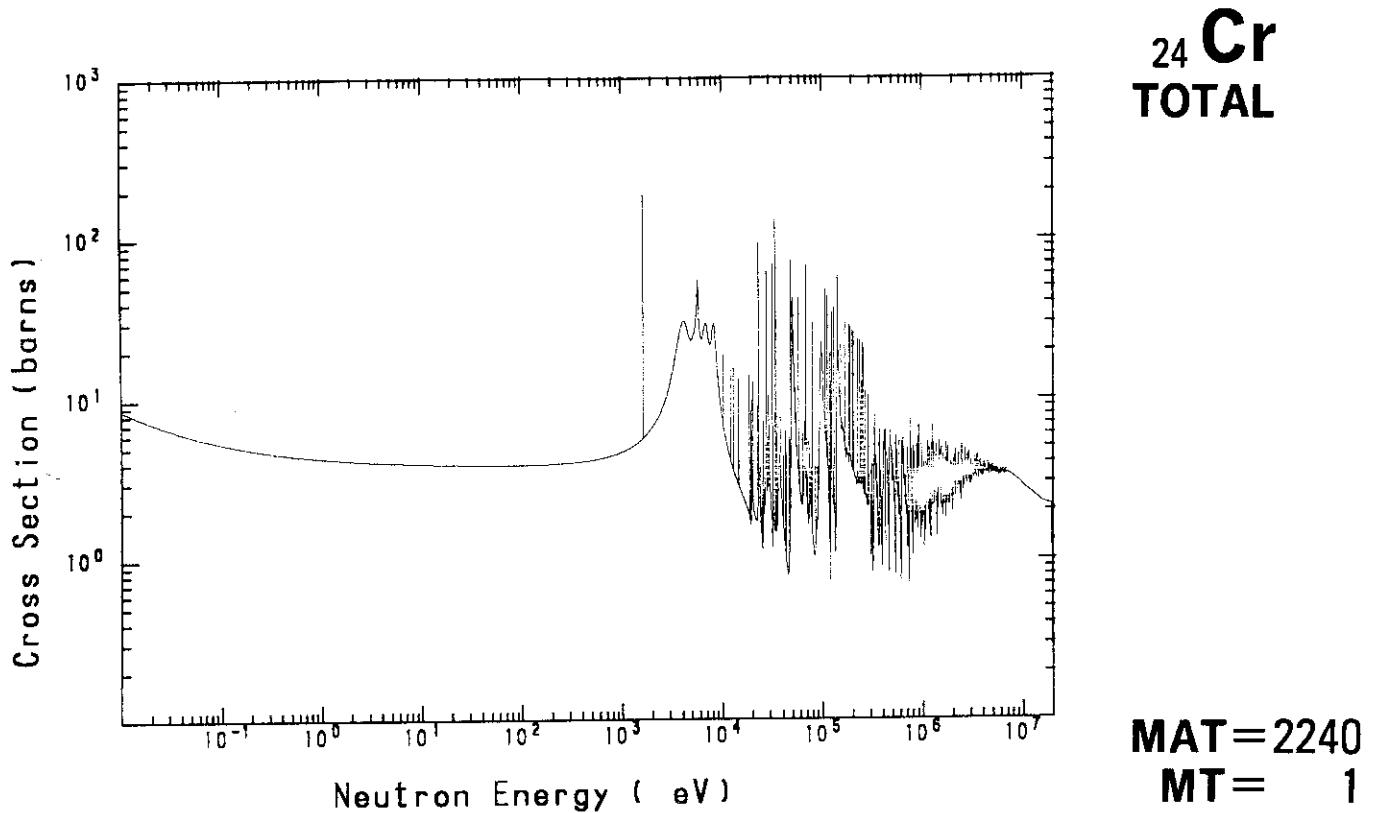


^{51}V
 $(n, 2n)$
 $(n, n' \alpha)$
 $(n, n' p)$
 (n, p)
 (n, d)
 (n, t)
 (n, α)

MAT=2231
MT= 16
22
28
103
104
105
107

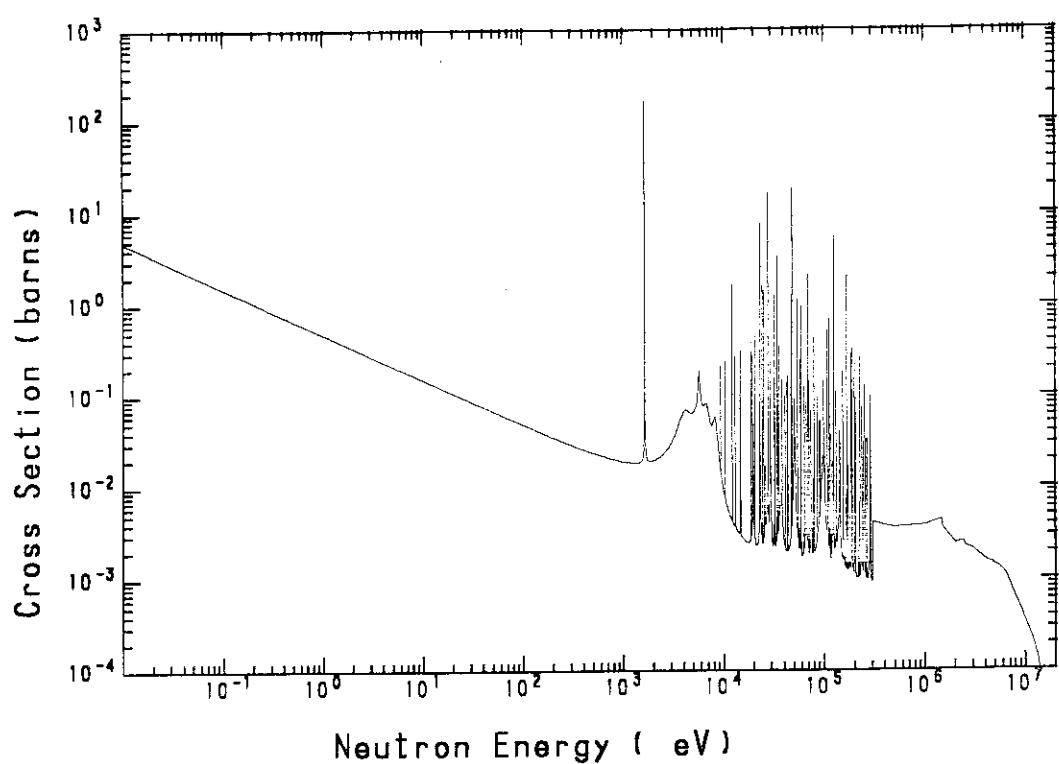
Cross Section (barns)





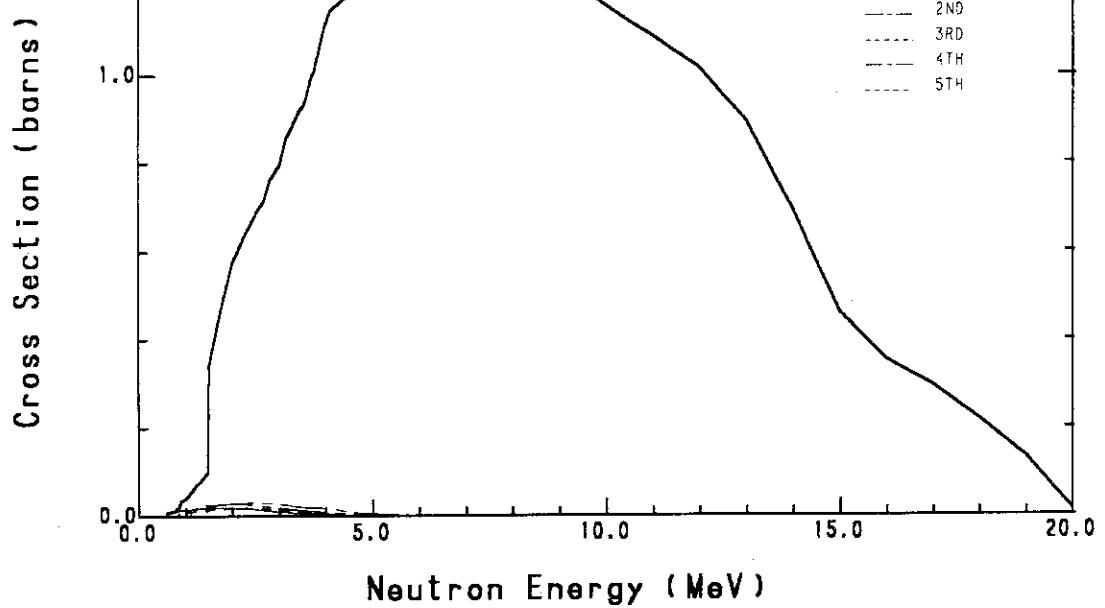
^{24}Cr
(n, γ)

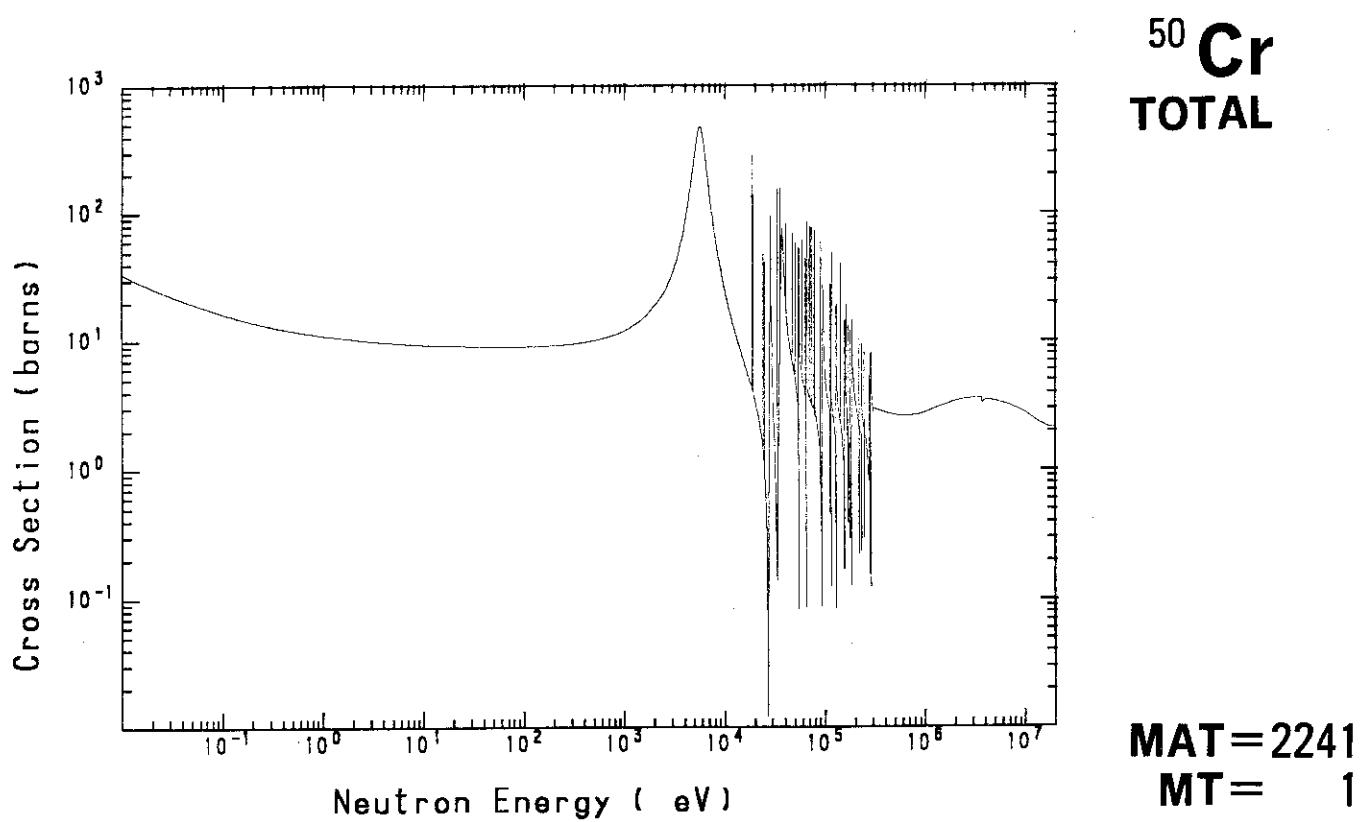
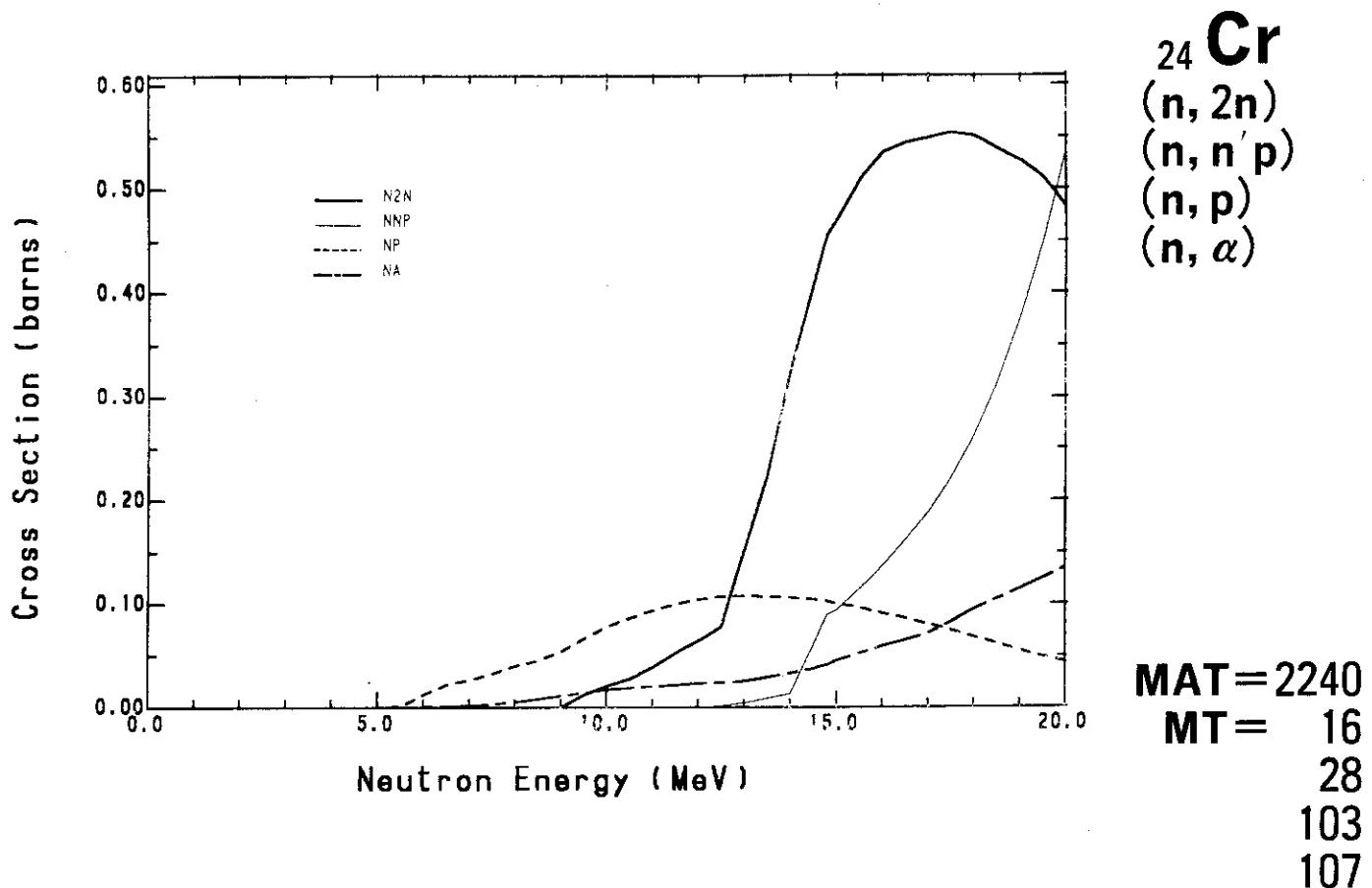
MAT=2240
MT = 102



^{24}Cr
(n, n')

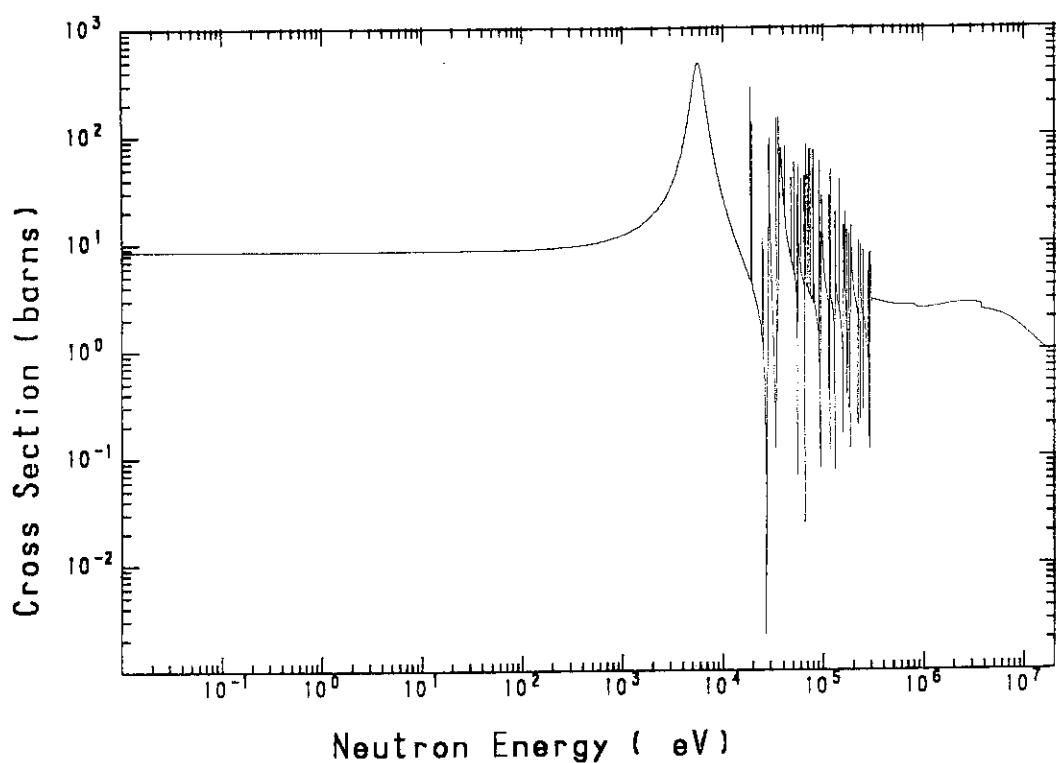
MAT=2240
MT = 4
51~55





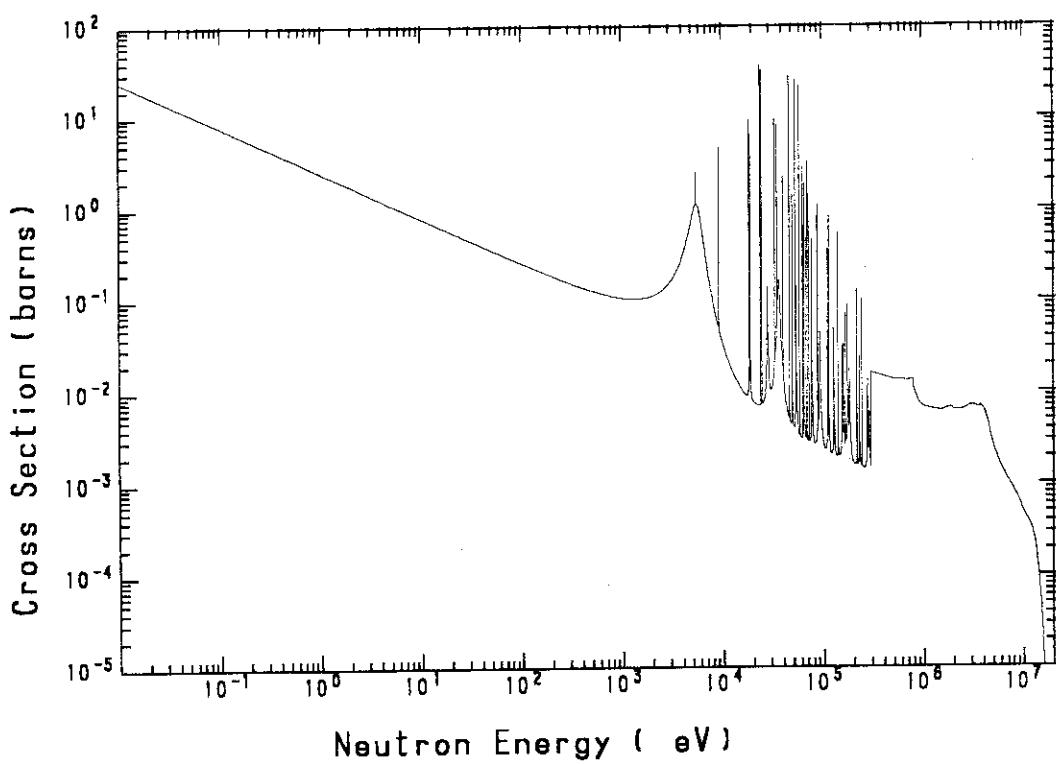
50 Cr
 (n, n)

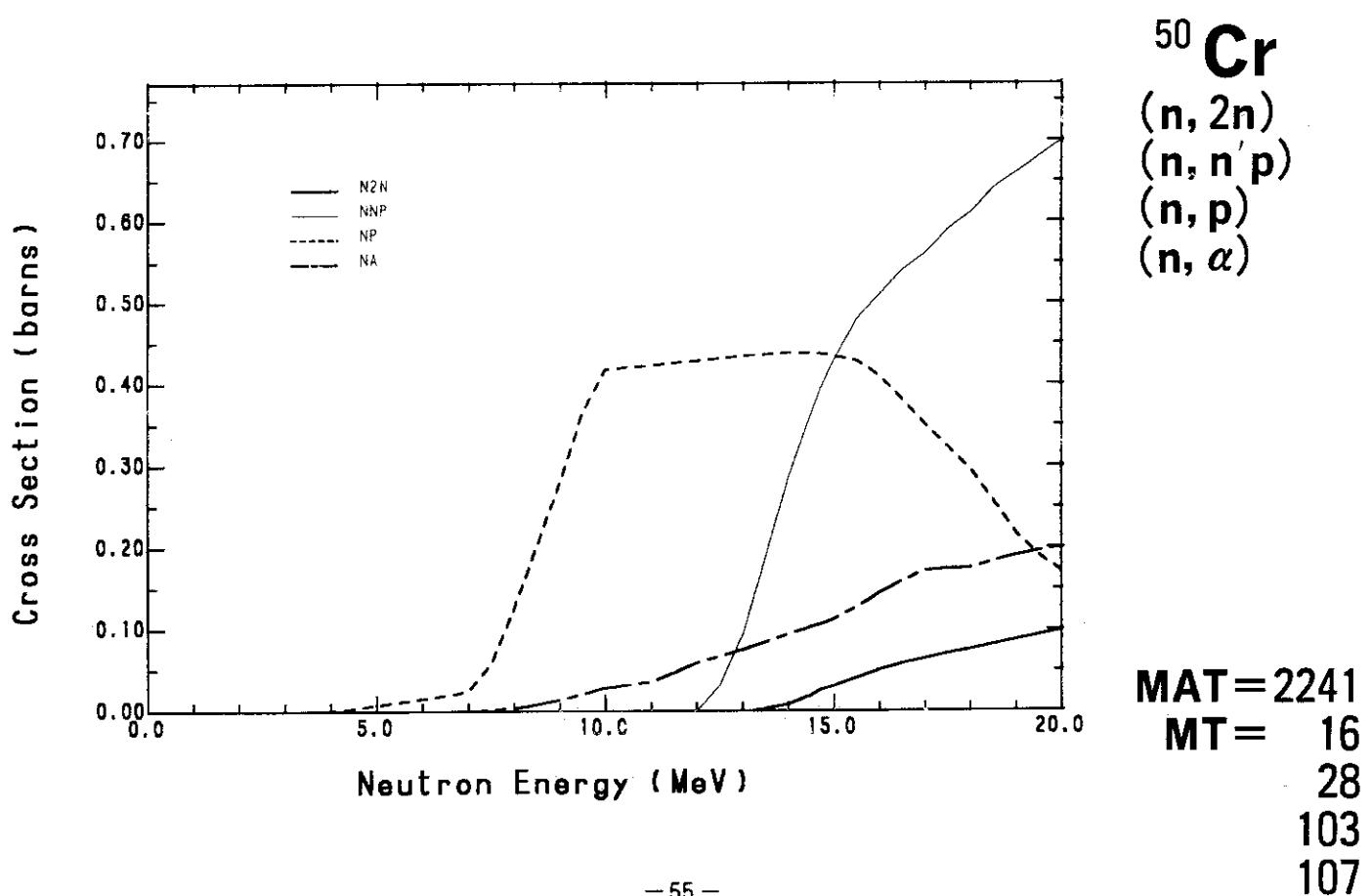
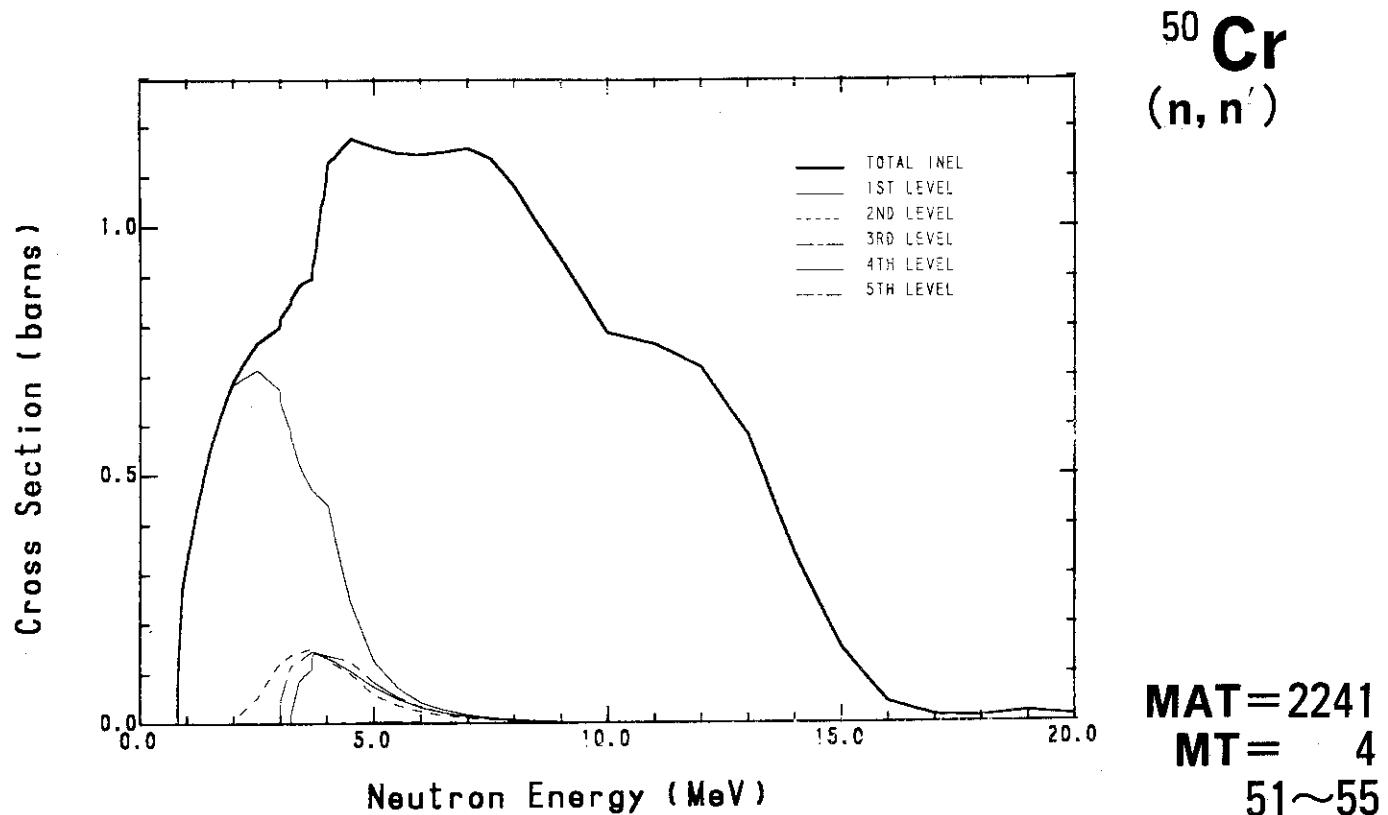
MAT=2241
 MT = 2



50 Cr
 (n, γ)

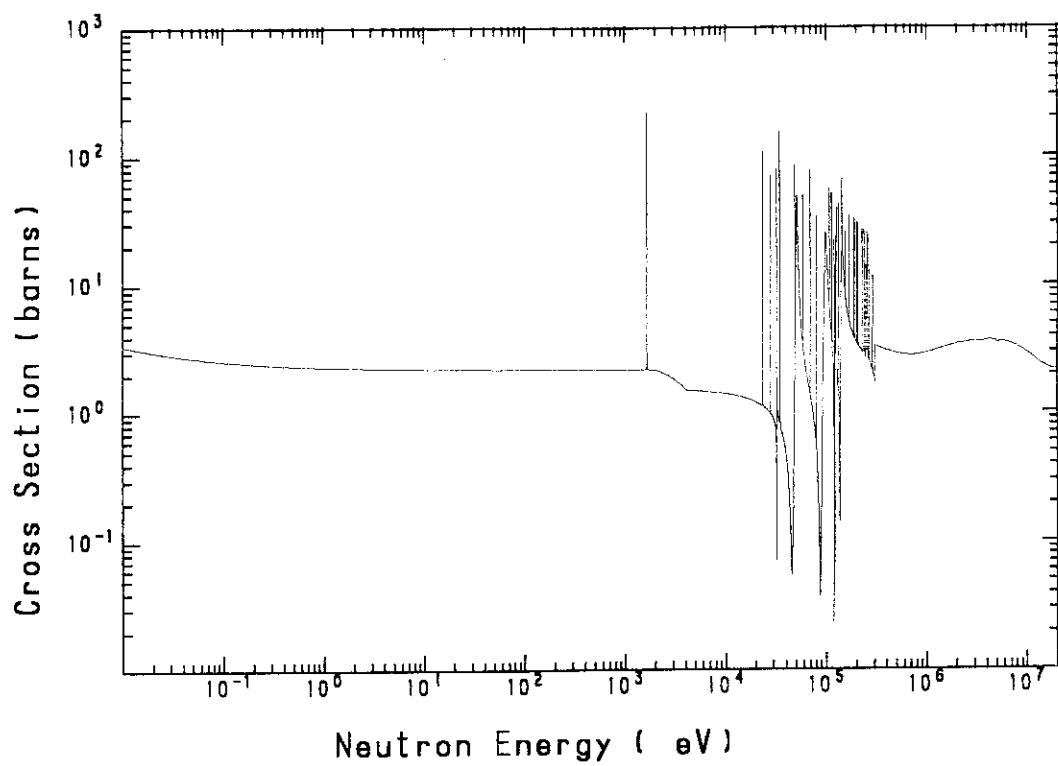
MAT=2241
 MT = 102





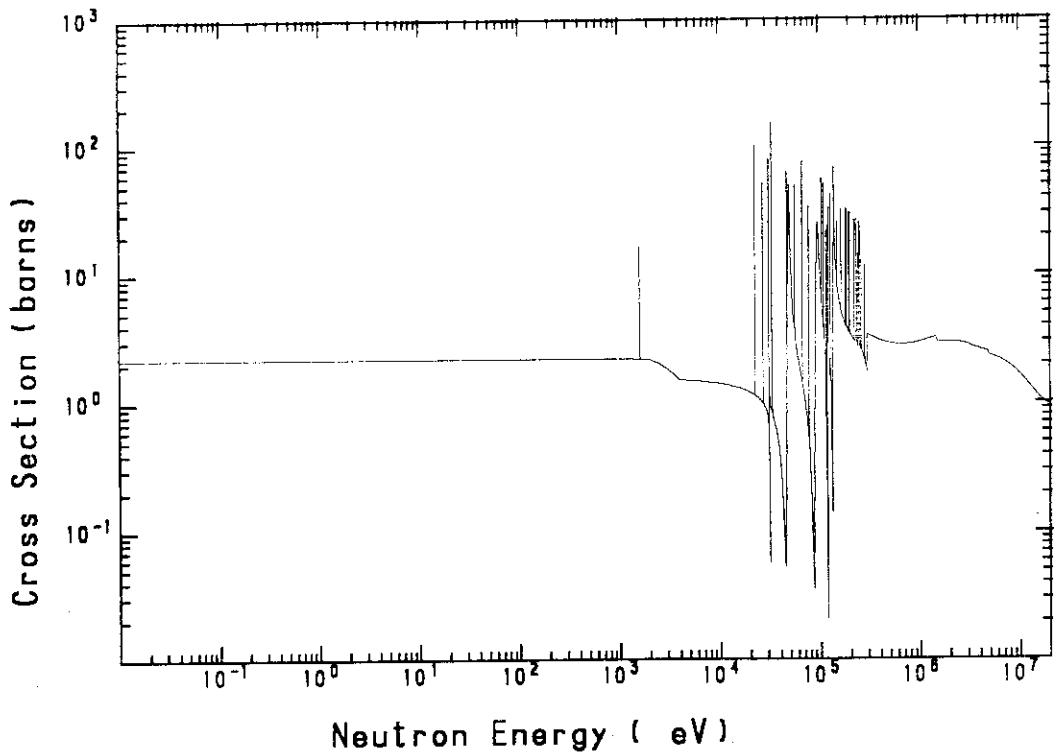
^{52}Cr
TOTAL

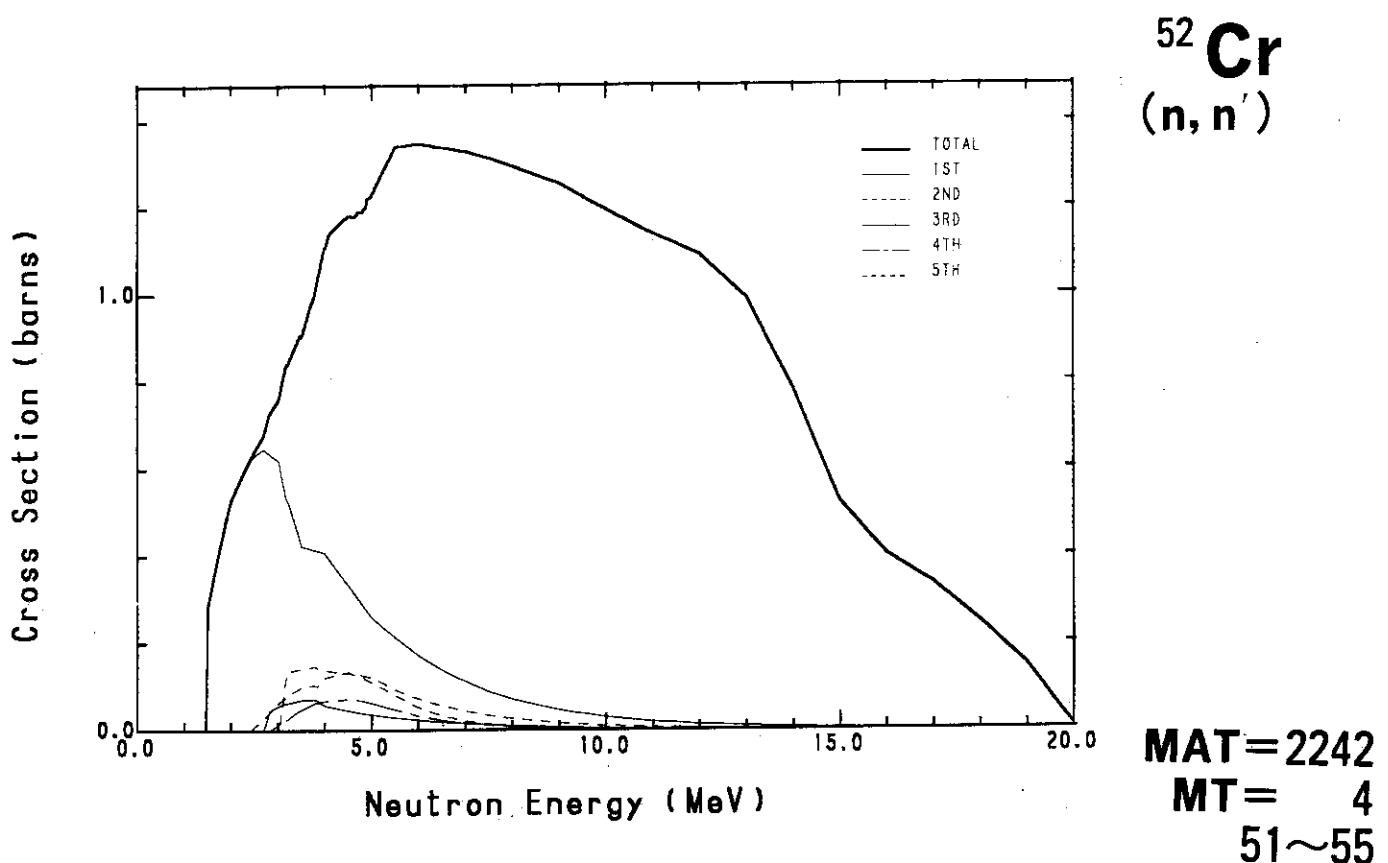
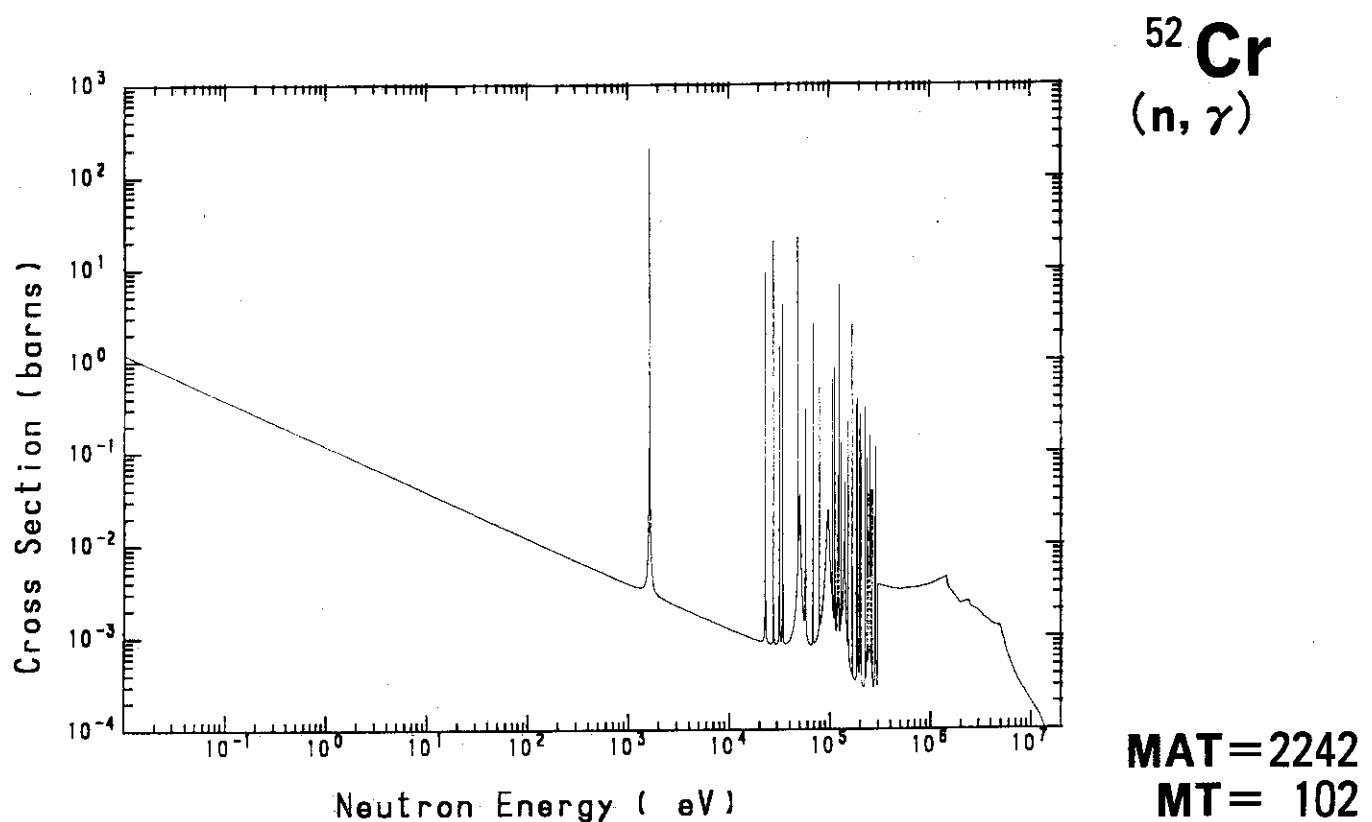
MAT=2242
MT = 1



^{52}Cr
(n, n)

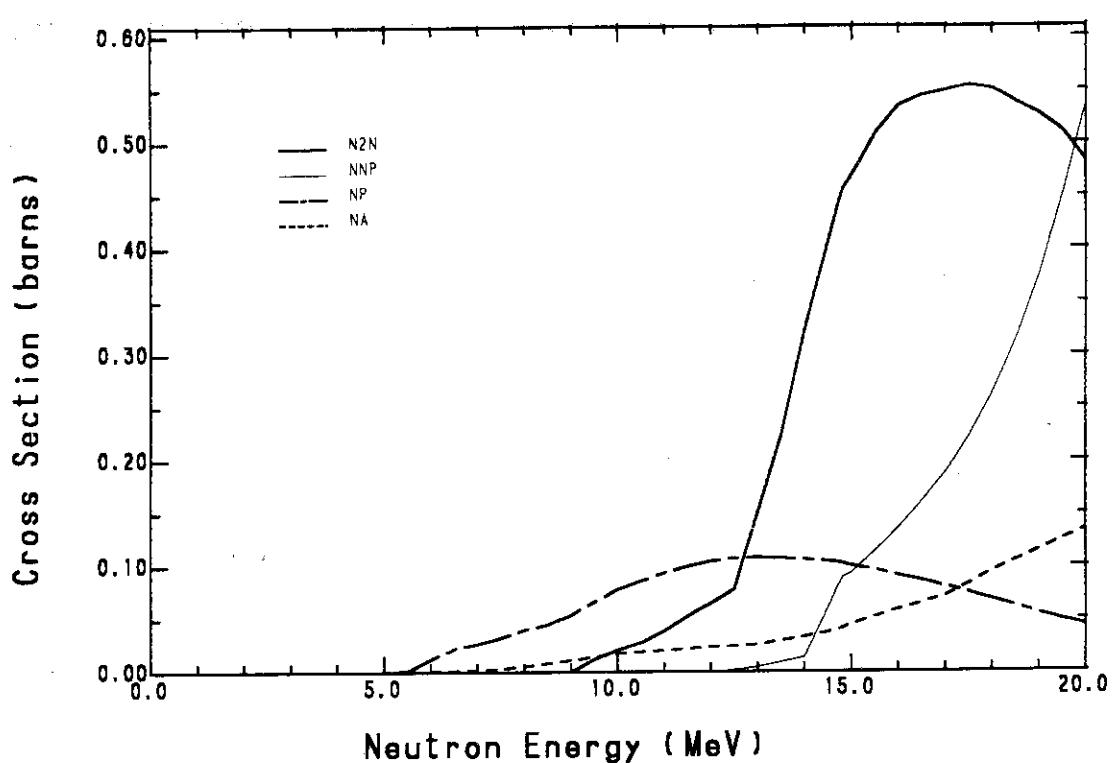
MAT=2242
MT = 2





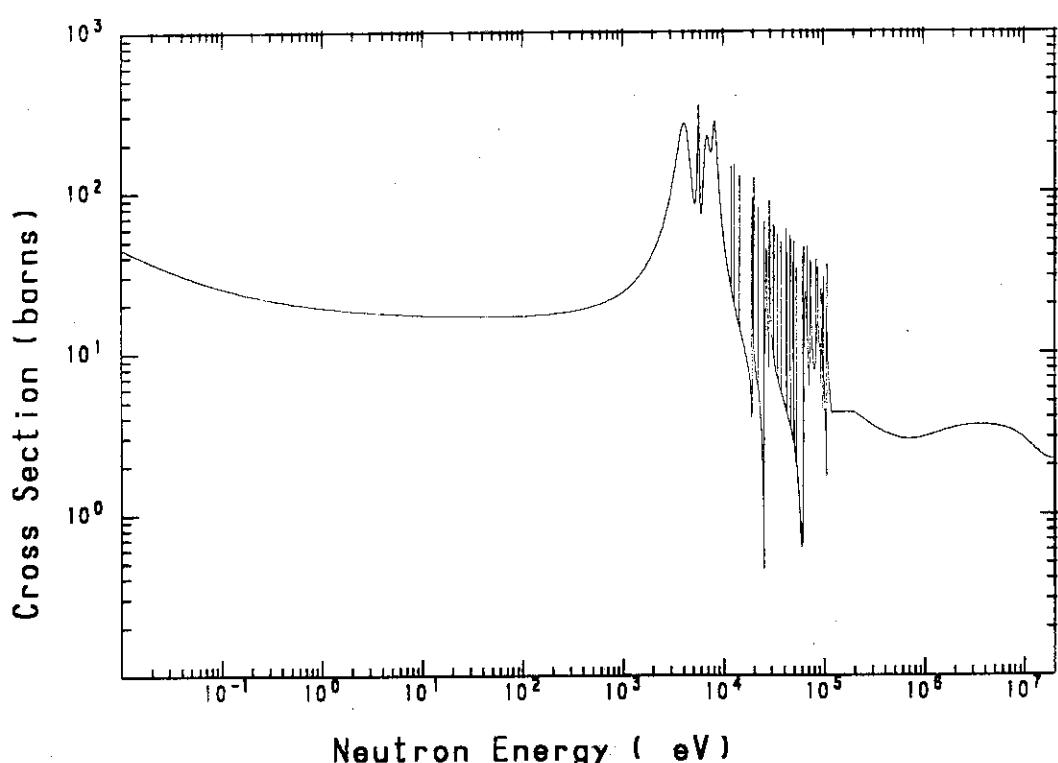
^{52}Cr
 $(n, 2n)$
 $(n, n'p)$
 (n, p)
 (n, α)

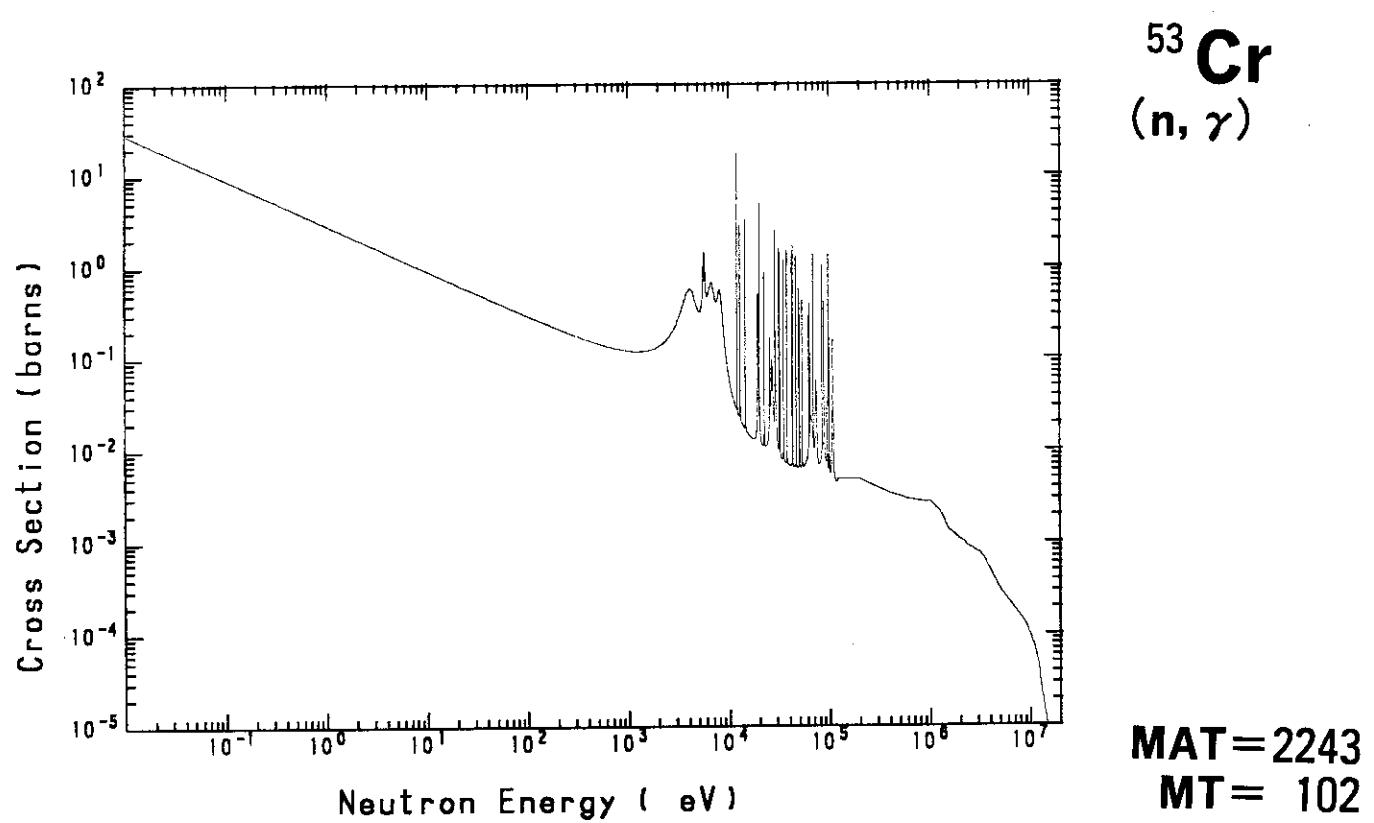
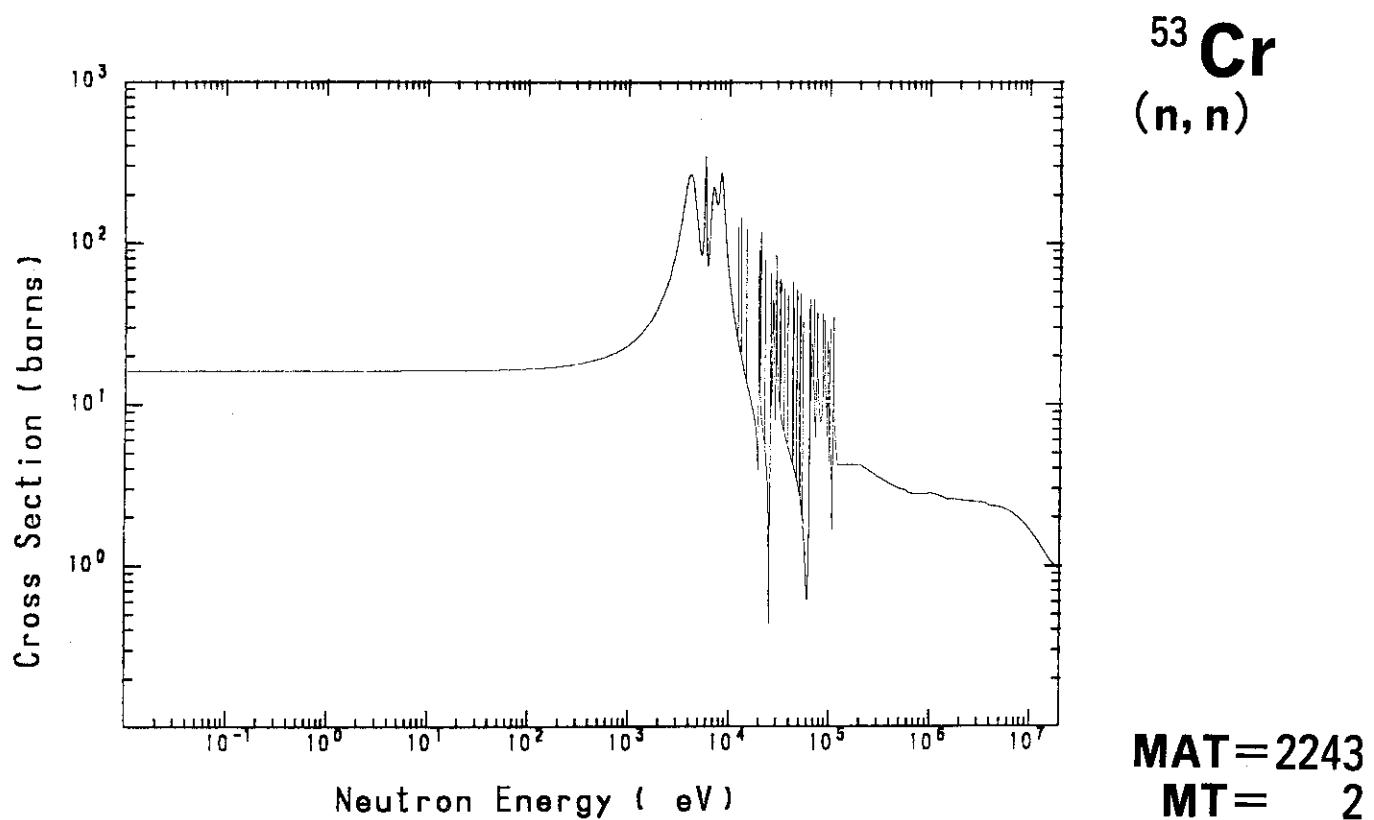
MAT=2242
MT= 16
28
103
107



^{53}Cr
TOTAL

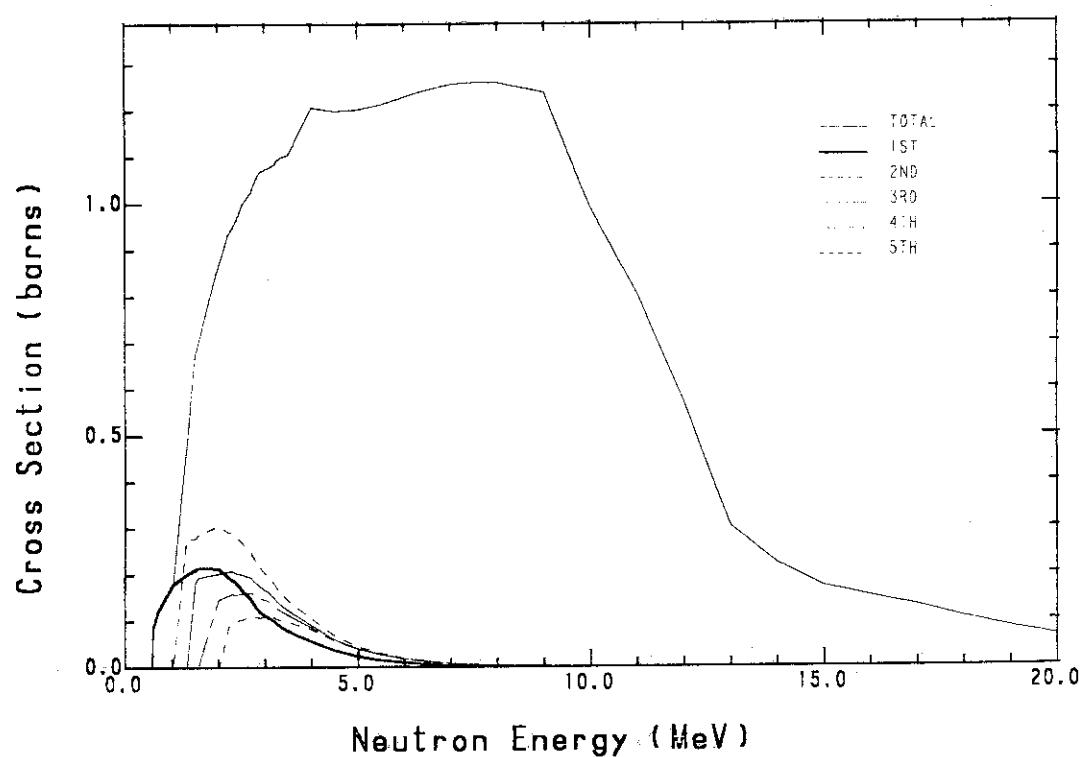
MAT=2243
MT= 1





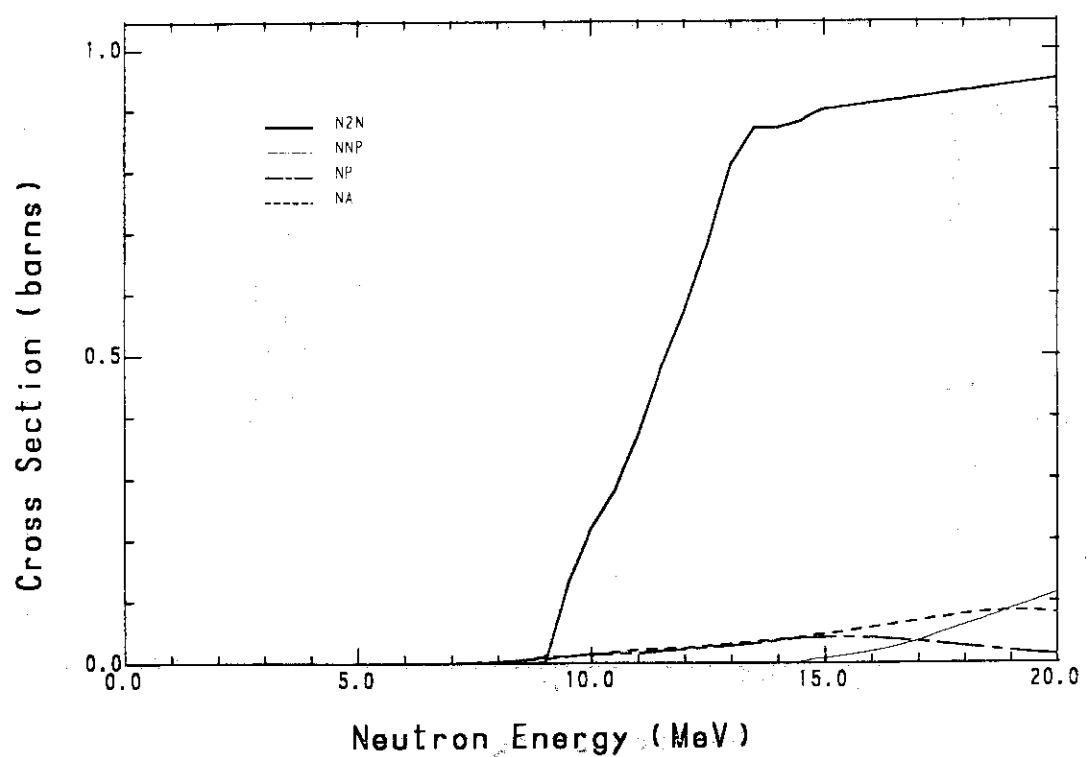
^{53}Cr
 (n, n')

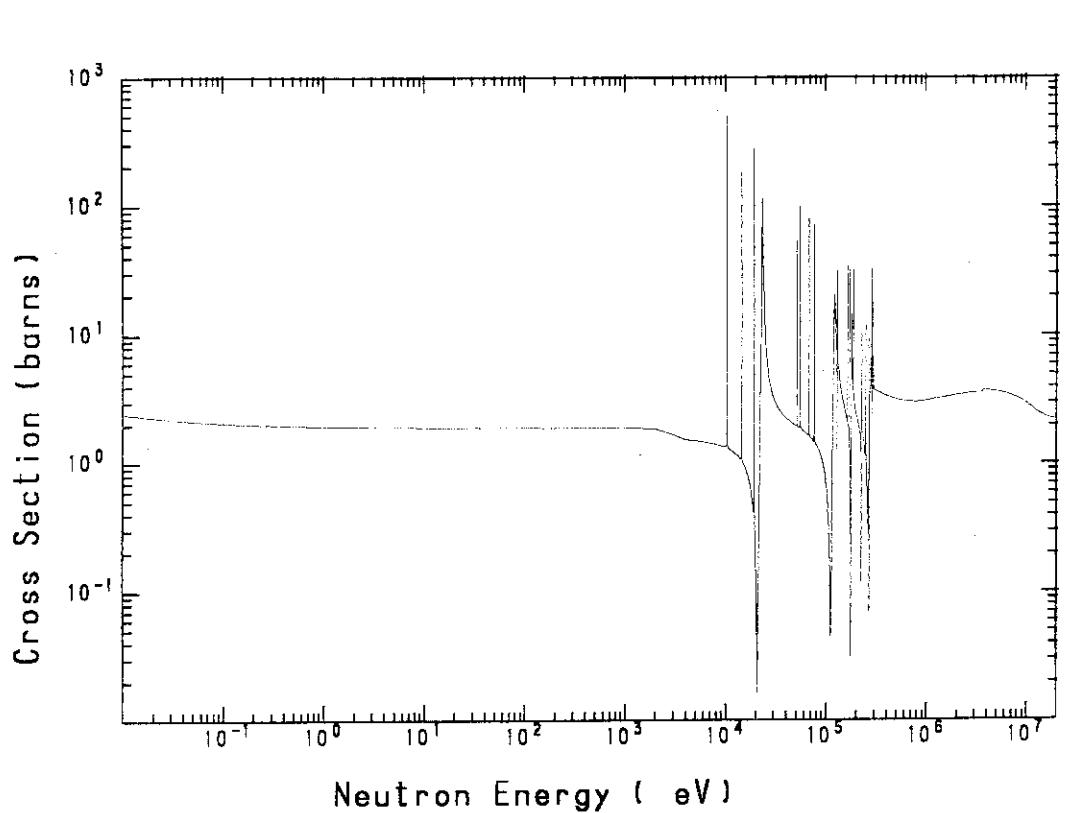
MAT=2243
MT= 4
51~55



^{53}Cr
 $(n, 2n)$
 $(n, n'p)$
 (n, p)
 (n, α)

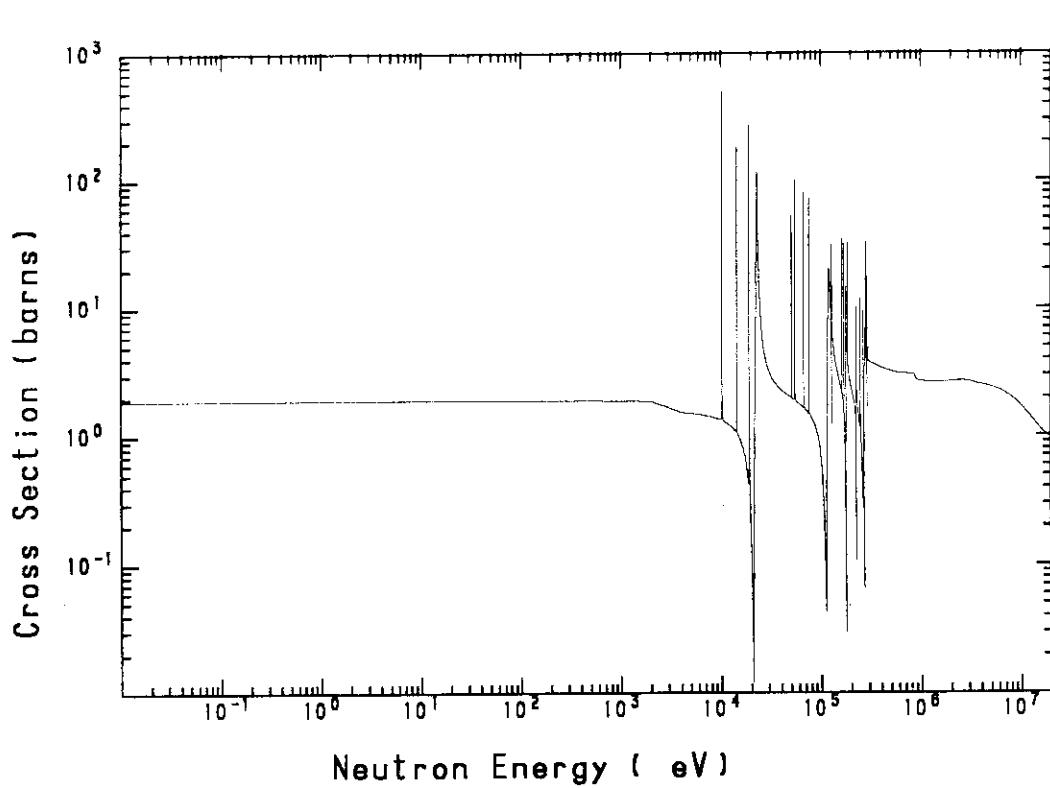
MAT=2243
MT= 16
28
103
107





**54 Cr
TOTAL**

**MAT=2244
MT= 1**

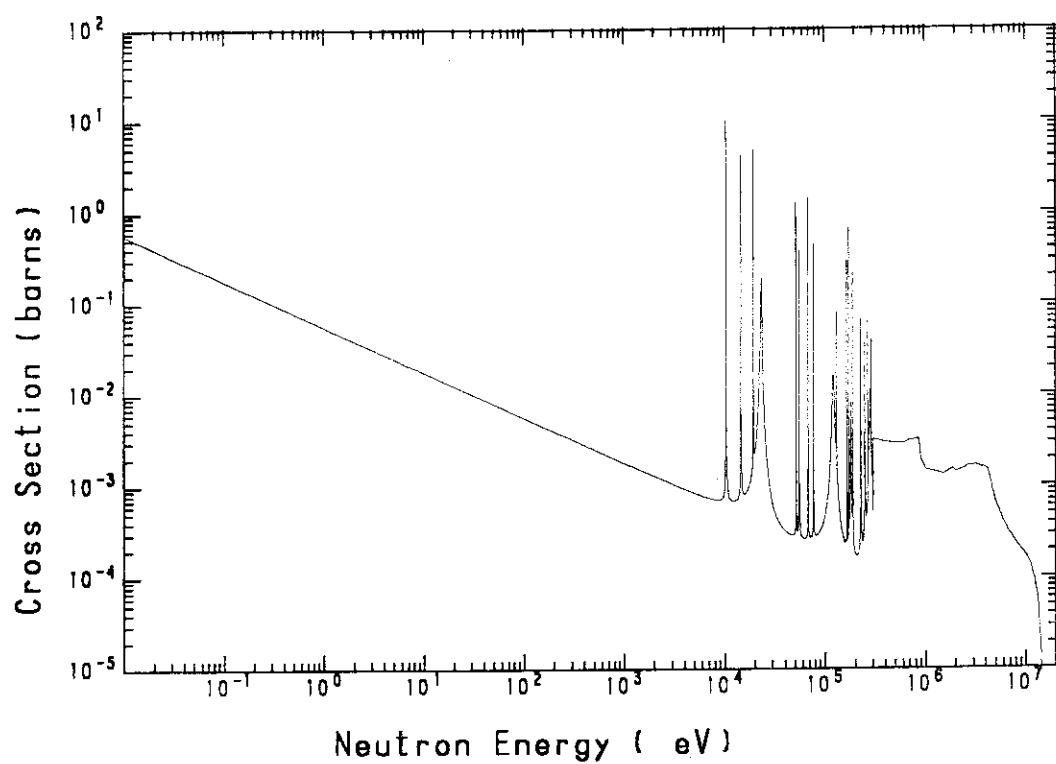


**54 Cr
(n,n)**

**MAT=2244
MT= 2**

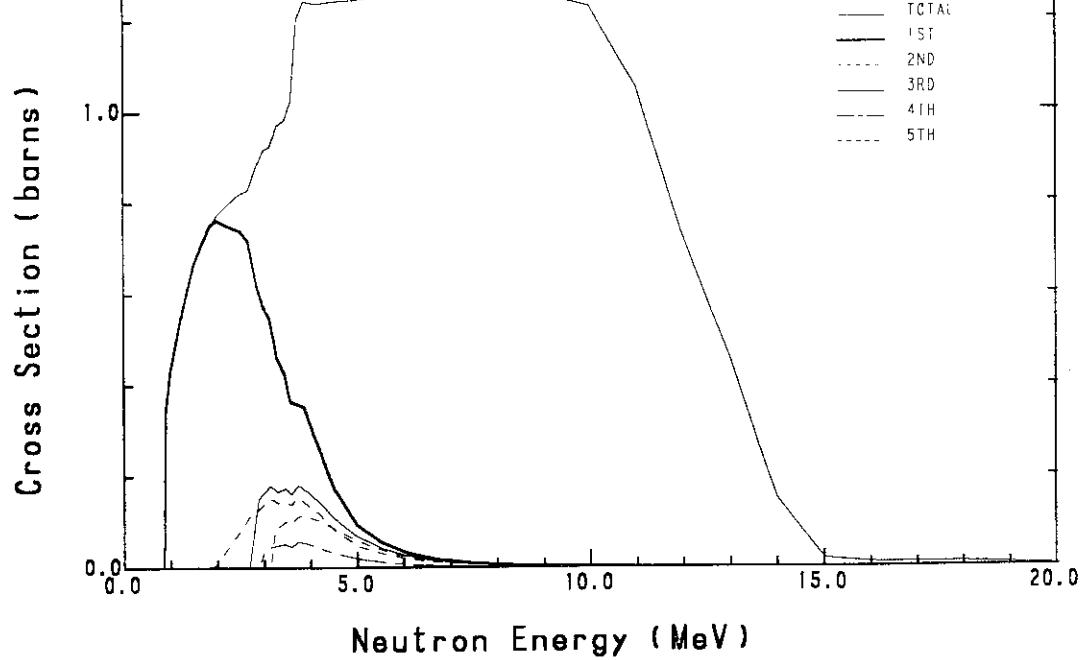
^{54}Cr
(n, γ)

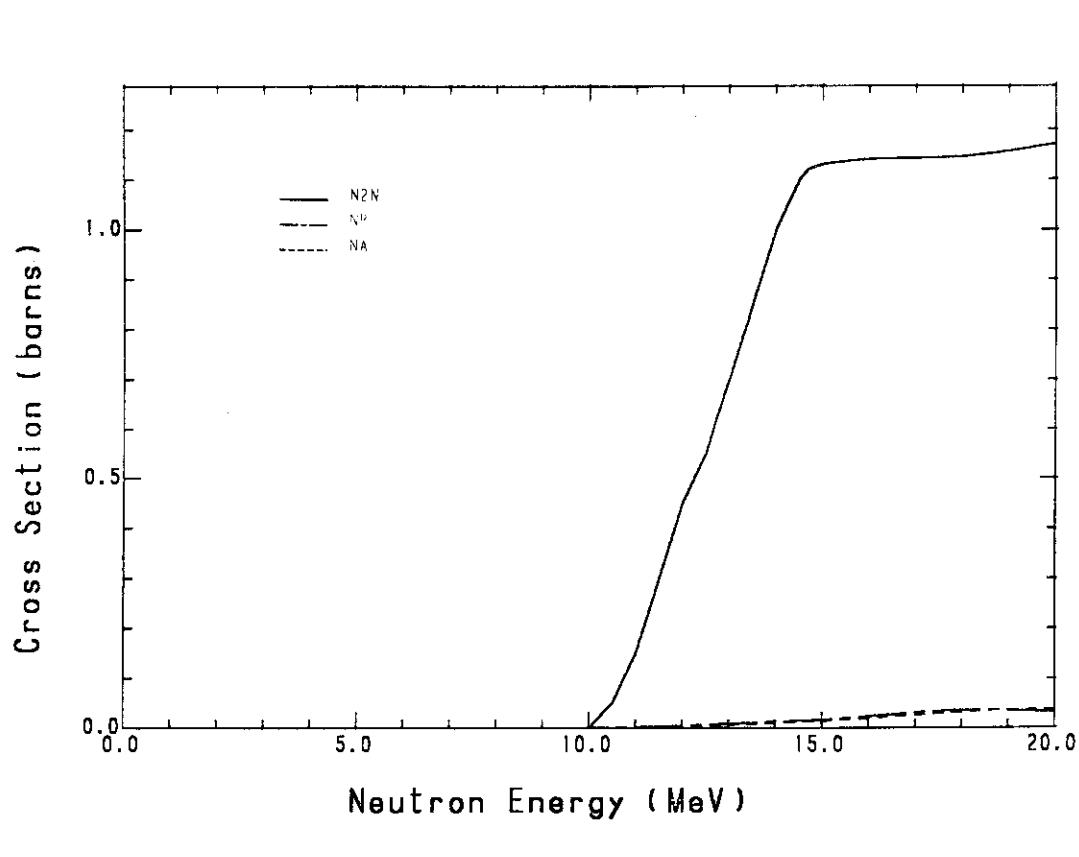
MAT=2244
MT= 102



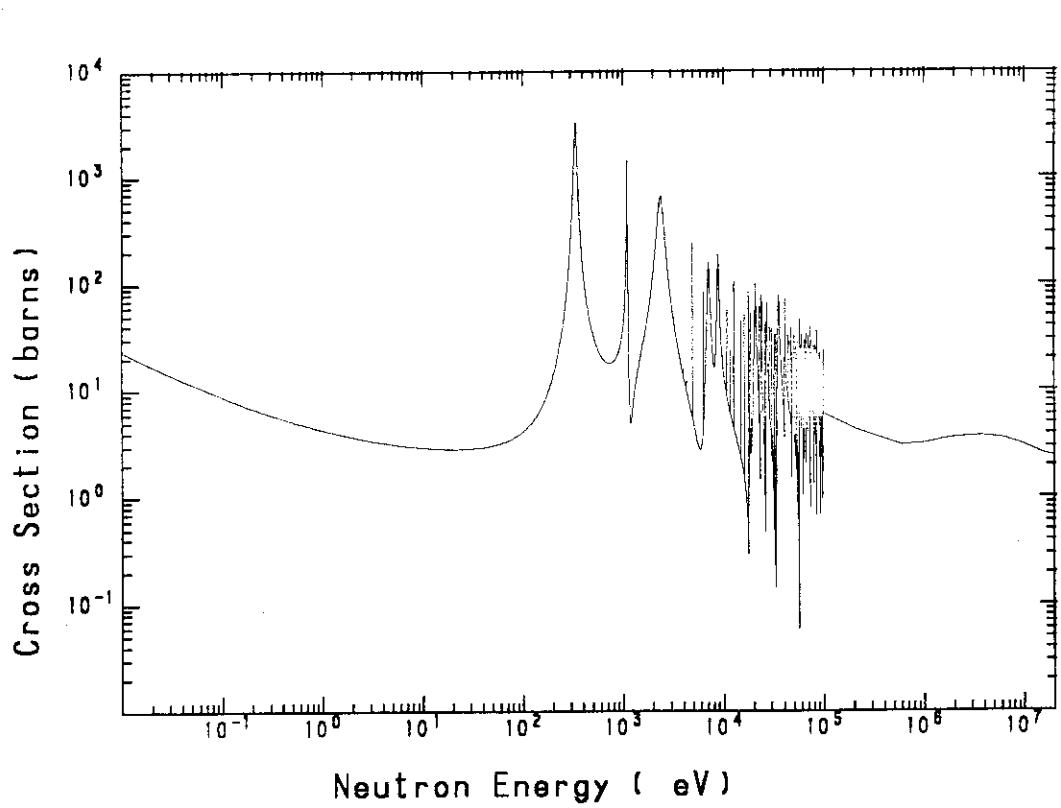
^{54}Cr
(n, n')

MAT=2244
MT= 4
51~55





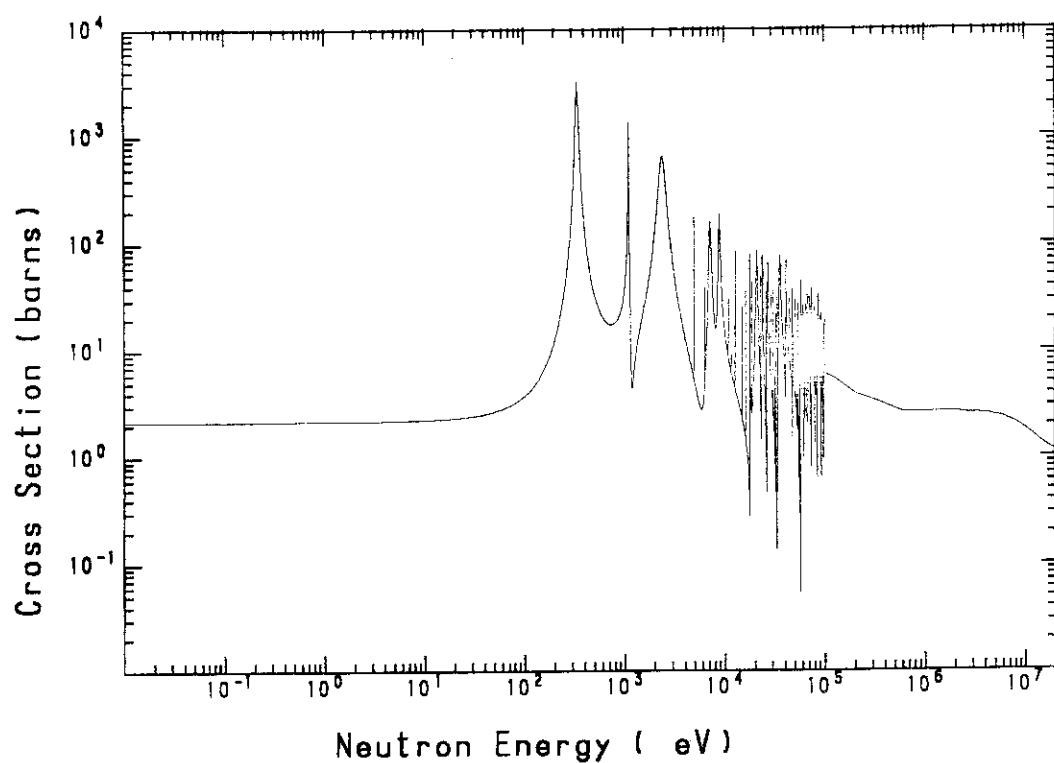
MAT=2244
 MT= 16
 103
 107



MAT=2551
 MT= 1

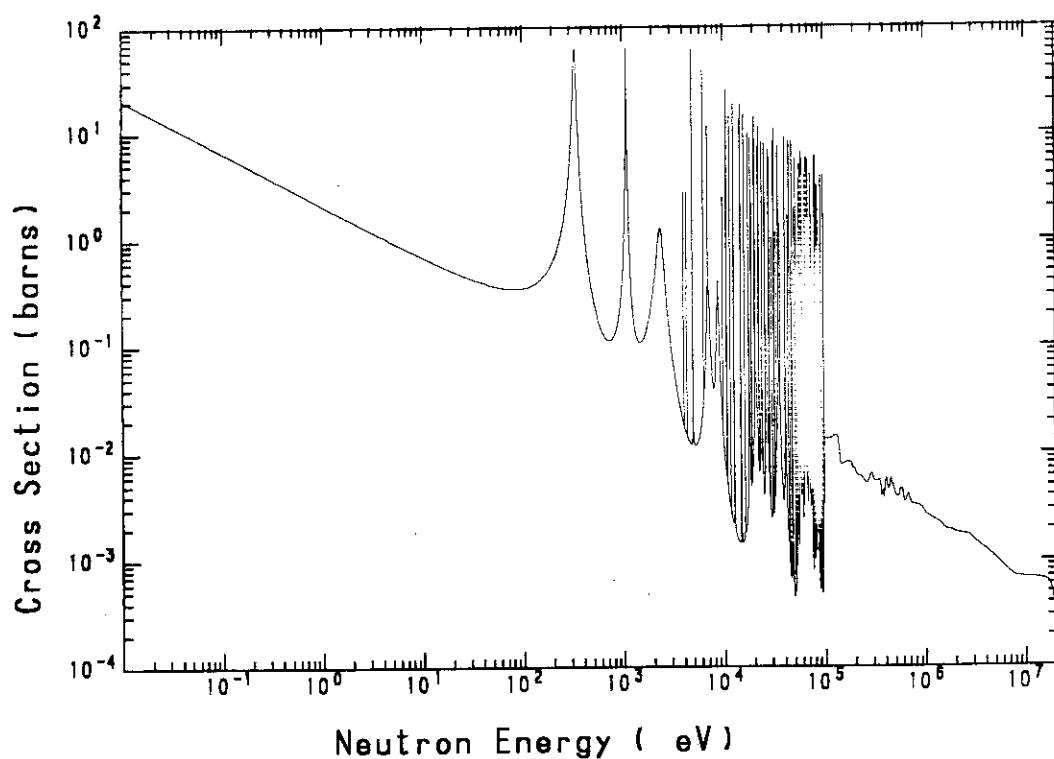
55 Mn
(n, n)

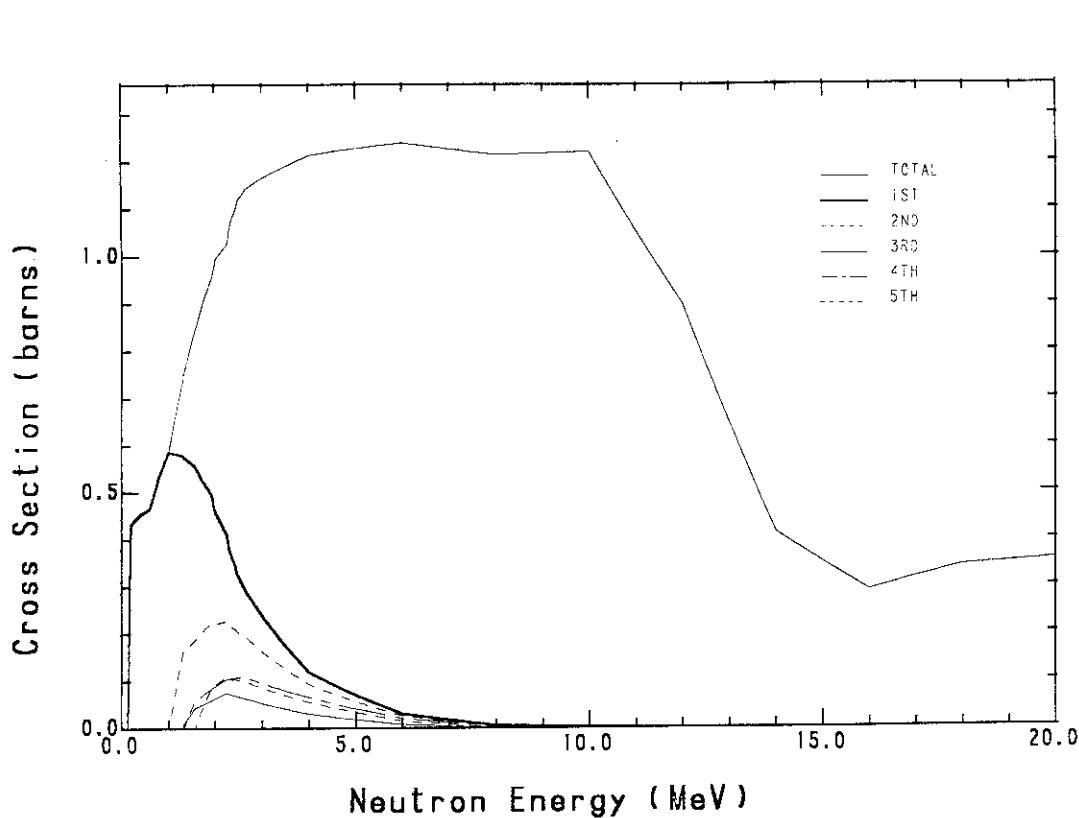
MAT=2251
MT = 2



55 Mn
(n, γ)

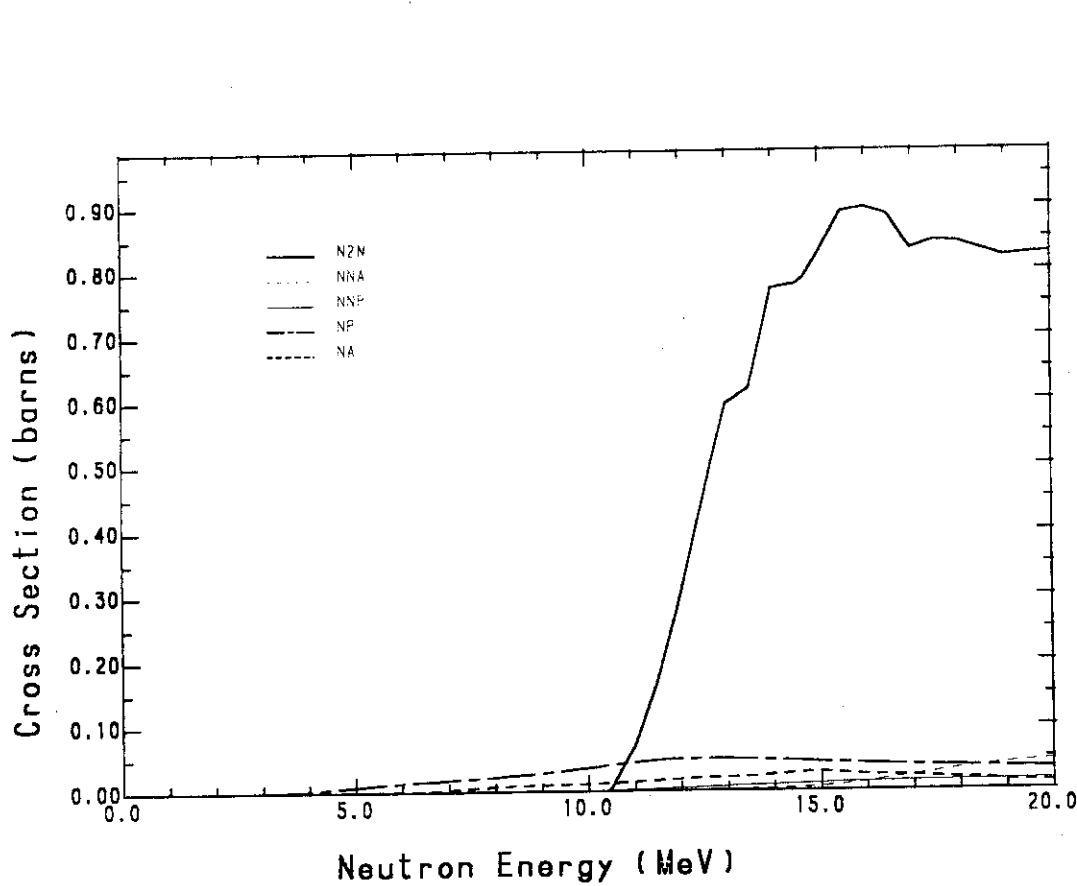
MAT=2251
MT = 102





^{55}Mn
(n, n')

MAT=2251
MT= 4
51~55

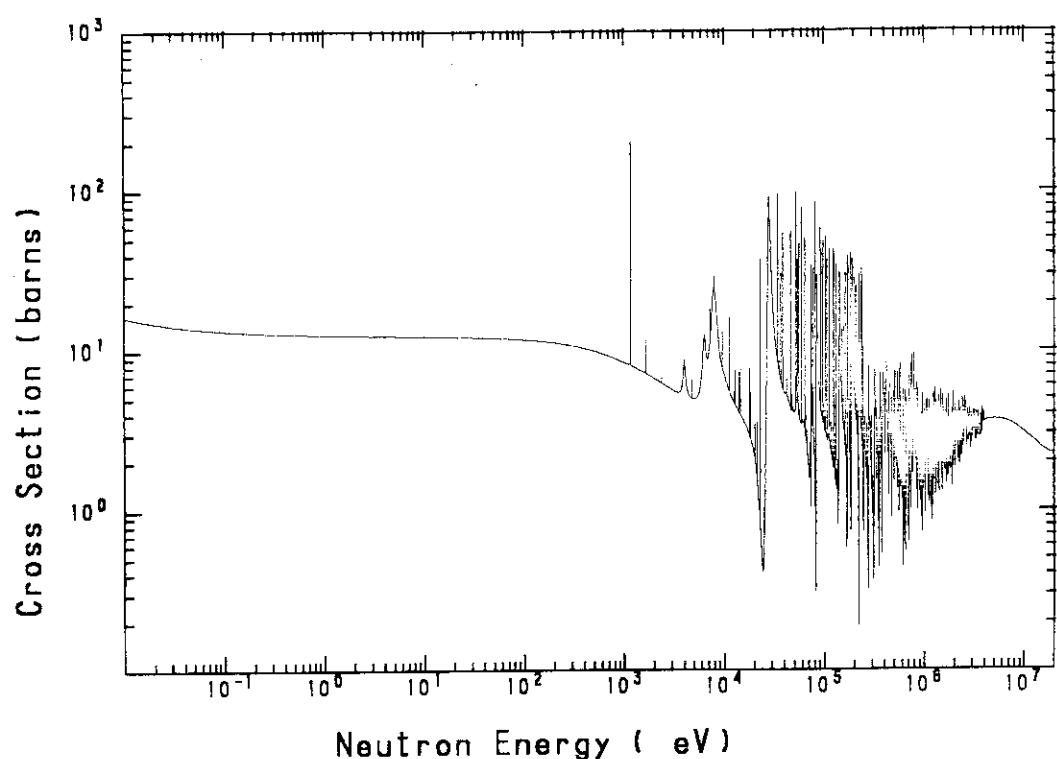


^{55}Mn
($n, 2n$)
($n, n' \alpha$)
($n, n' p$)
(n, p)
(n, α)

MAT=2251
MT= 16
22
28
103
107

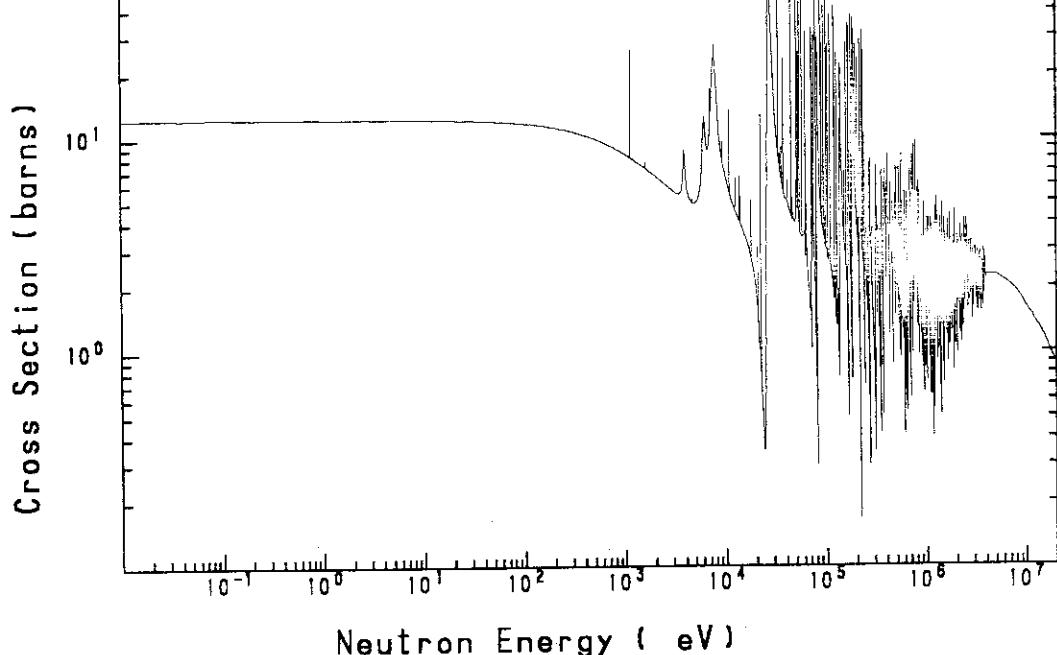
^{26}Fe
TOTAL

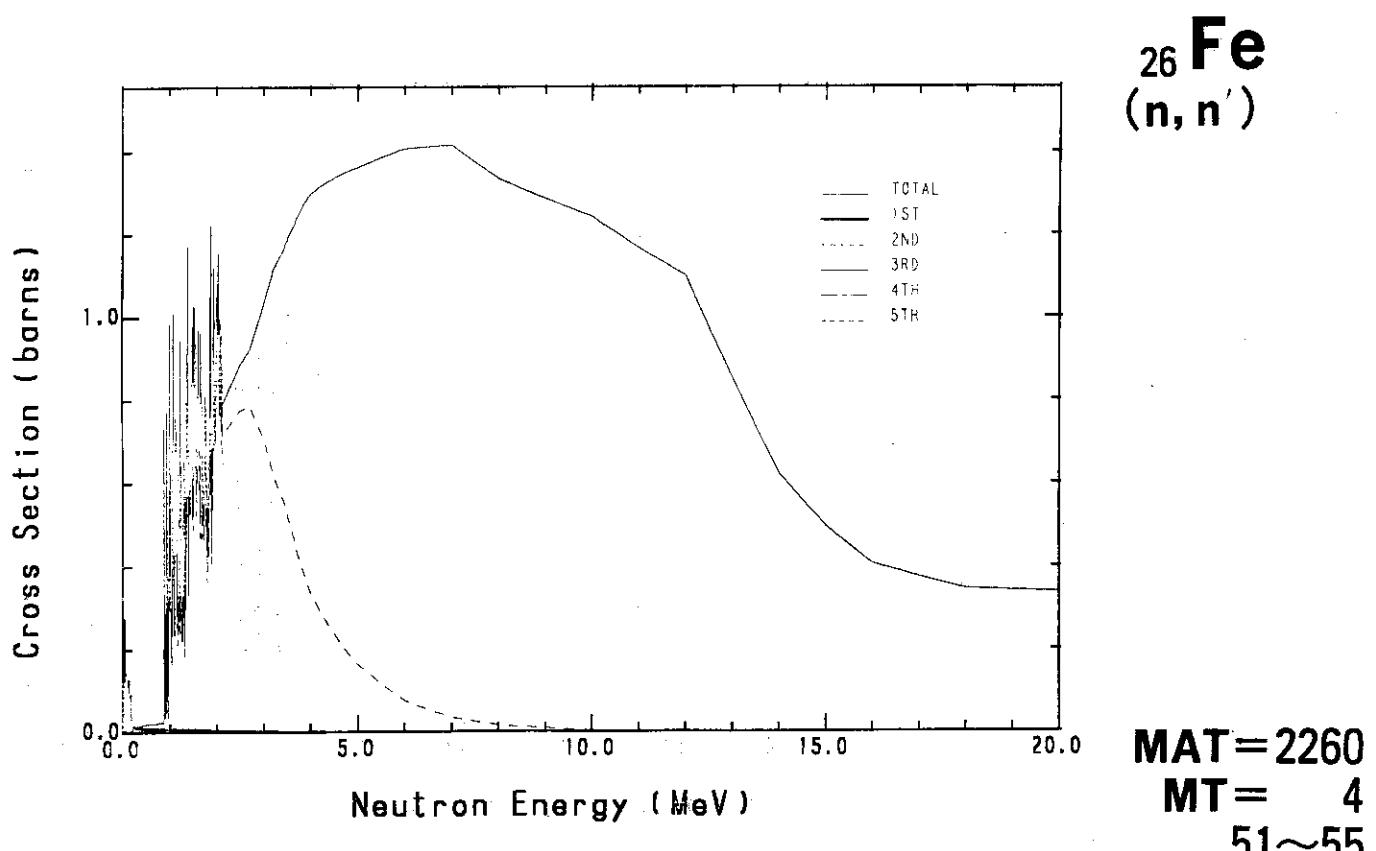
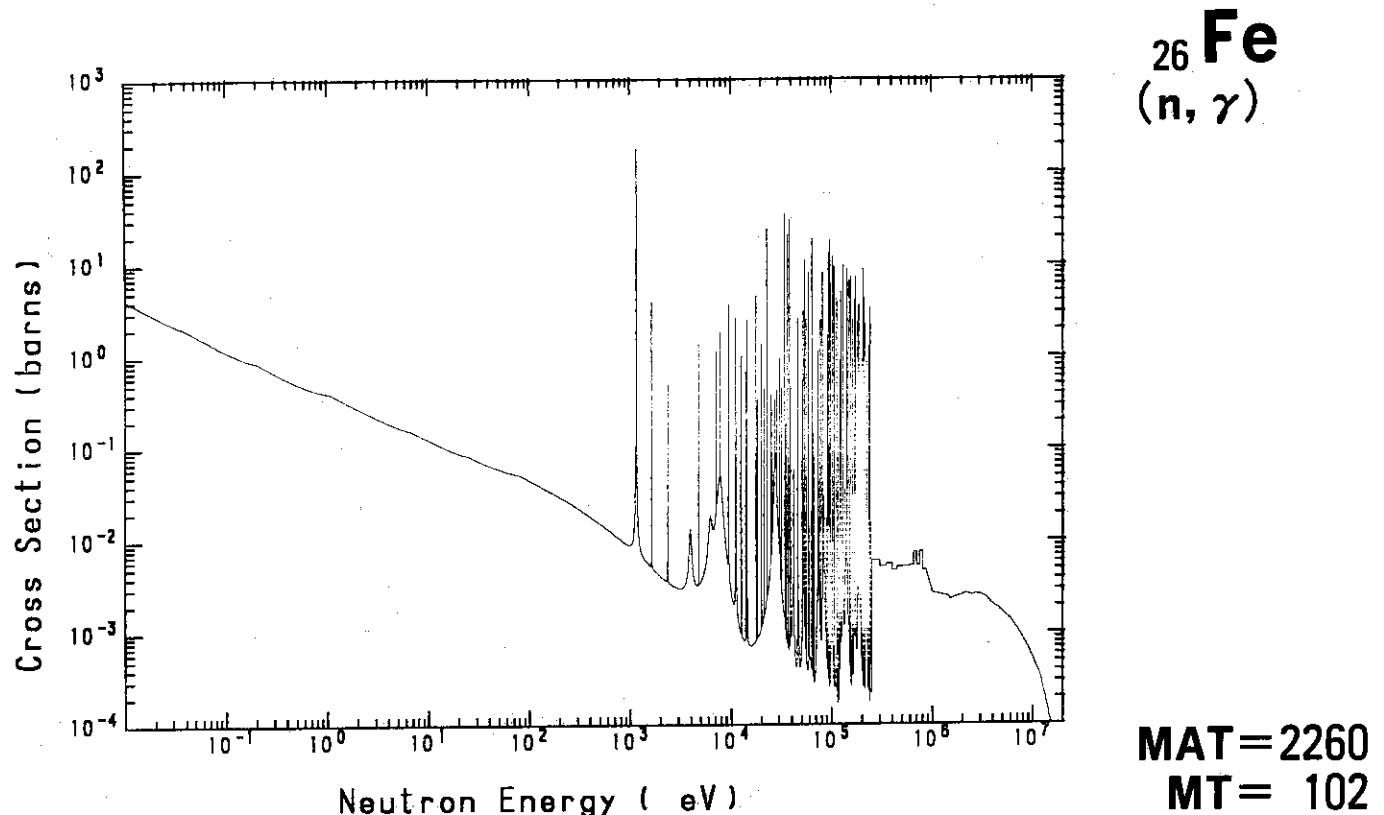
MAT=2260
MT= 1



^{26}Fe
(n, n)

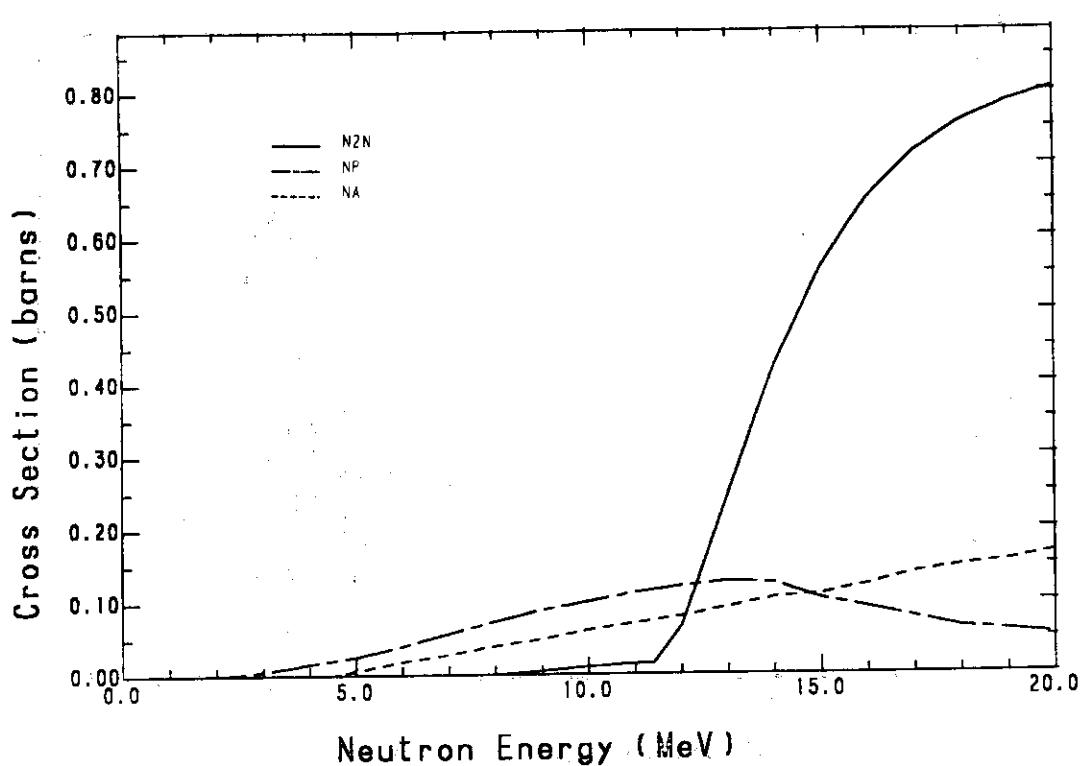
MAT=2260
MT= 2





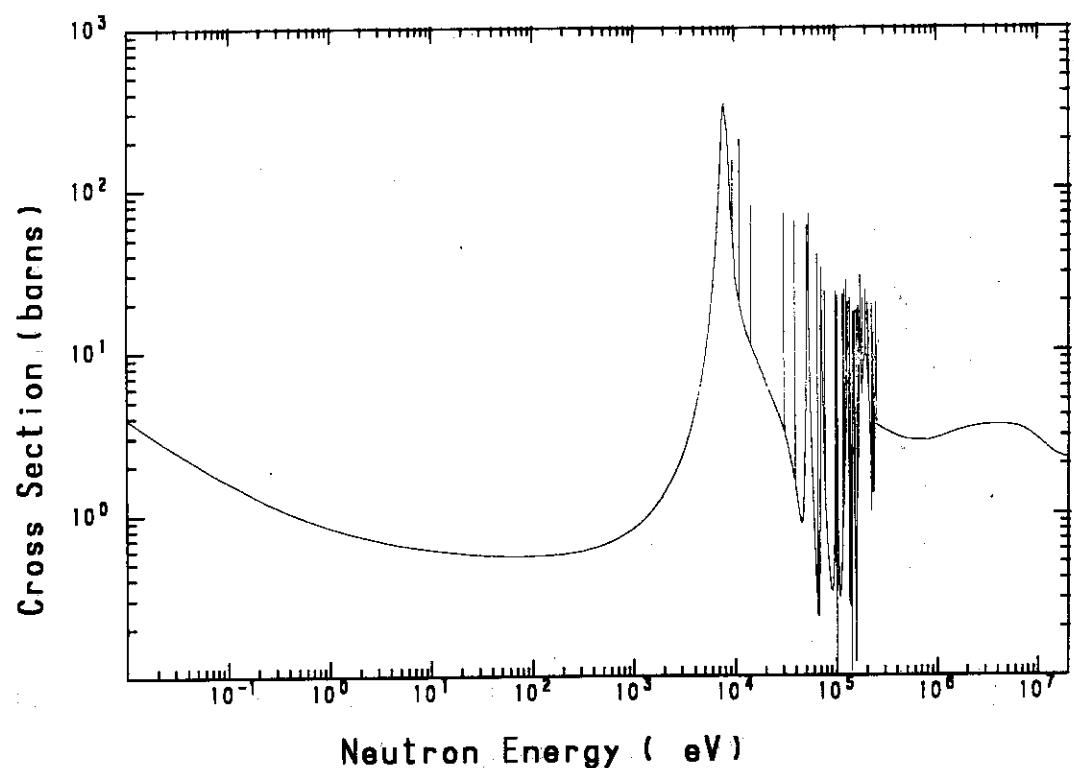
^{26}Fe
 $(n, 2n)$
 (n, p)
 (n, α)

MAT=2260
MT= 16
103
107

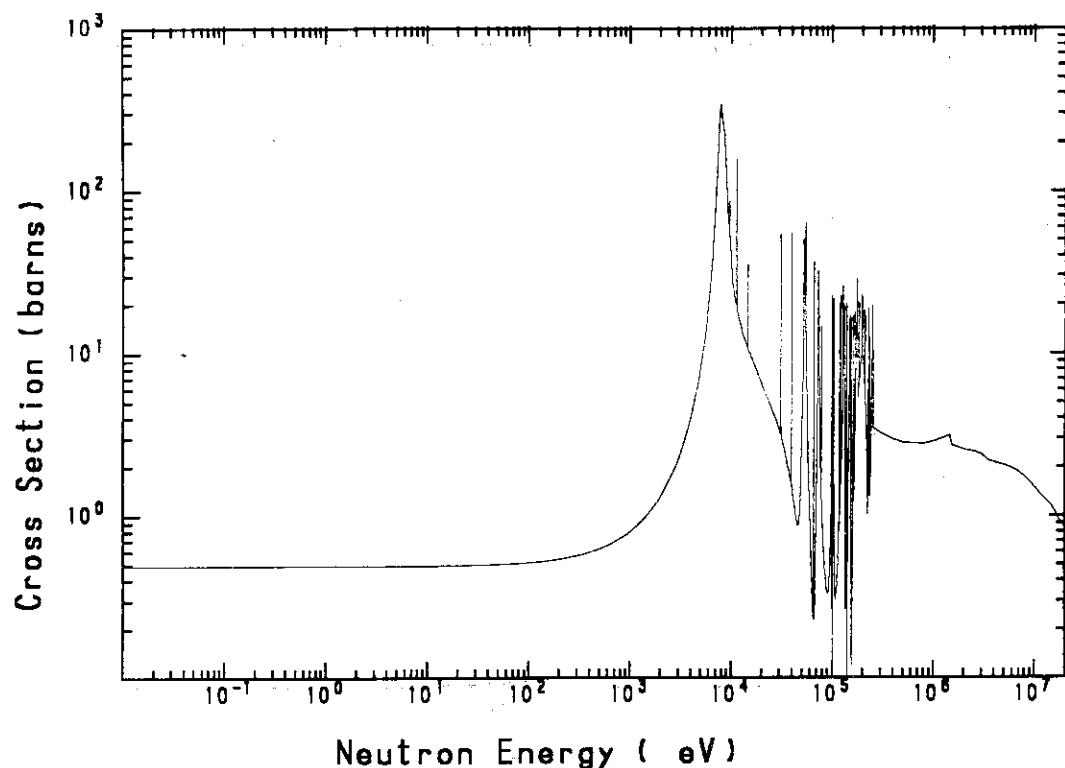


^{54}Fe
TOTAL

MAT=2261
MT= 1

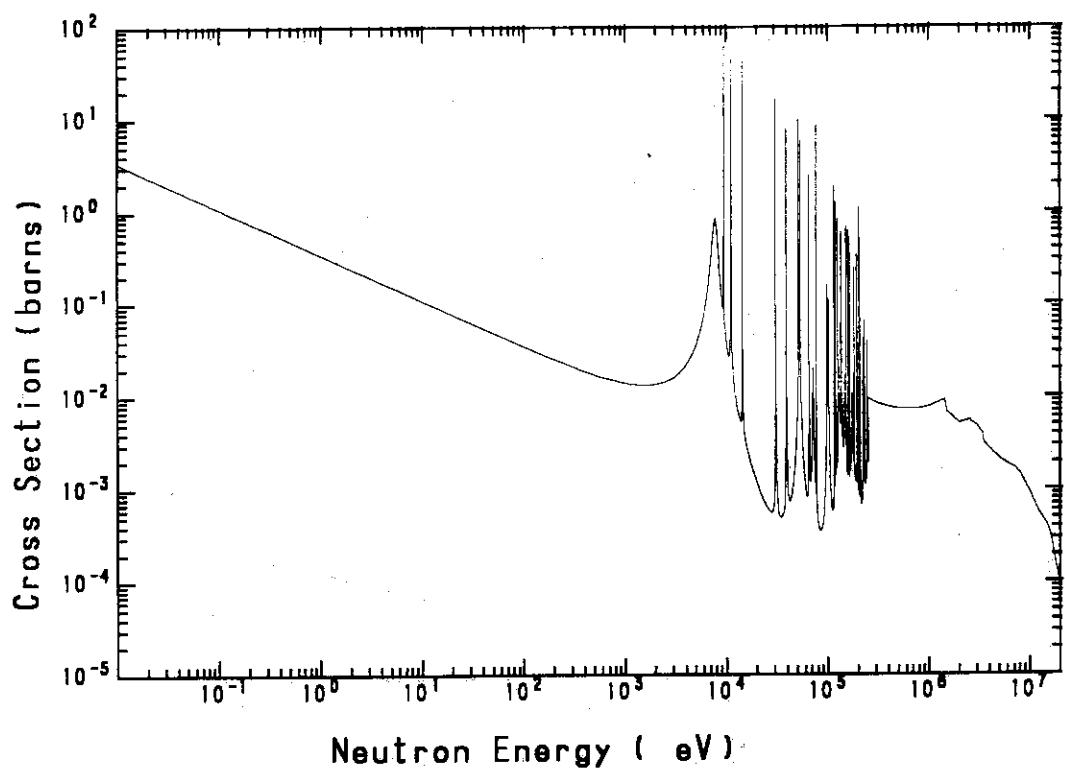


^{54}Fe
 (n, n)



MAT=2261
MT = 2

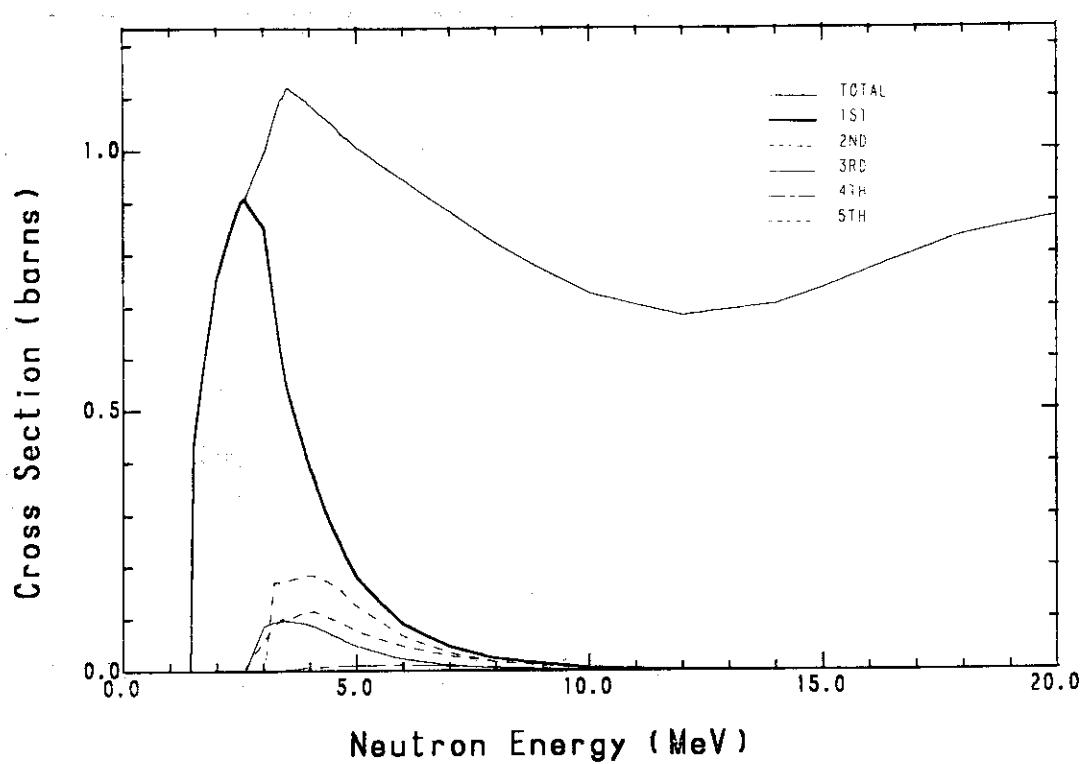
^{54}Fe
 (n, γ)



MAT=2261
MT = 102

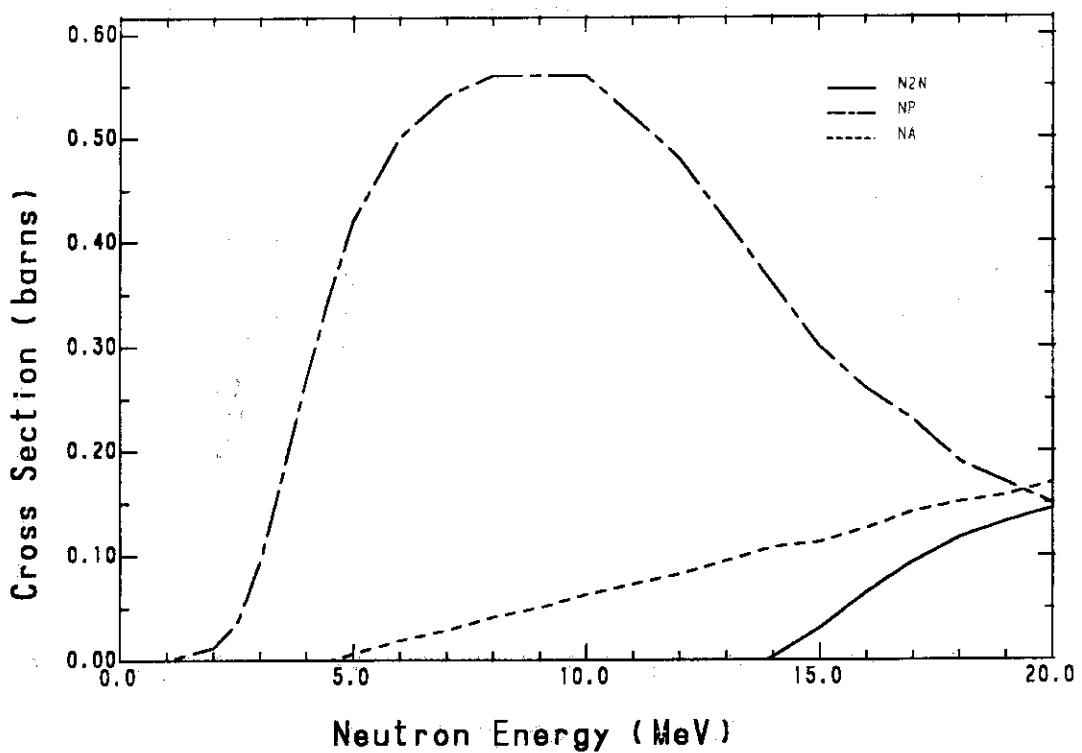
^{54}Fe
 (n, n')

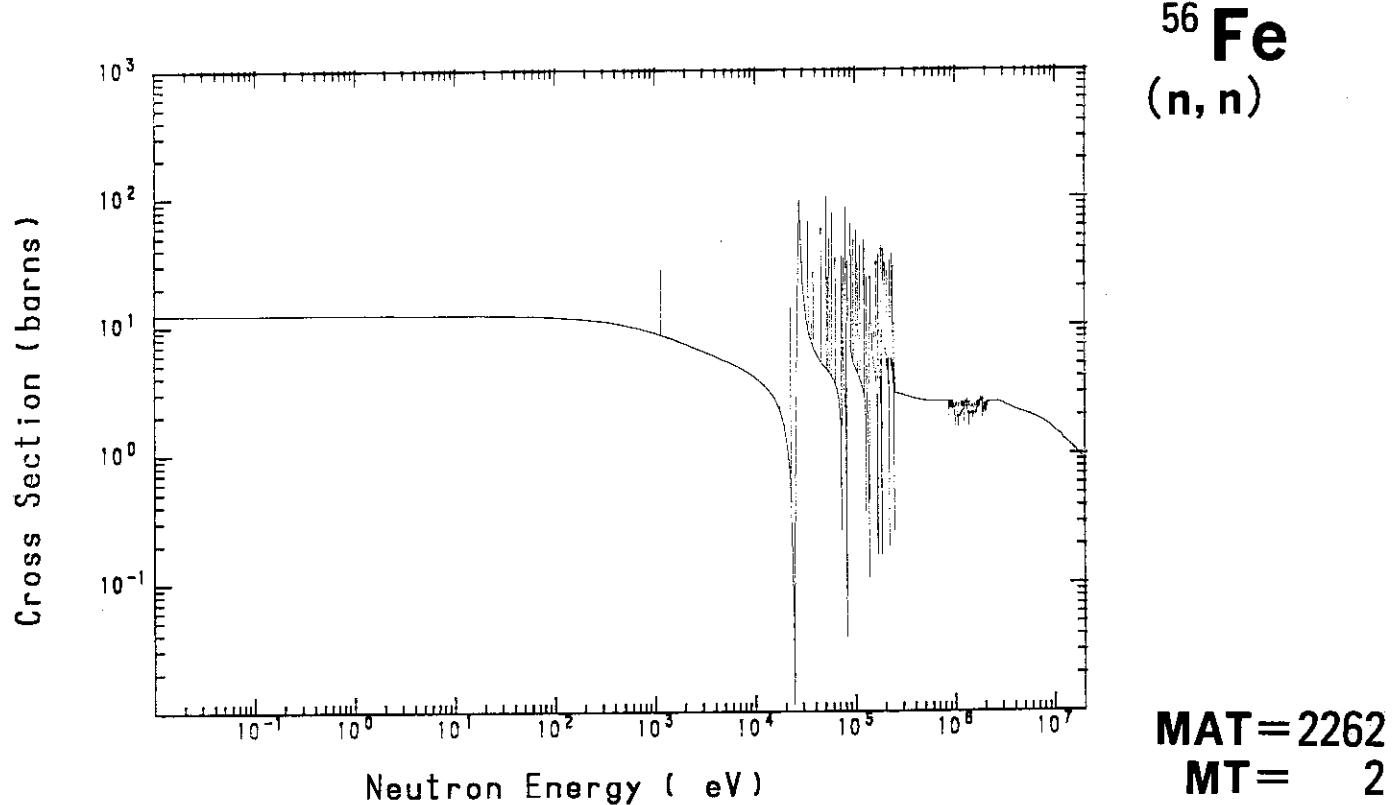
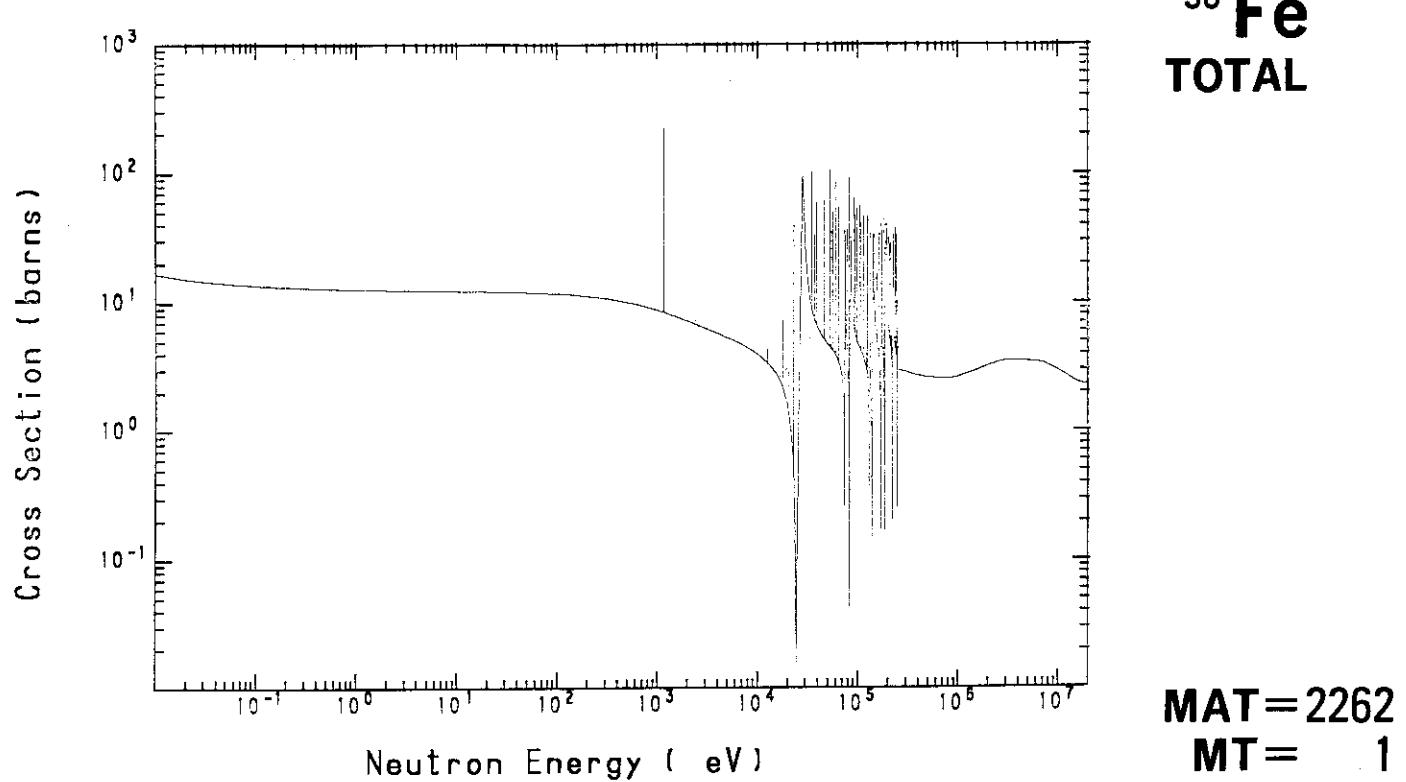
MAT=2261
MT= 4
51~55



^{54}Fe
 $(n, 2n)$
 (n, p)
 (n, α)

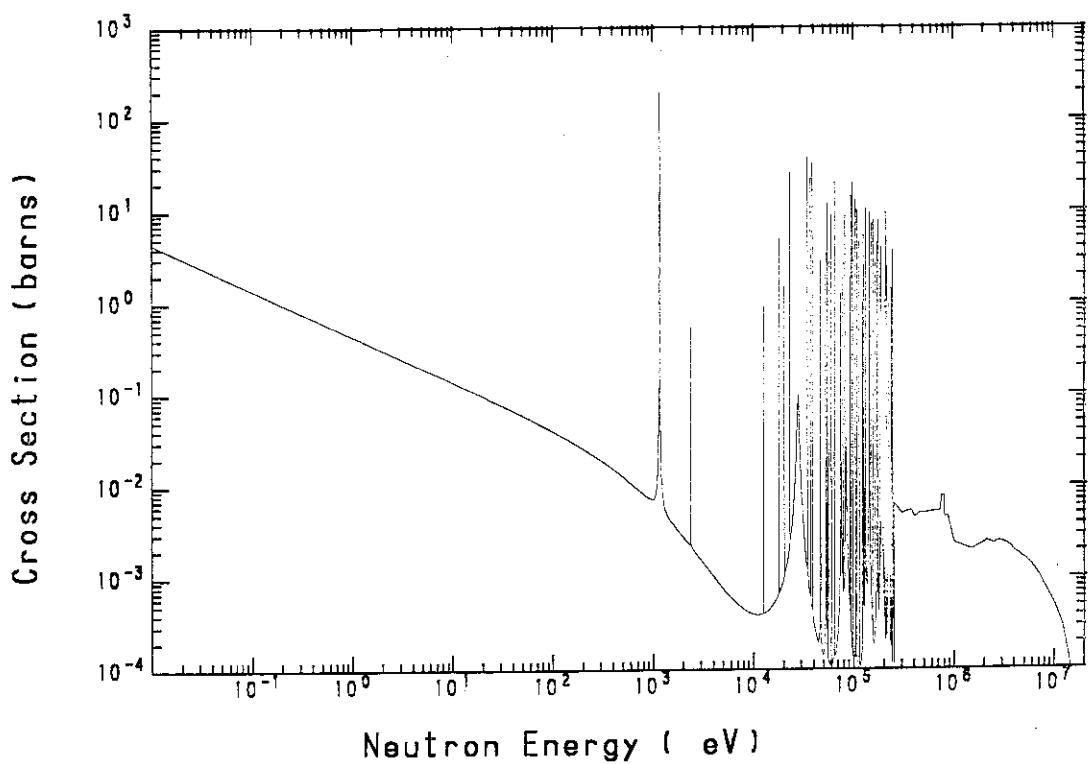
MAT=2261
MT= 16
103
107





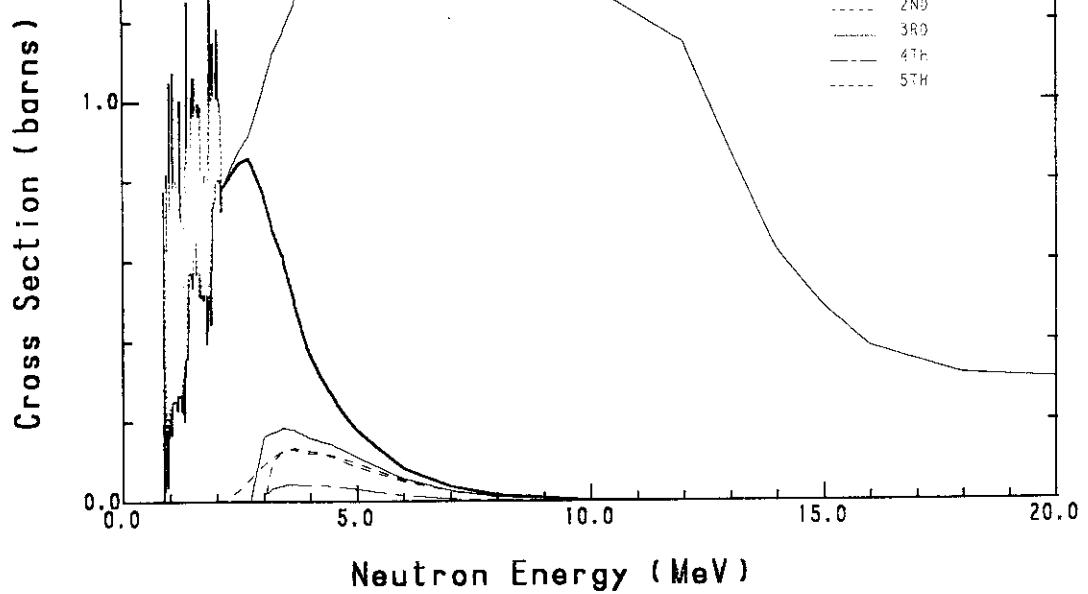
^{56}Fe
(n, γ)

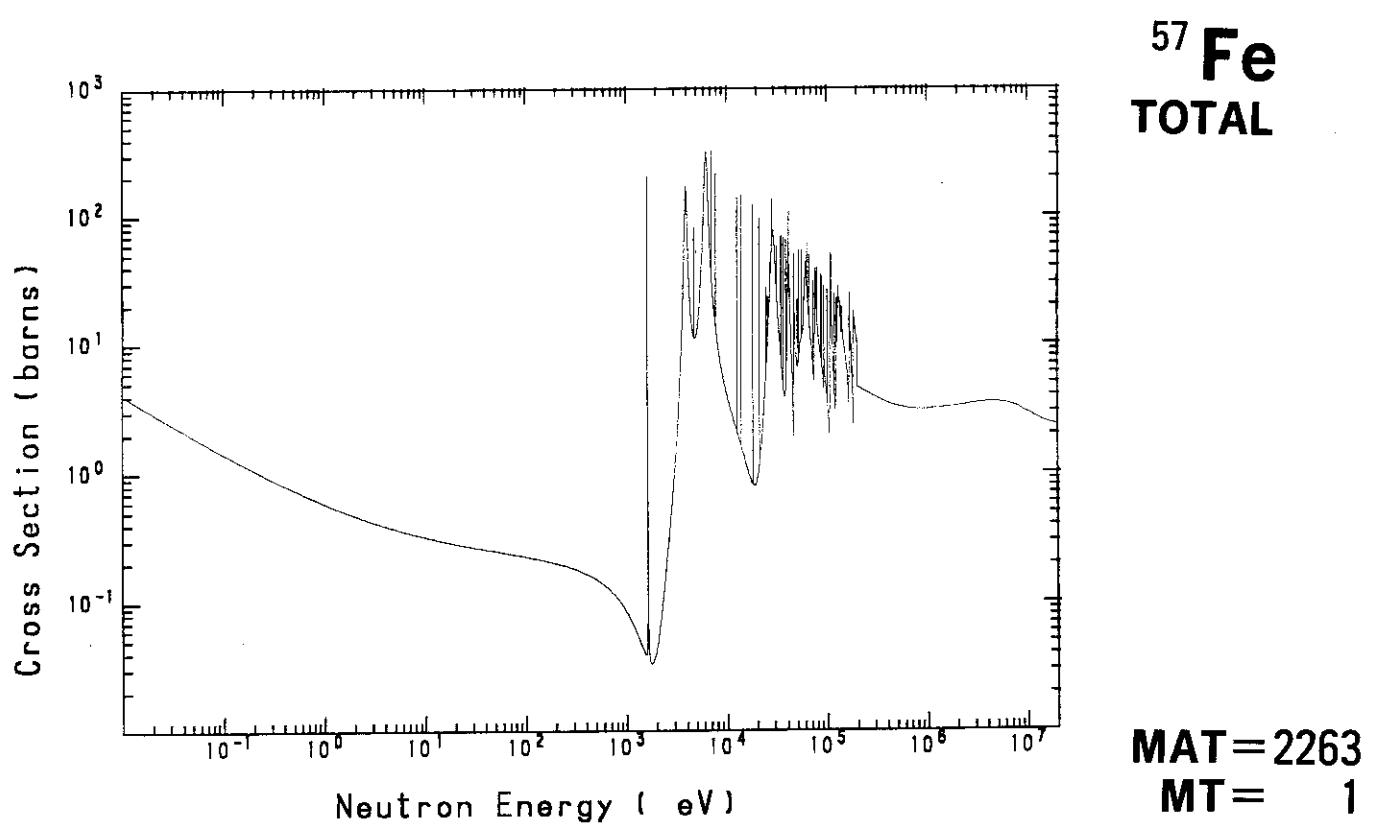
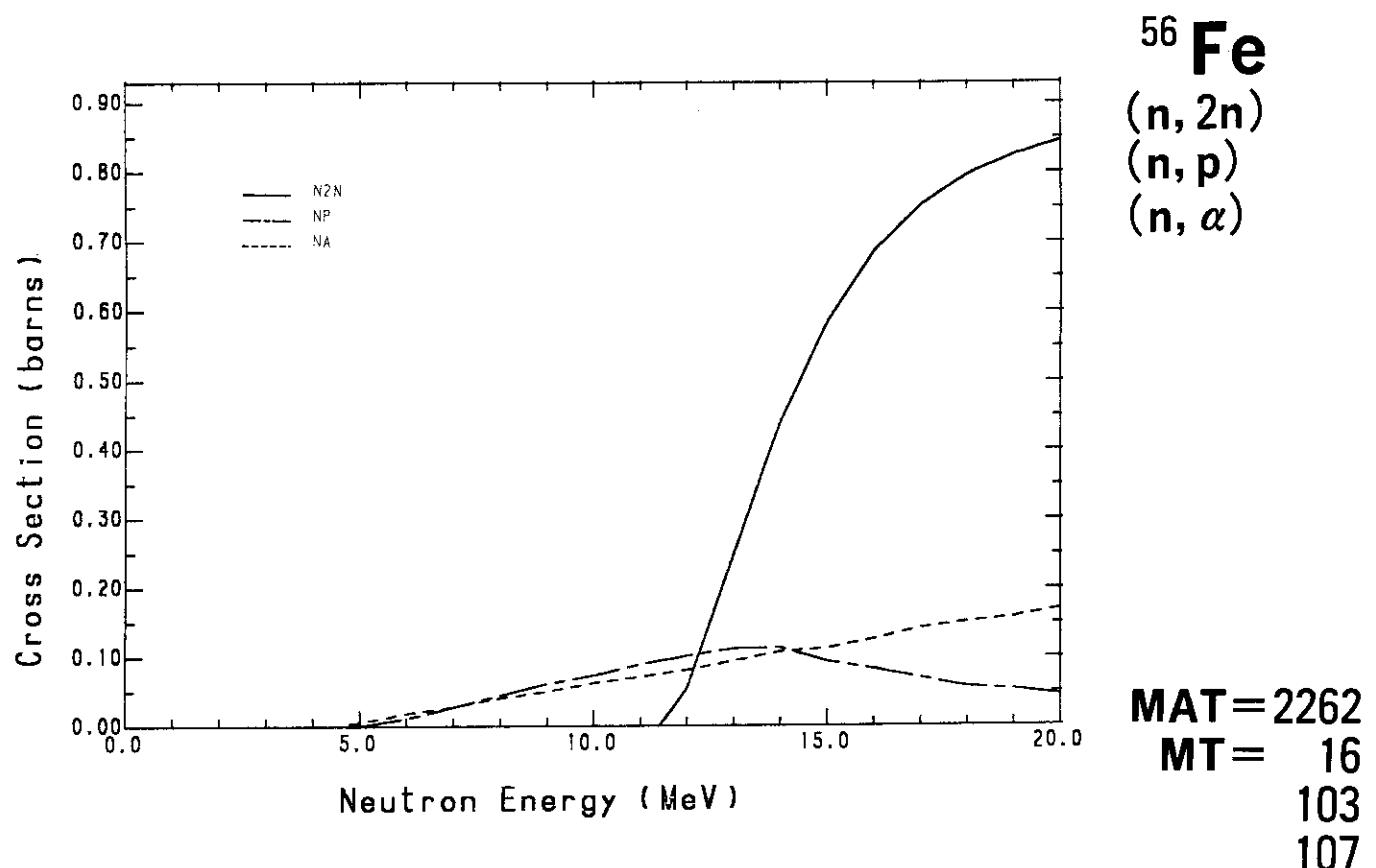
MAT=2262
MT= 102



^{56}Fe
(n, n')

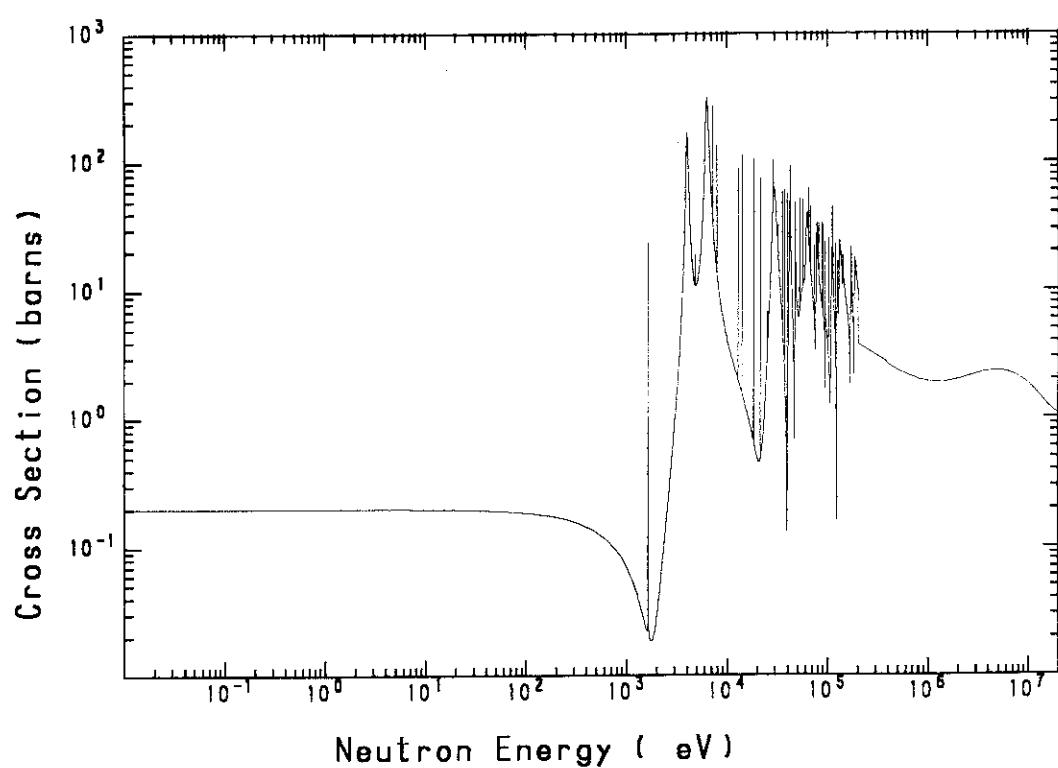
MAT=2262
MT= 4
51~55





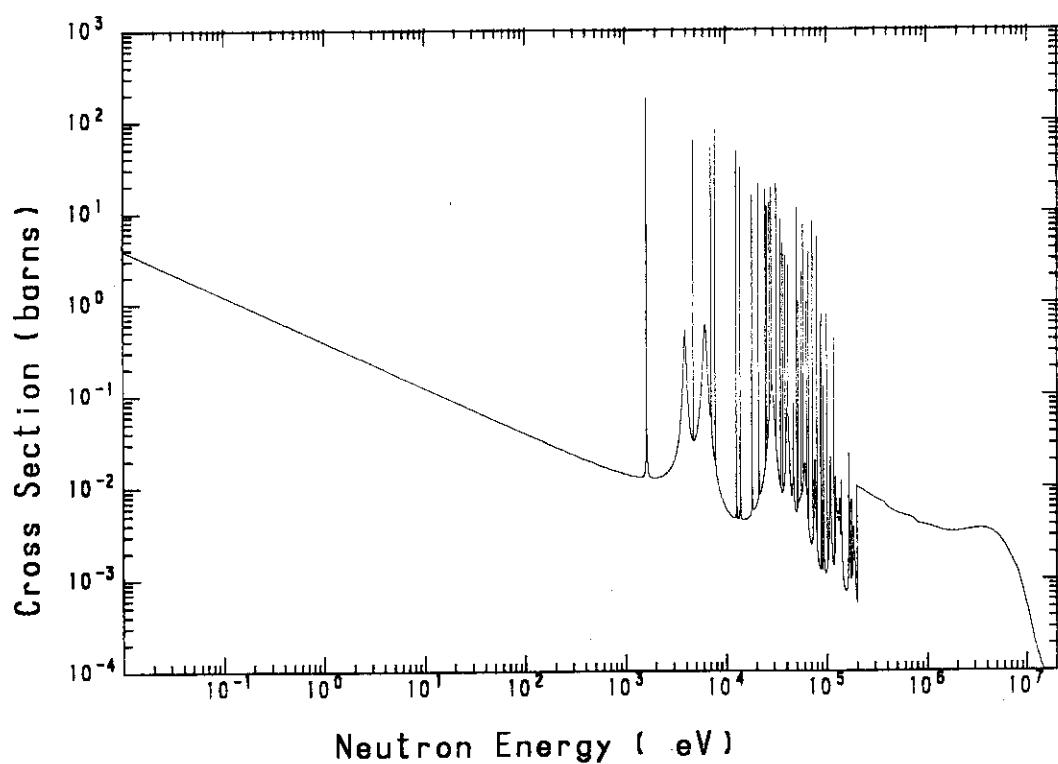
^{57}Fe
(n, n)

MAT=2263
MT= 2

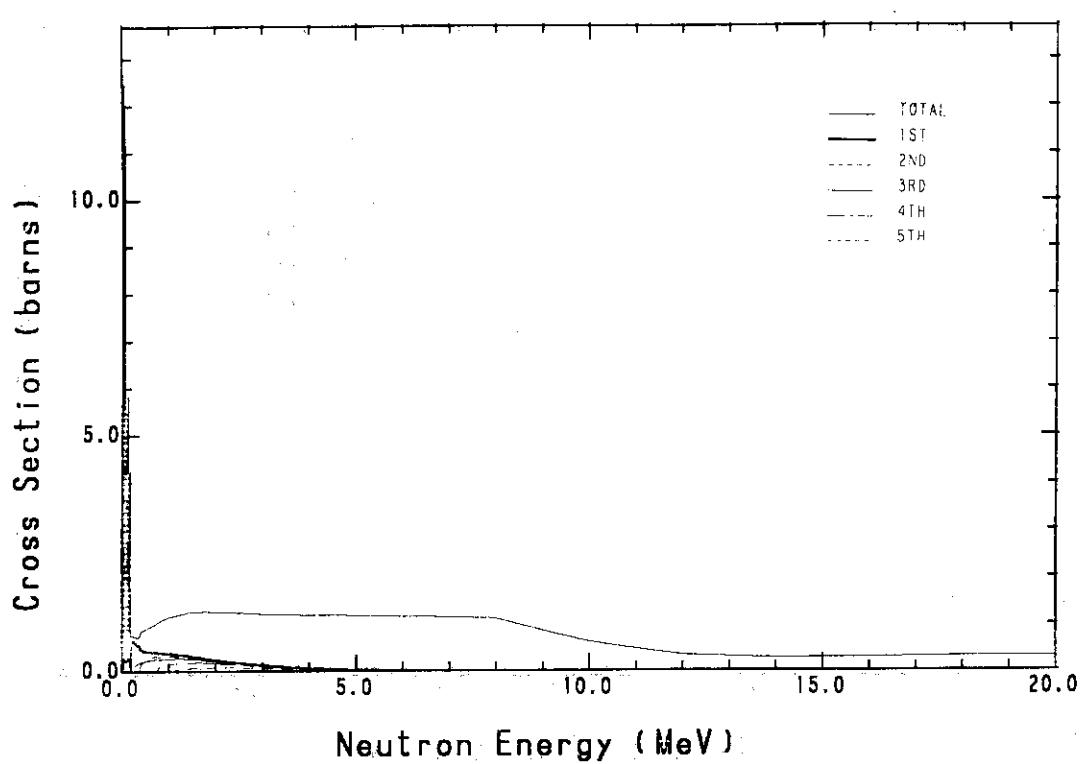


^{57}Fe
(n, γ)

MAT=2263
MT= 102

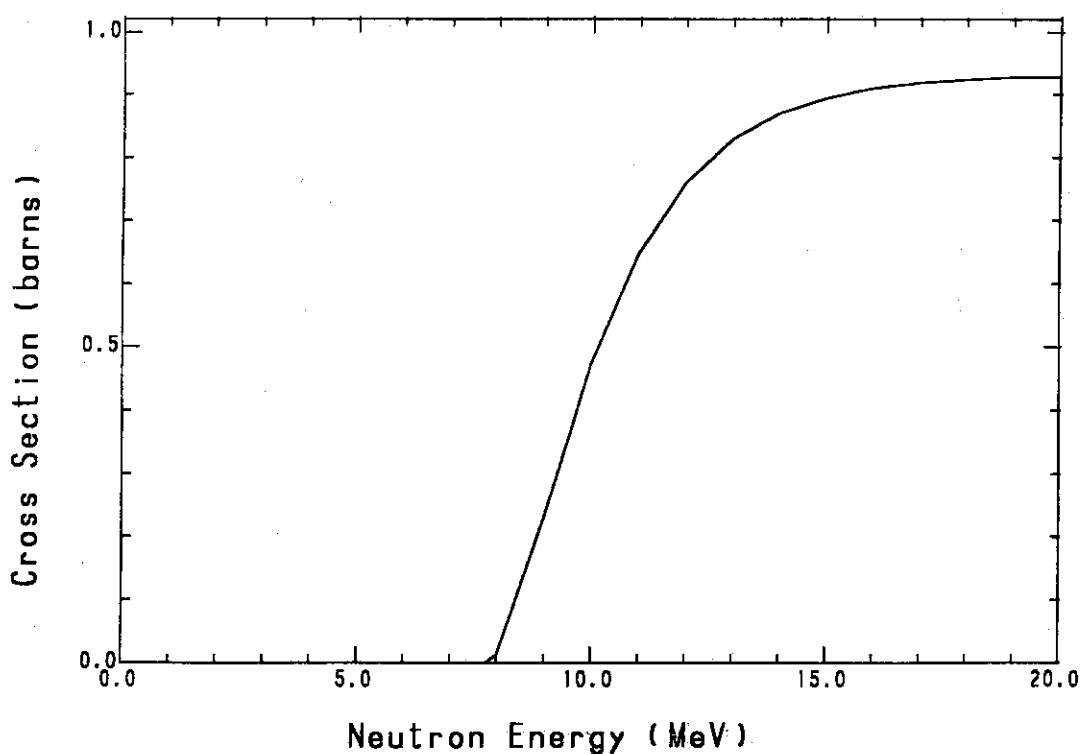


^{57}Fe
(n, n')



MAT=2263
MT= 4
51~55

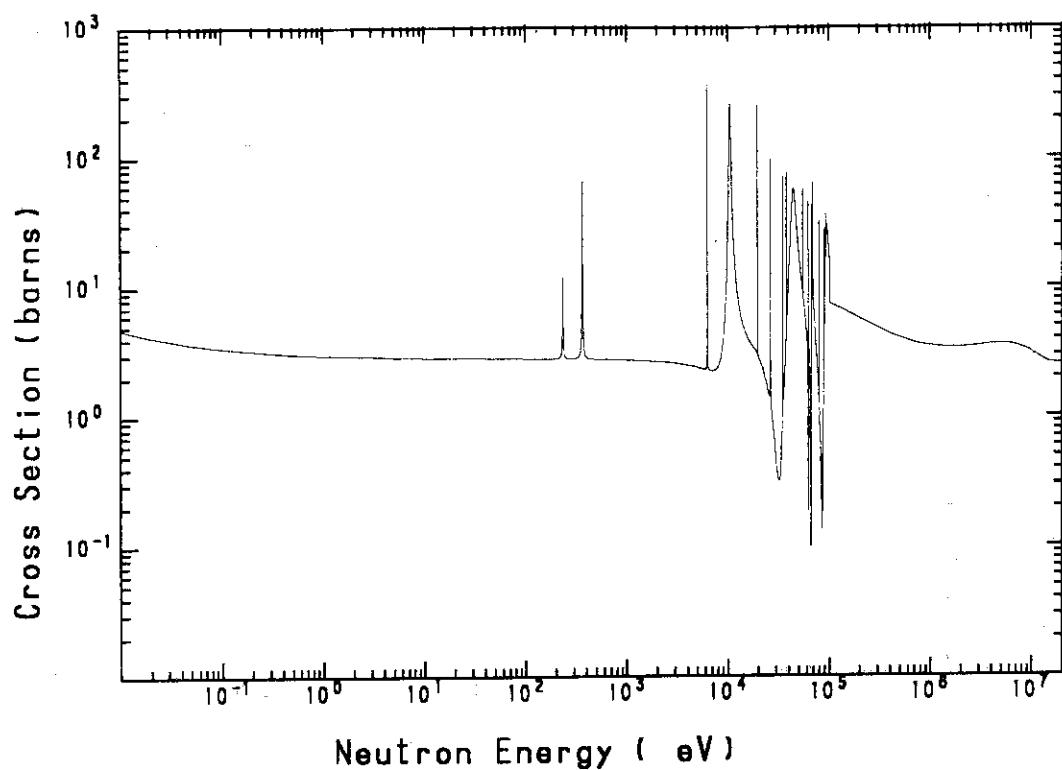
^{57}Fe
($n, 2n$)



MAT=2263
MT= 16

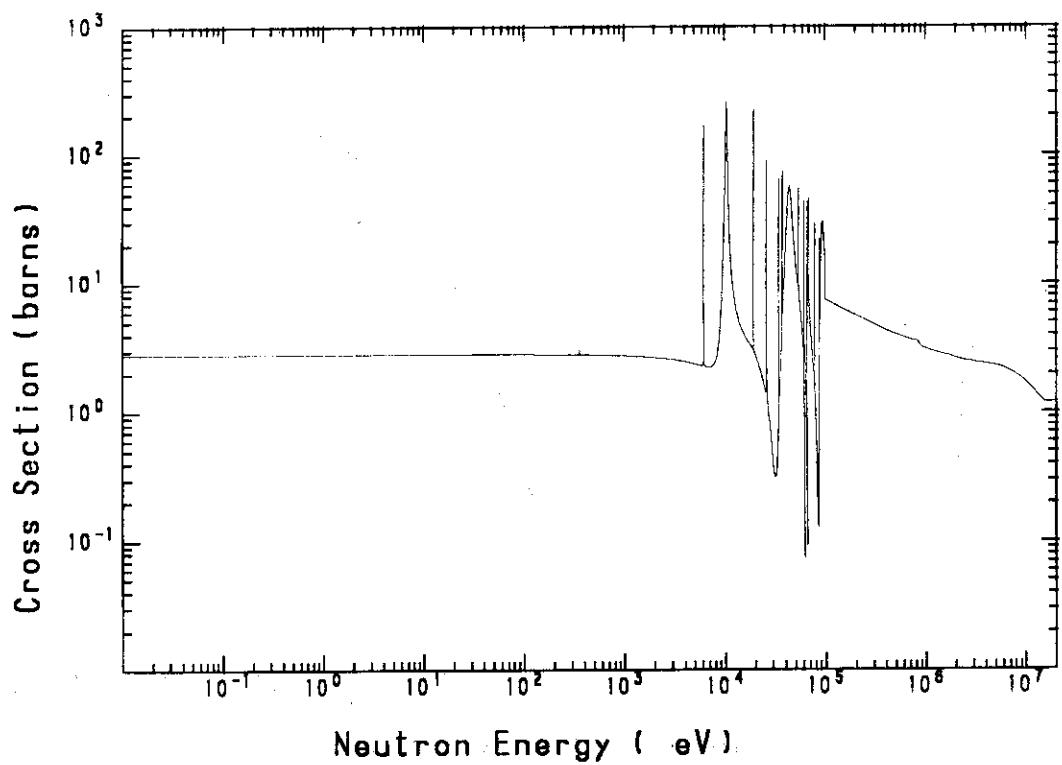
^{58}Fe
TOTAL

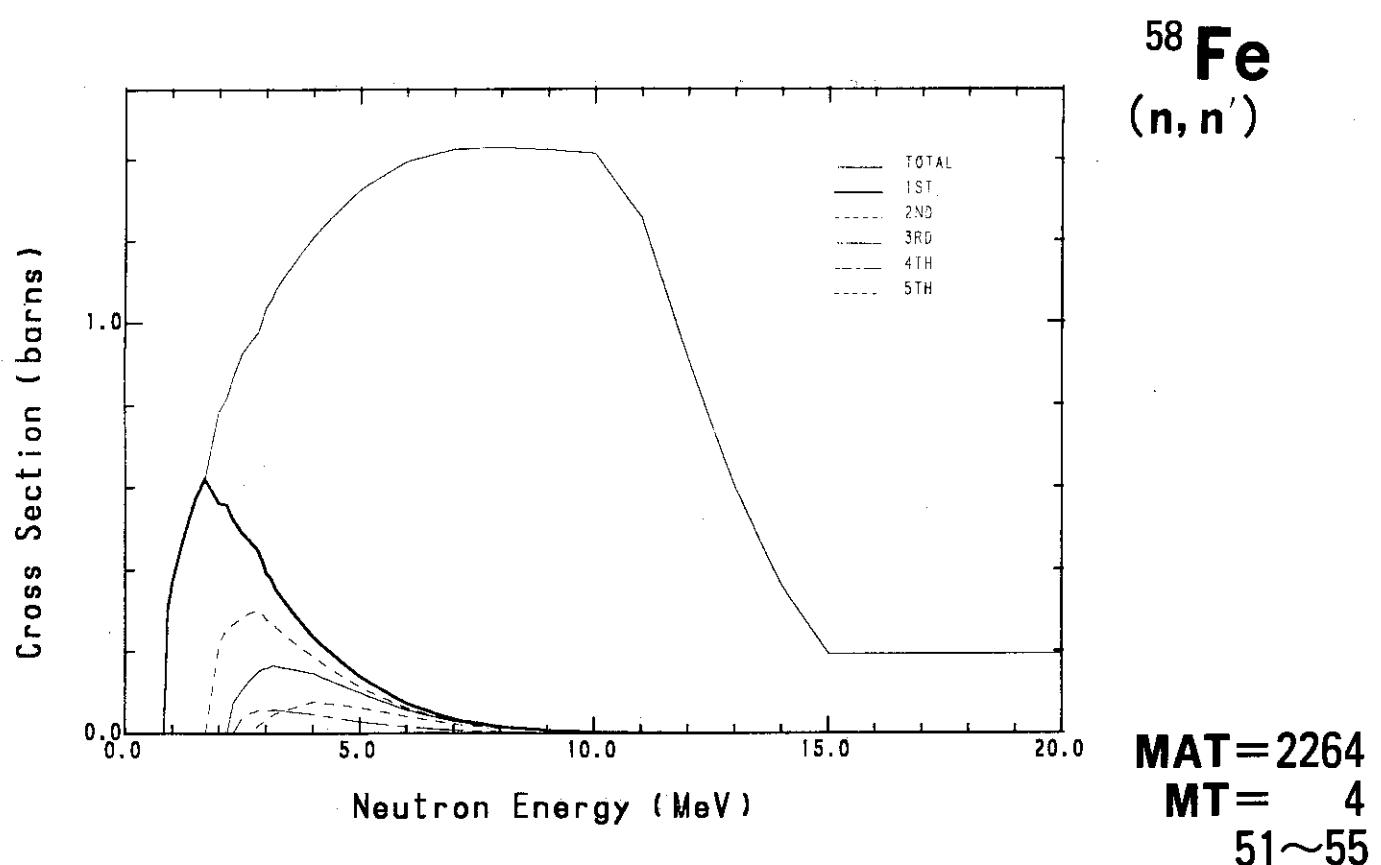
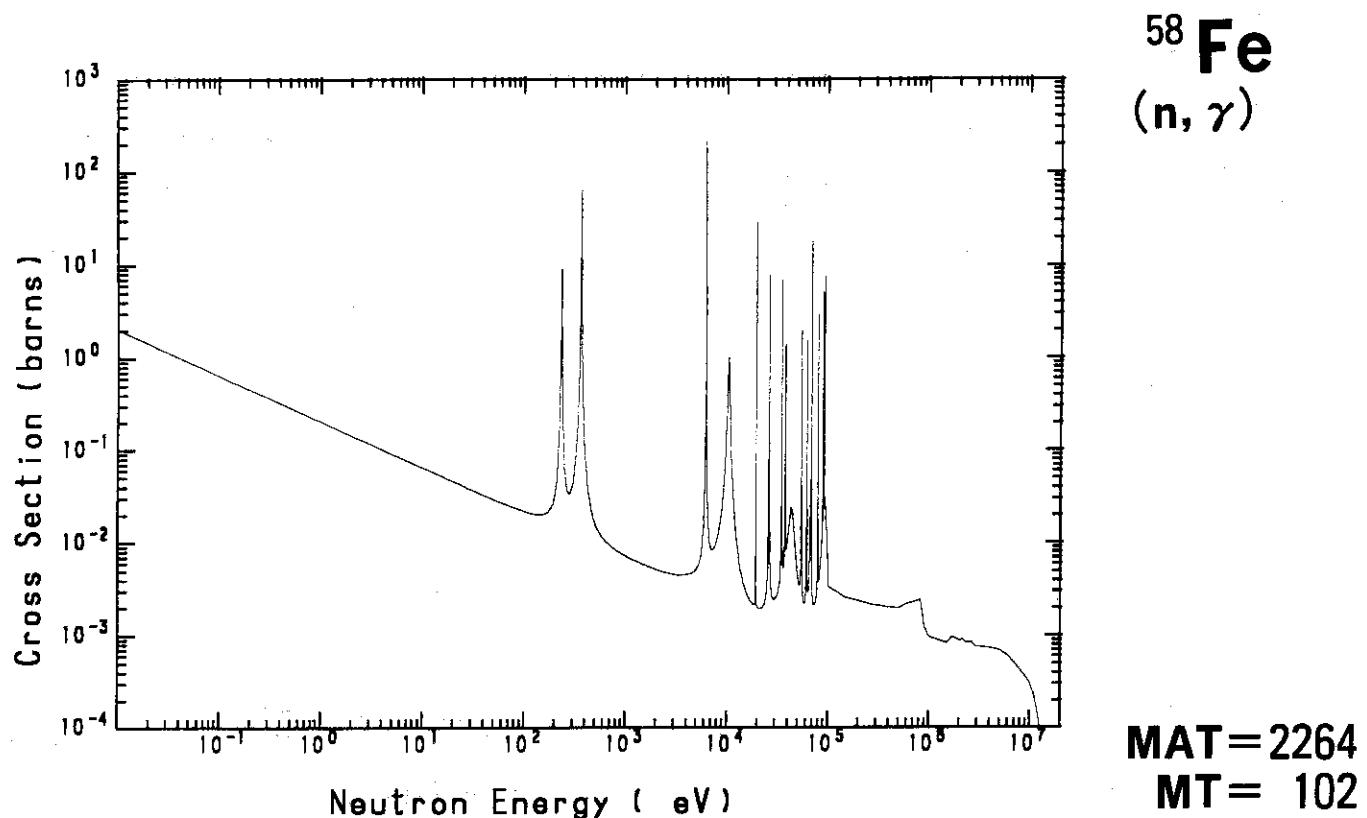
MAT=2264
MT= 1



^{58}Fe
(n, n)

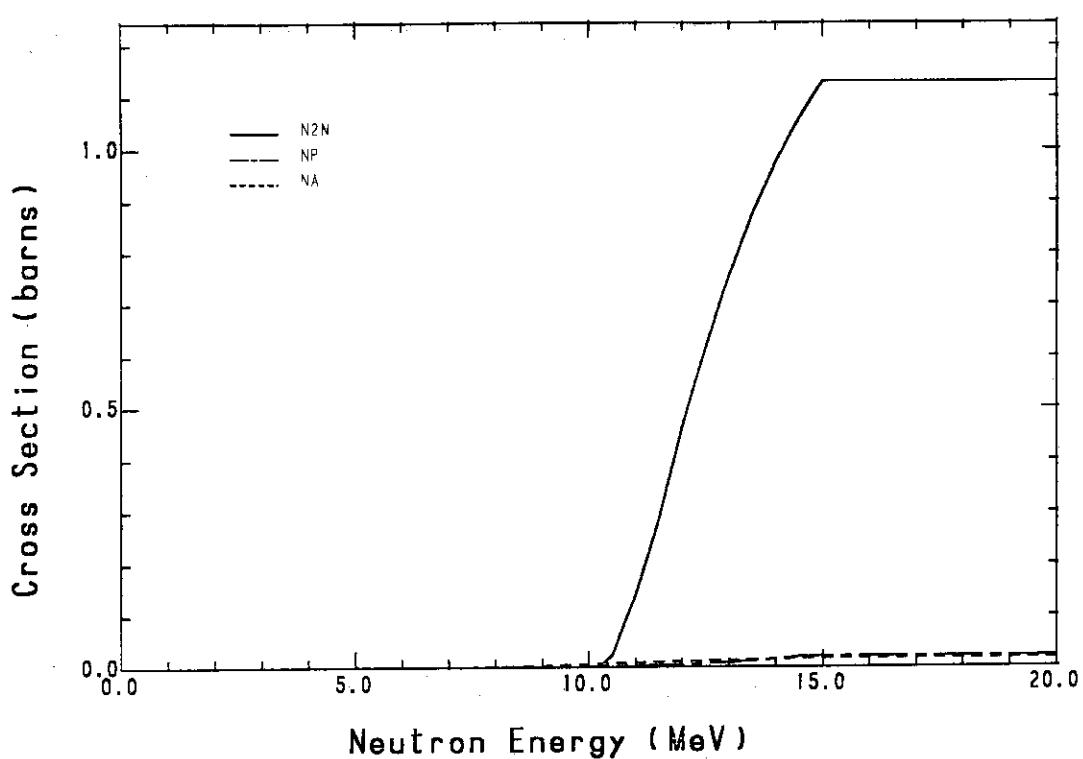
MAT=2264
MT= 2





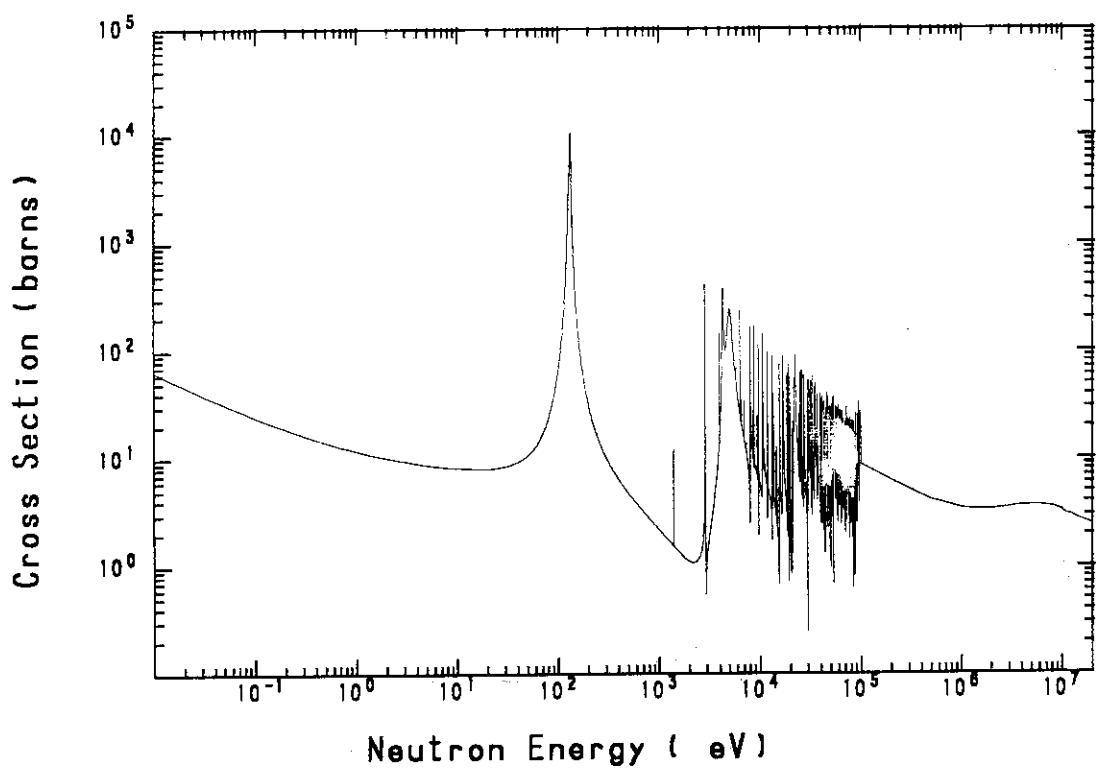
^{58}Fe
 $(n, 2n)$
 (n, p)
 (n, α)

MAT=2264
MT= 16
103
107

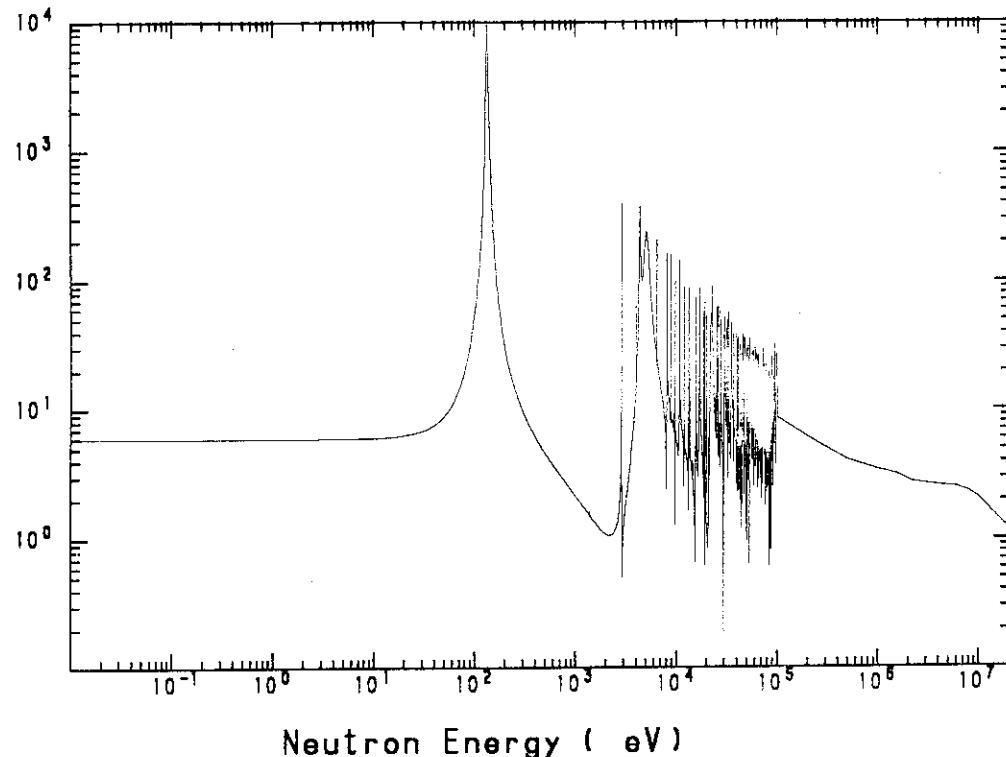


^{59}Co
TOTAL

MAT=2271
MT= 1



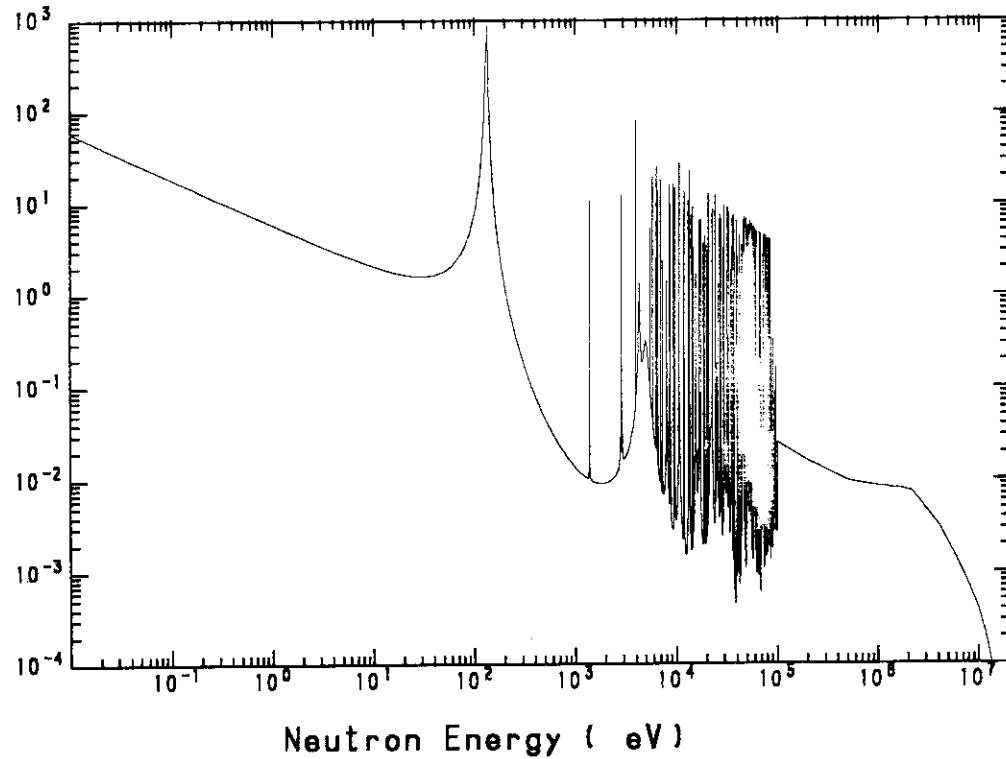
Cross Section (barns)



^{59}Co
(n, n)

MAT=2271
MT= 2

Cross Section (barns)

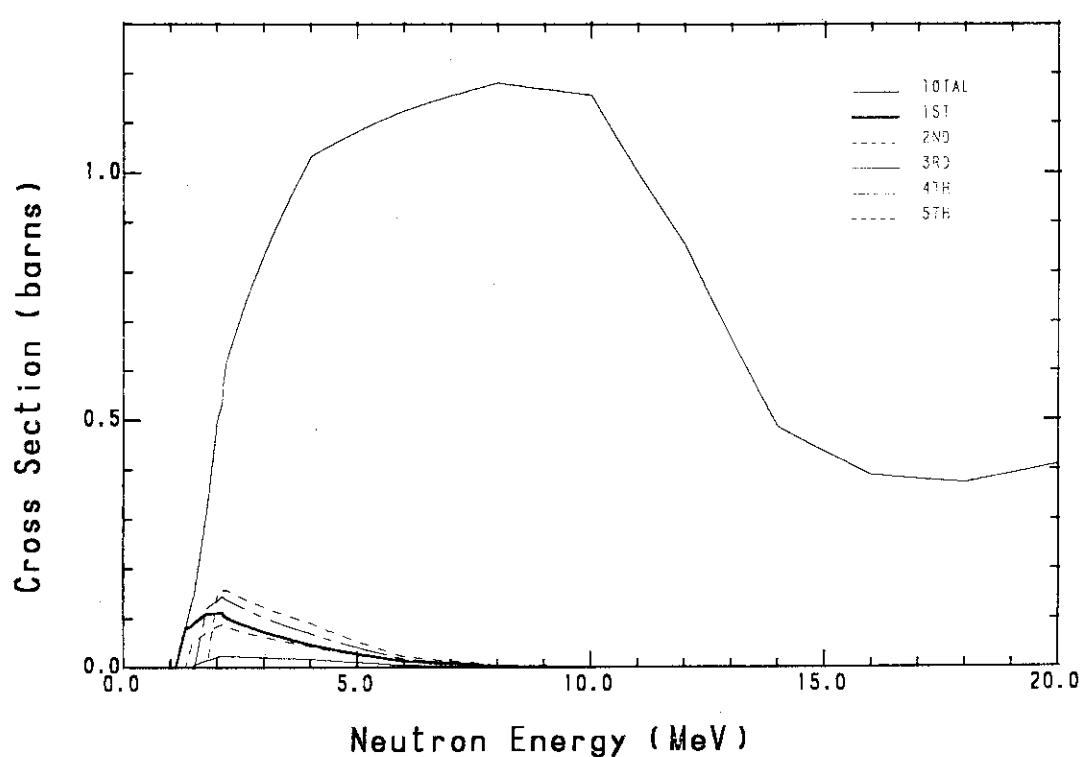


^{59}Co
(n, γ)

MAT=2271
MT= 102

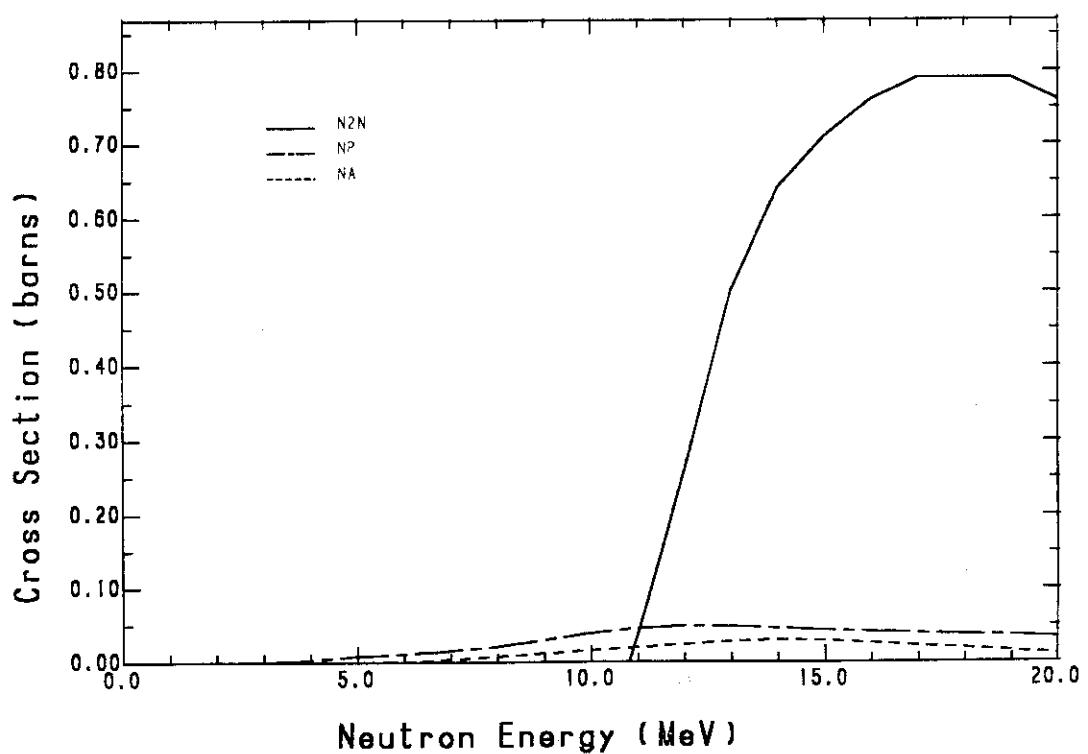
^{59}Co
 (n, n')

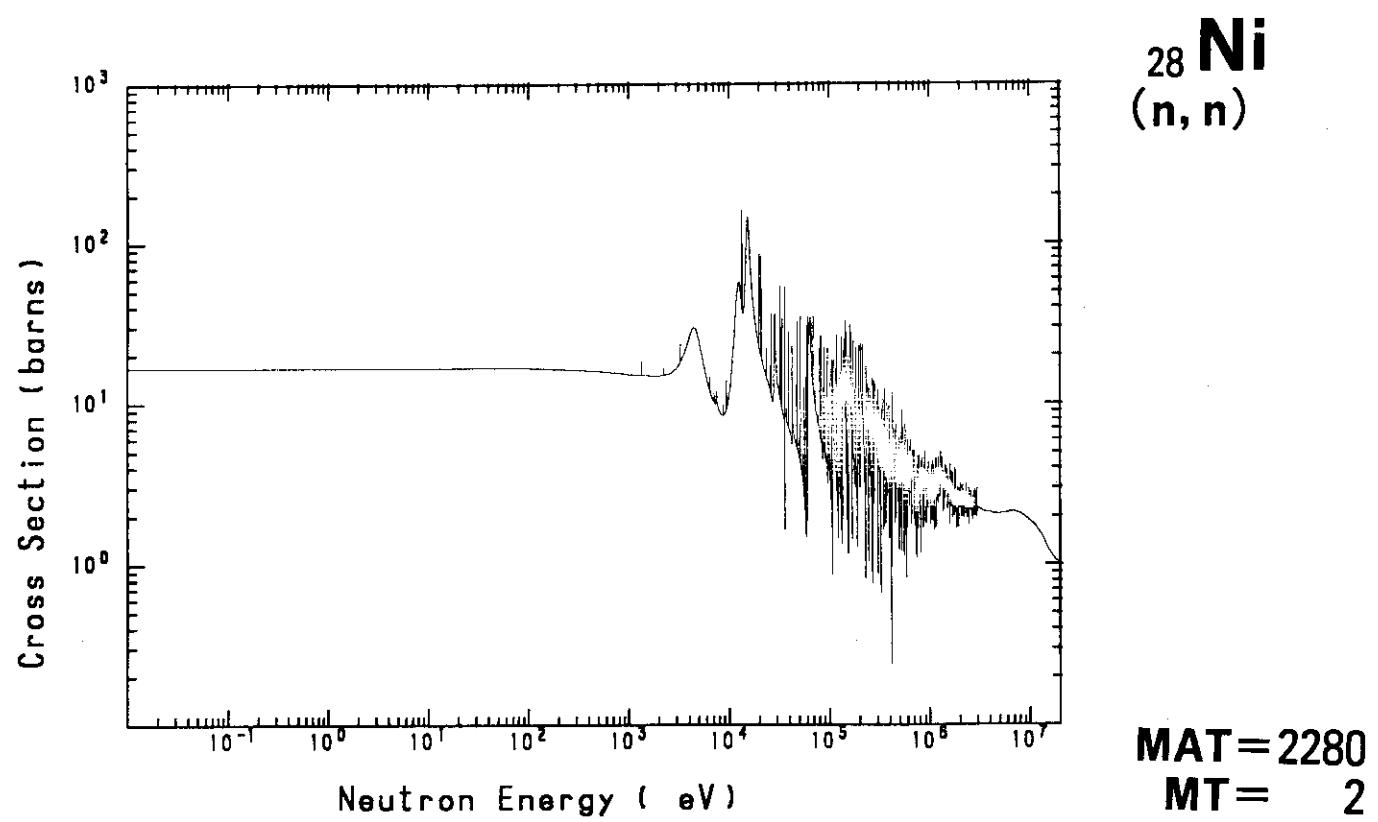
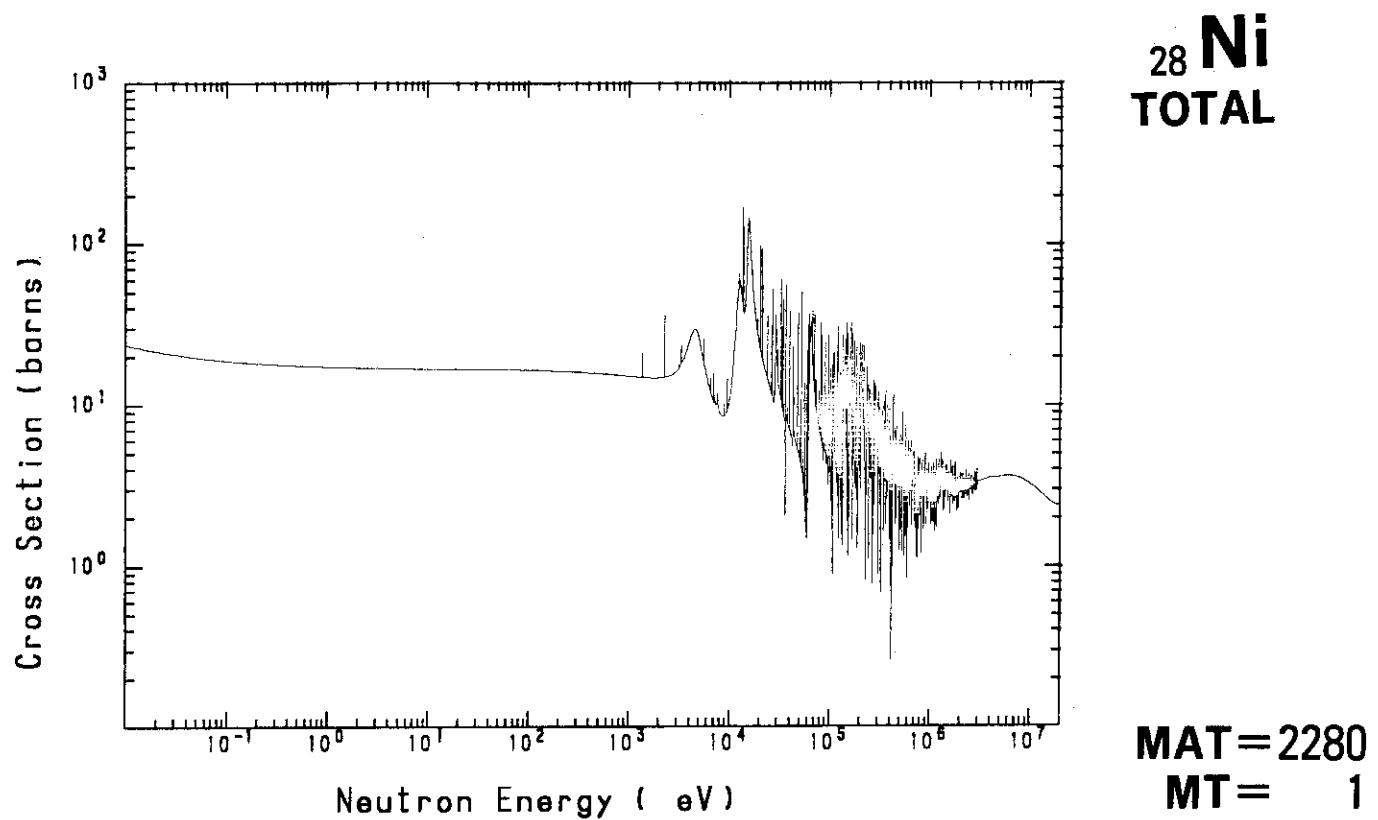
MAT=2271
MT= 4
51~55



^{59}Co
 $(n, 2n)$
 (n, p)
 (n, α)

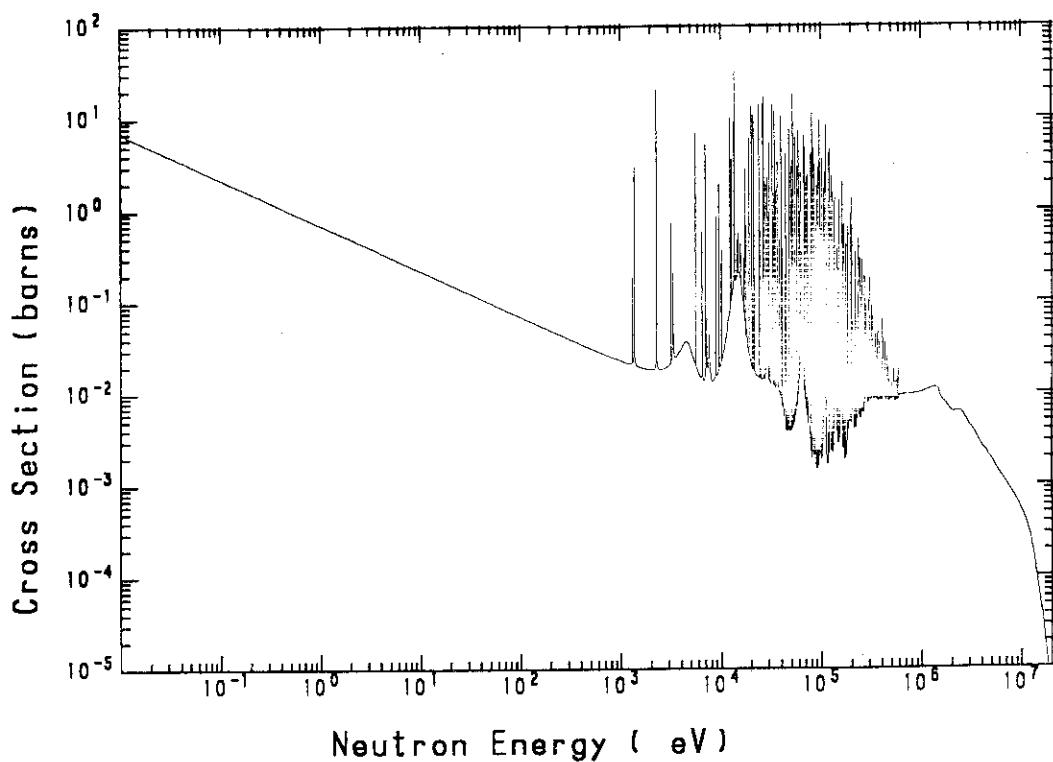
MAT=2271
MT= 16
103
107





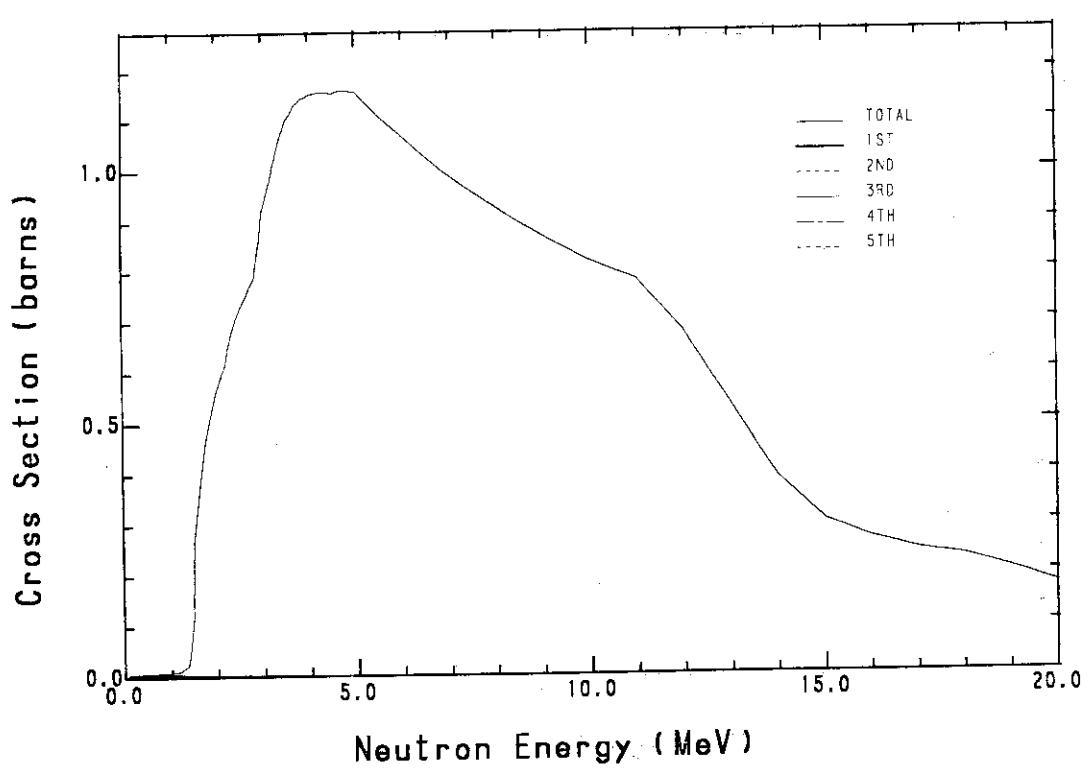
^{28}Ni
(n, γ)

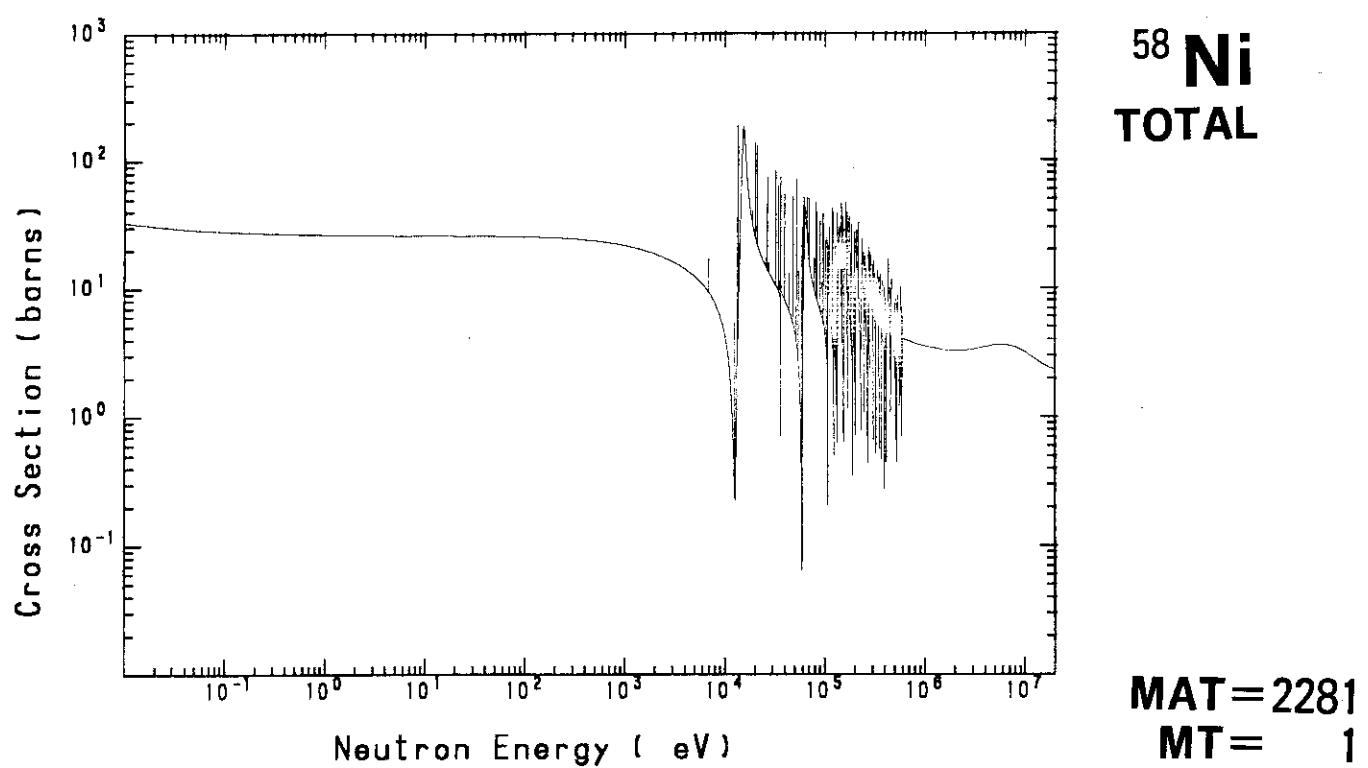
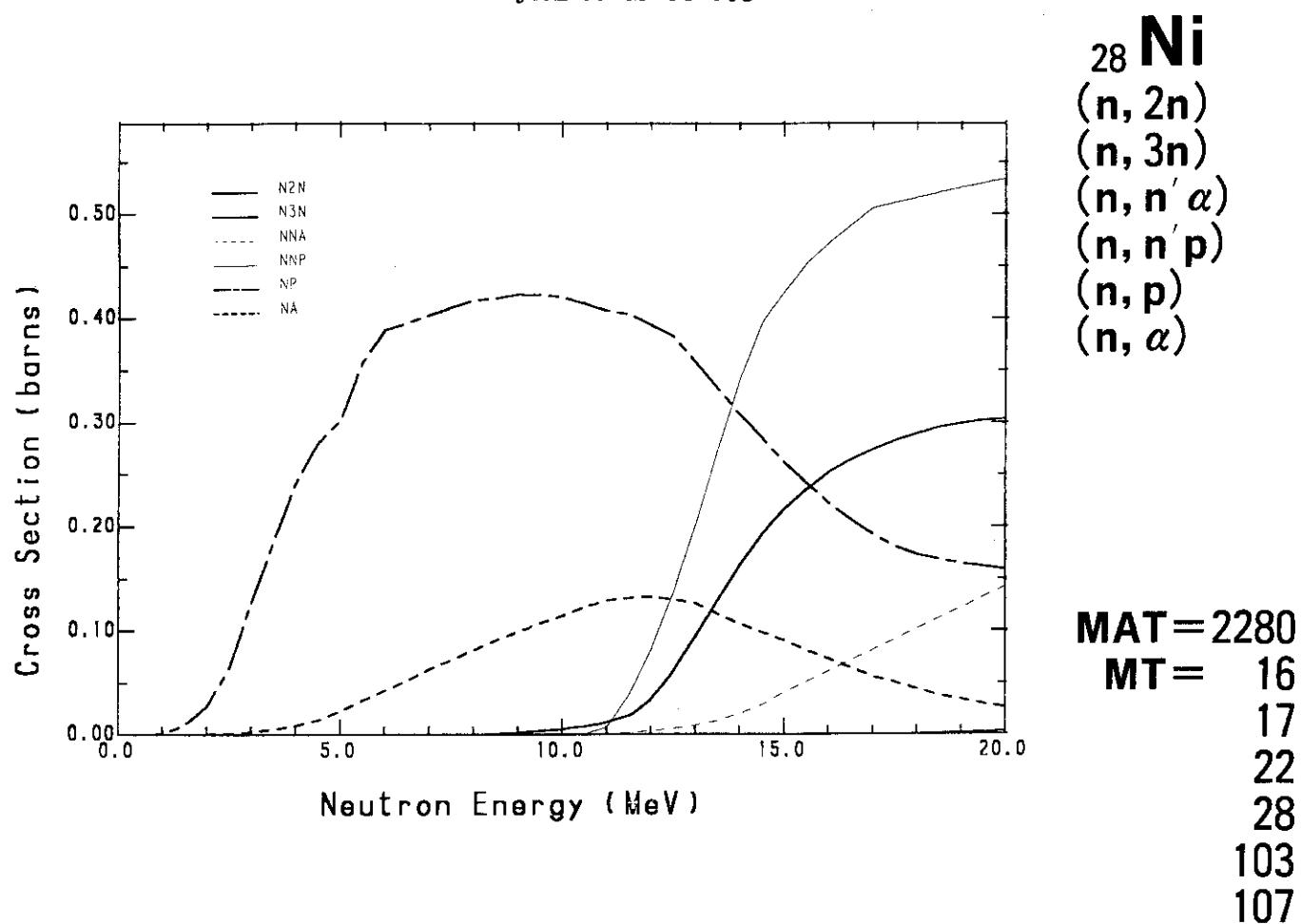
MAT=2280
MT= 102



^{28}Ni
(n, n')

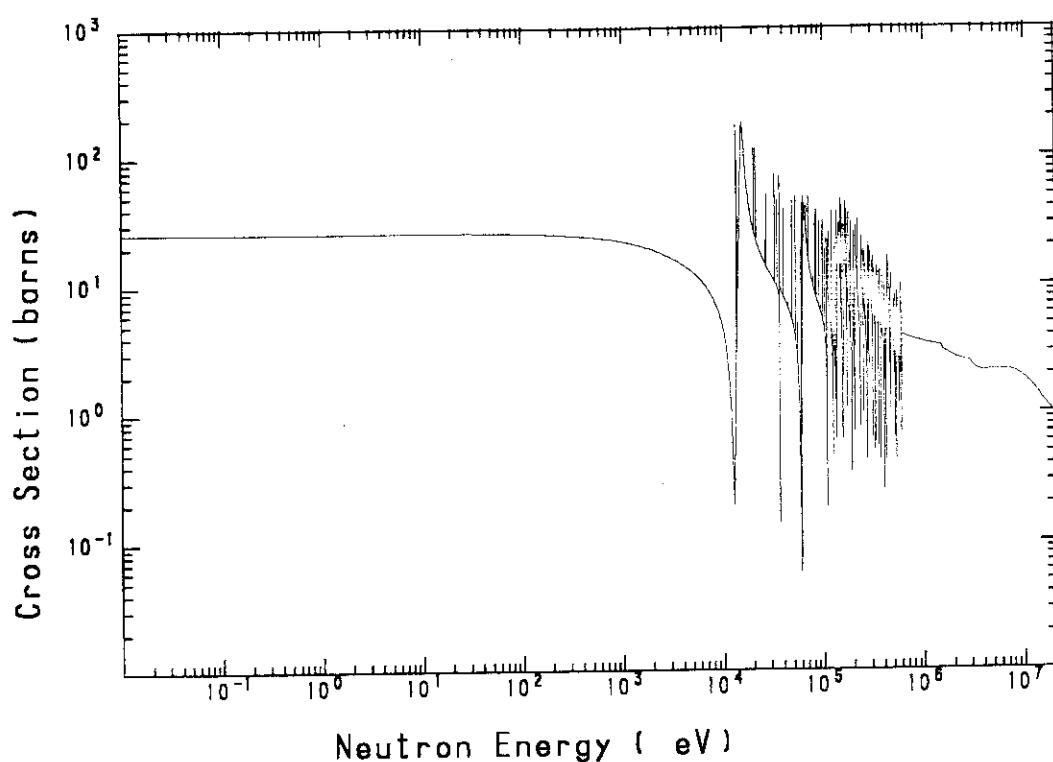
MAT=2280
MT= 4
51~55





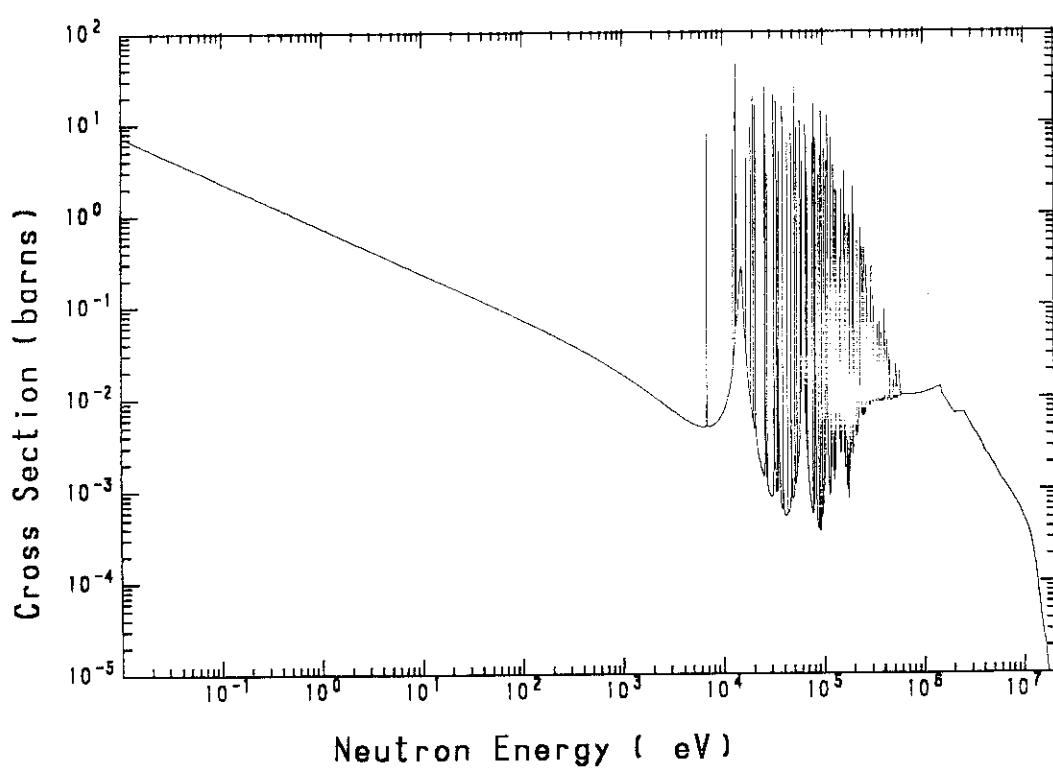
^{58}Ni
(n, n)

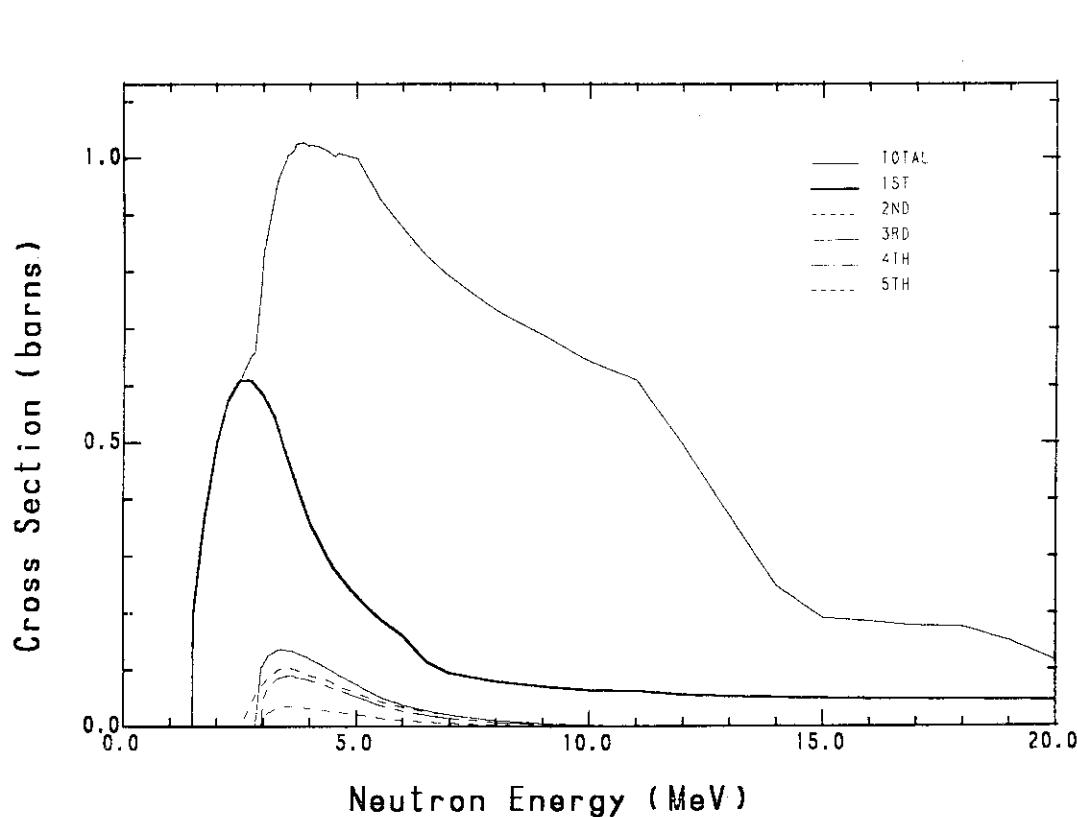
MAT=2281
MT = 2



^{58}Ni
(n, γ)

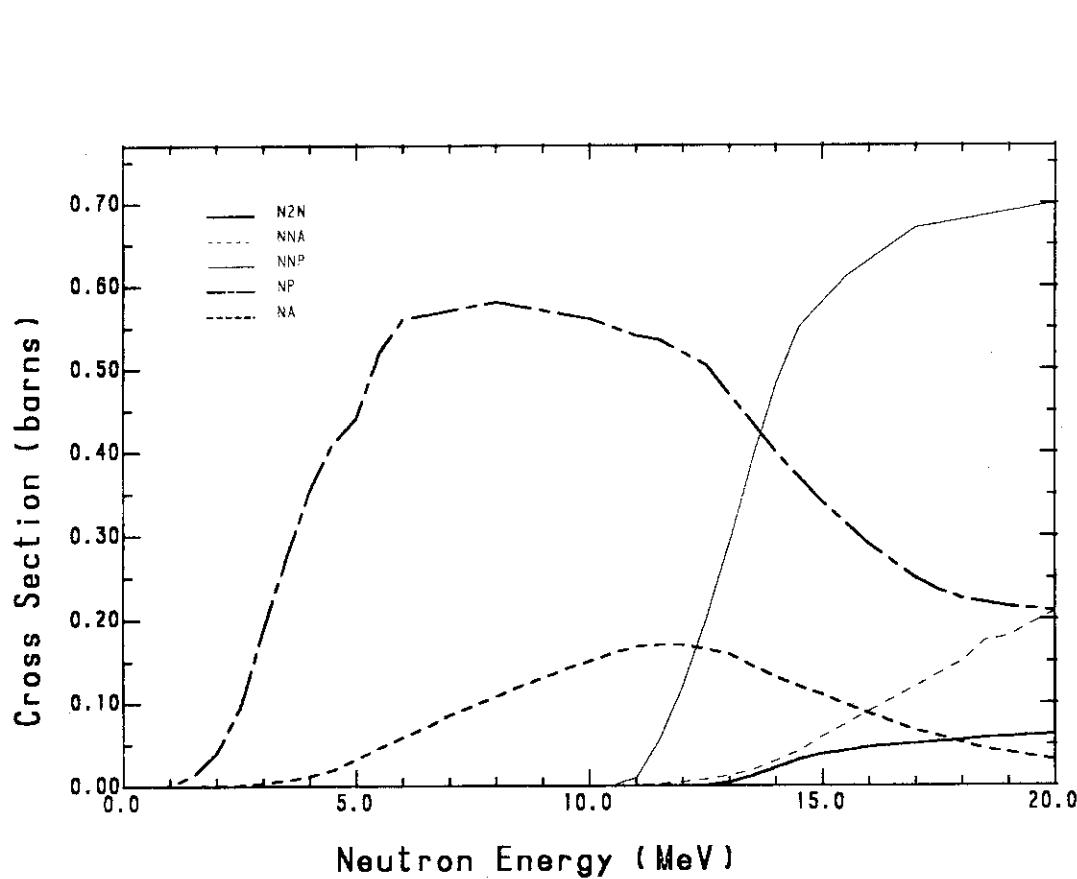
MAT=2281
MT = 102





^{58}Ni
(n, n')

MAT=2281
MT= 4
51~55

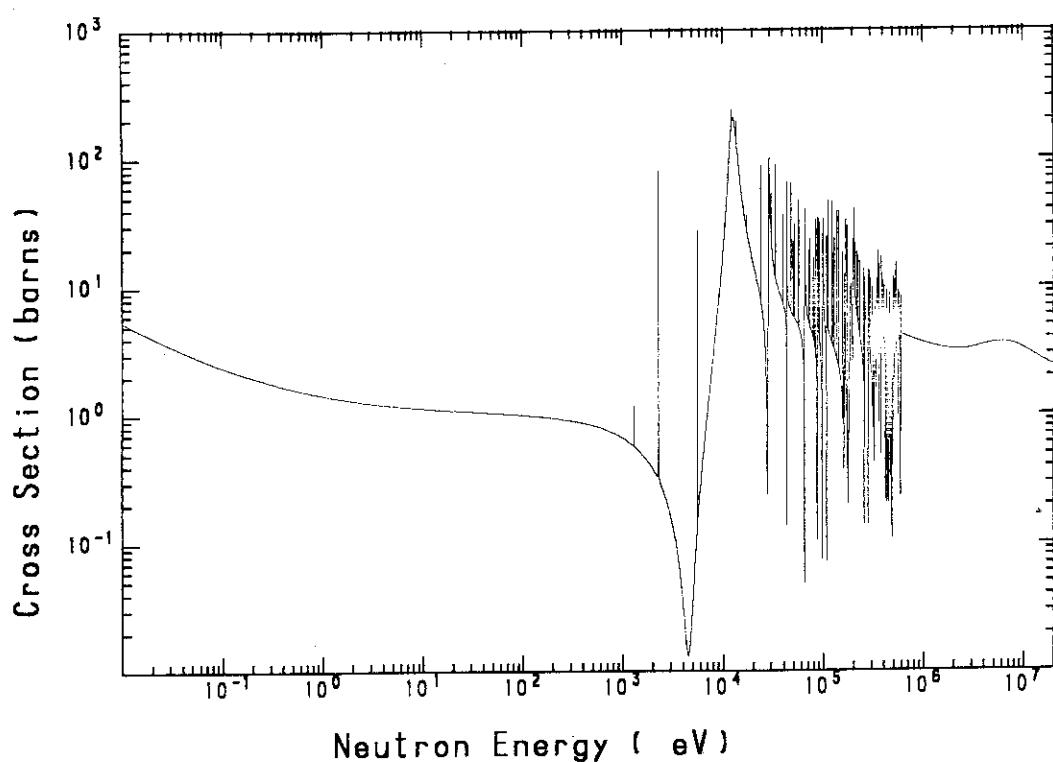


^{58}Ni
($n, 2n$)
($n, n' p$)
($n, n' \alpha$)
(n, p)
(n, α)

MAT=2281
MT= 16
22
28
103
107

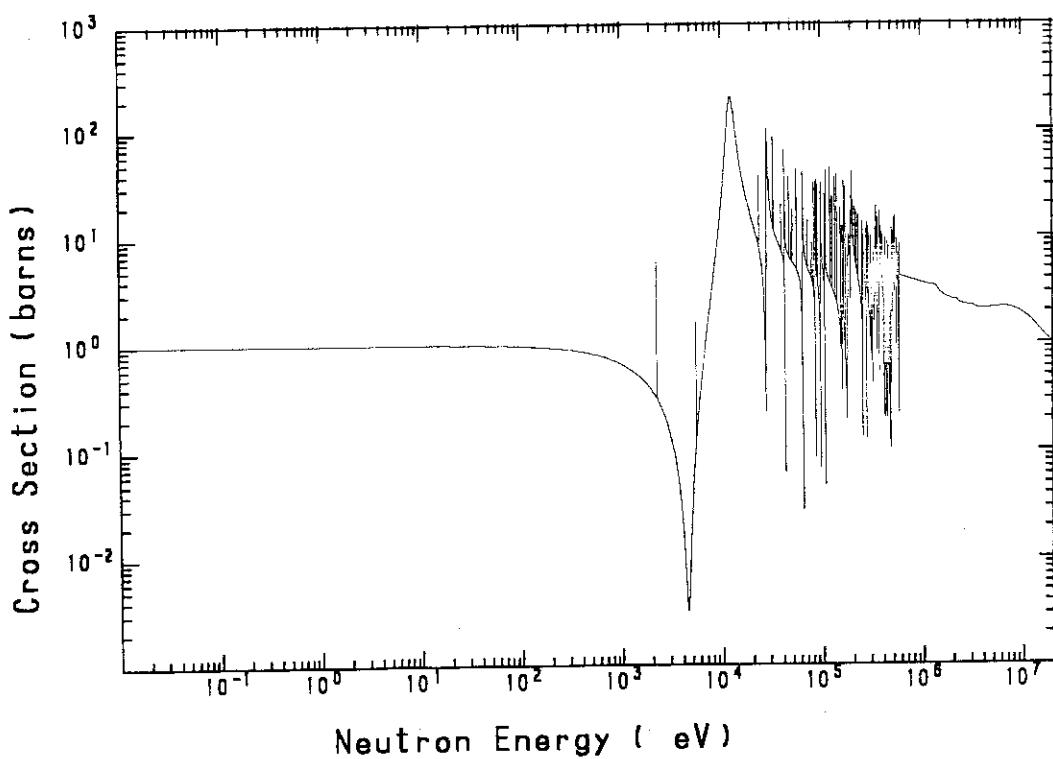
60 Ni
TOTAL

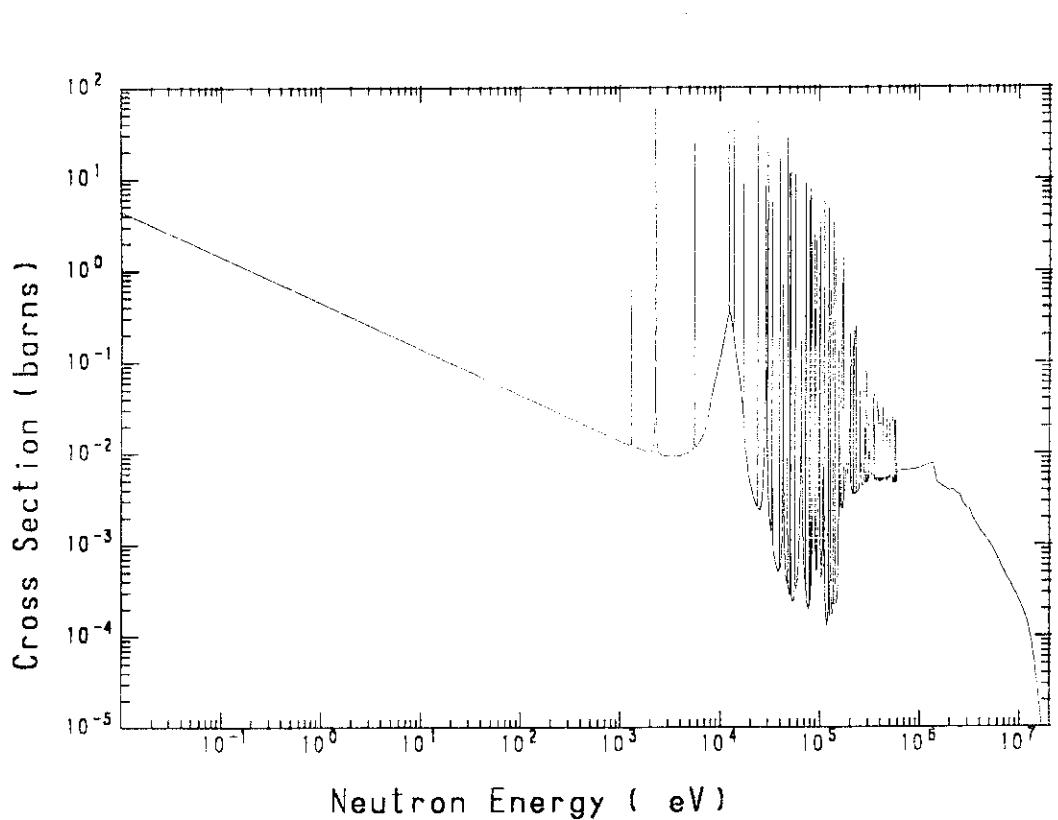
MAT=2282
MT= 1



60 Ni
(n, n)

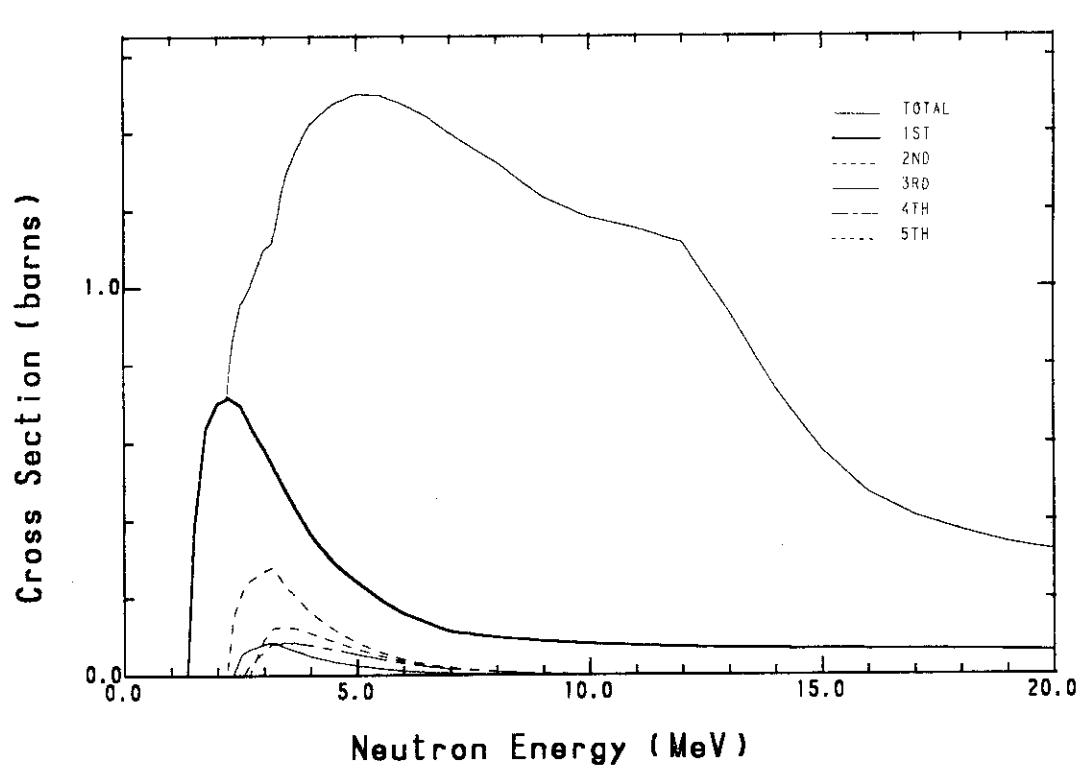
MAT=2282
MT= 2





^{60}Ni
 (n, γ)

MAT=2282
MT= 102

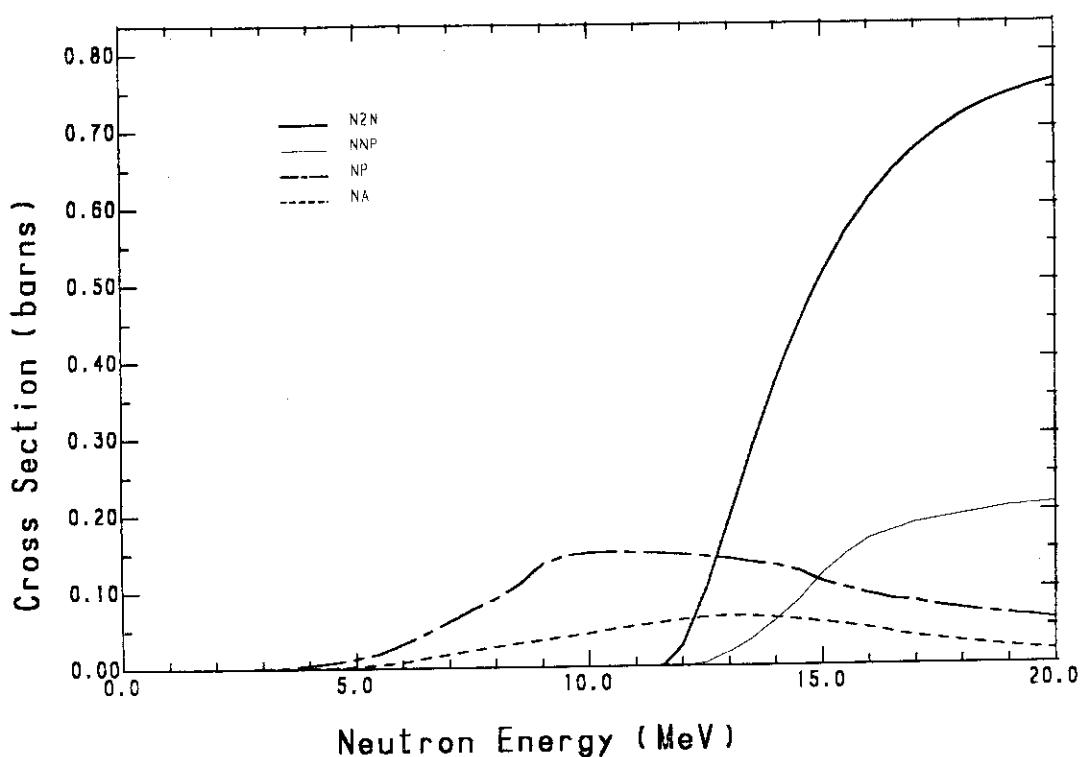


^{60}Ni
 (n, n')

MAT=2282
MT= 4
51~55

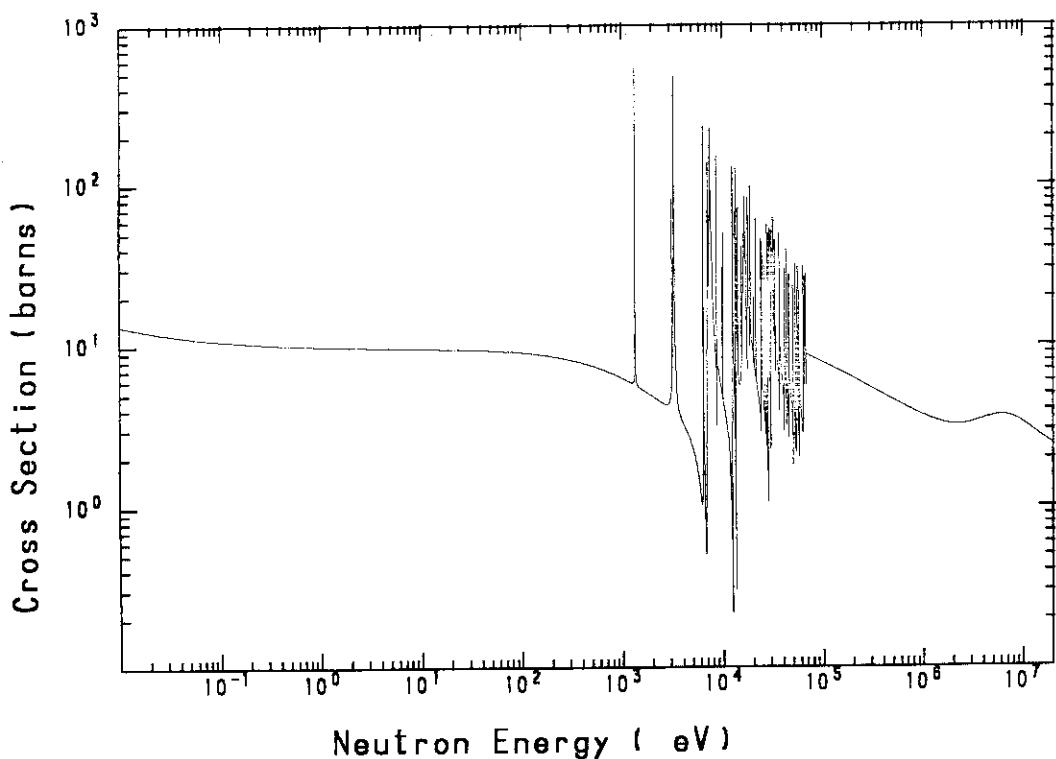
^{60}Ni
 $(n, 2n)$
 $(n, n'p)$
 (n, p)
 (n, α)

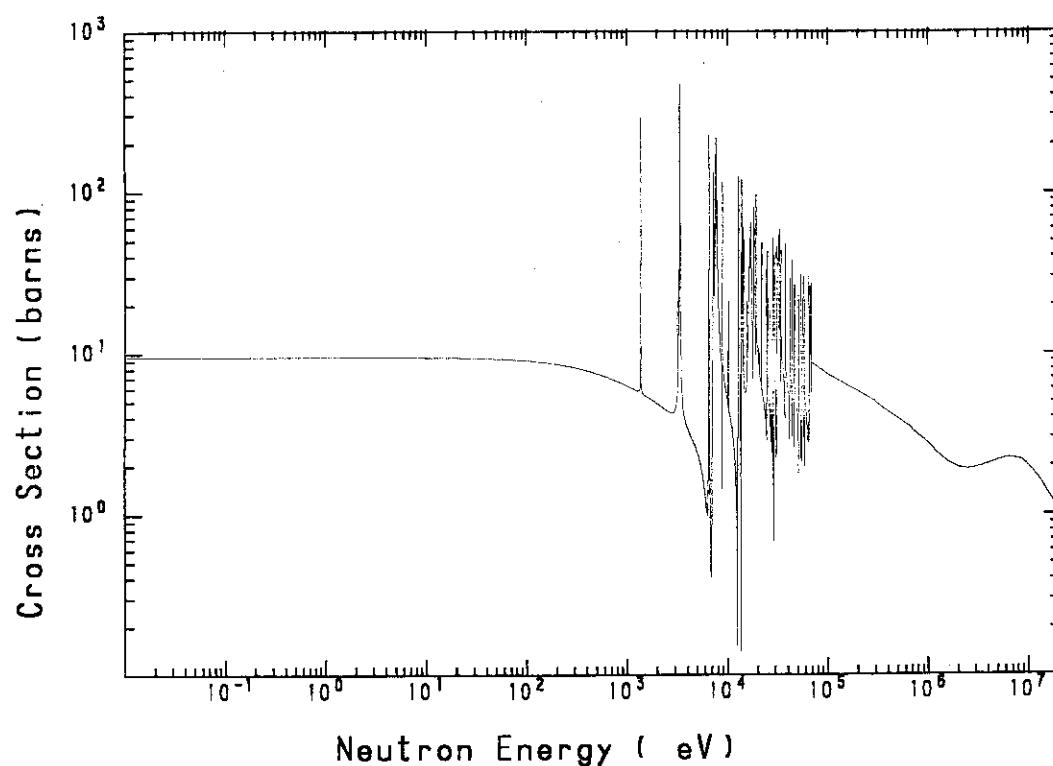
MAT = 2282
MT = 16
28
103
107



^{61}Ni
TOTAL

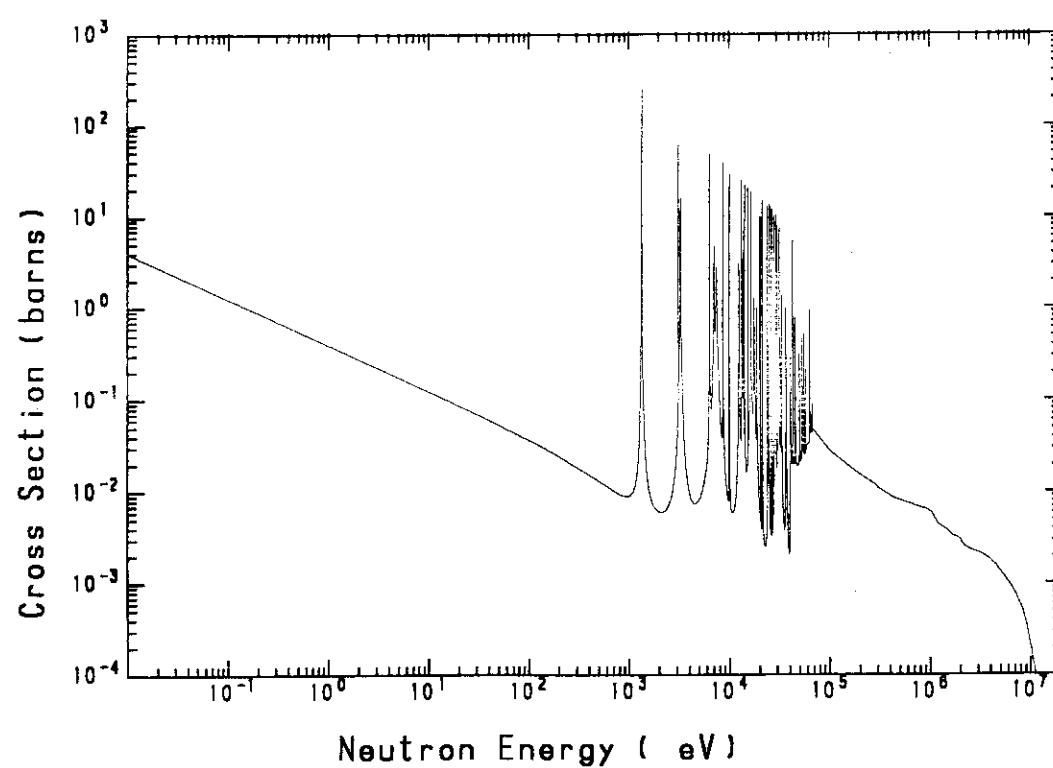
MAT = 2283
MT = 1





^{61}Ni
(n, n)

MAT=2283
MT= 2

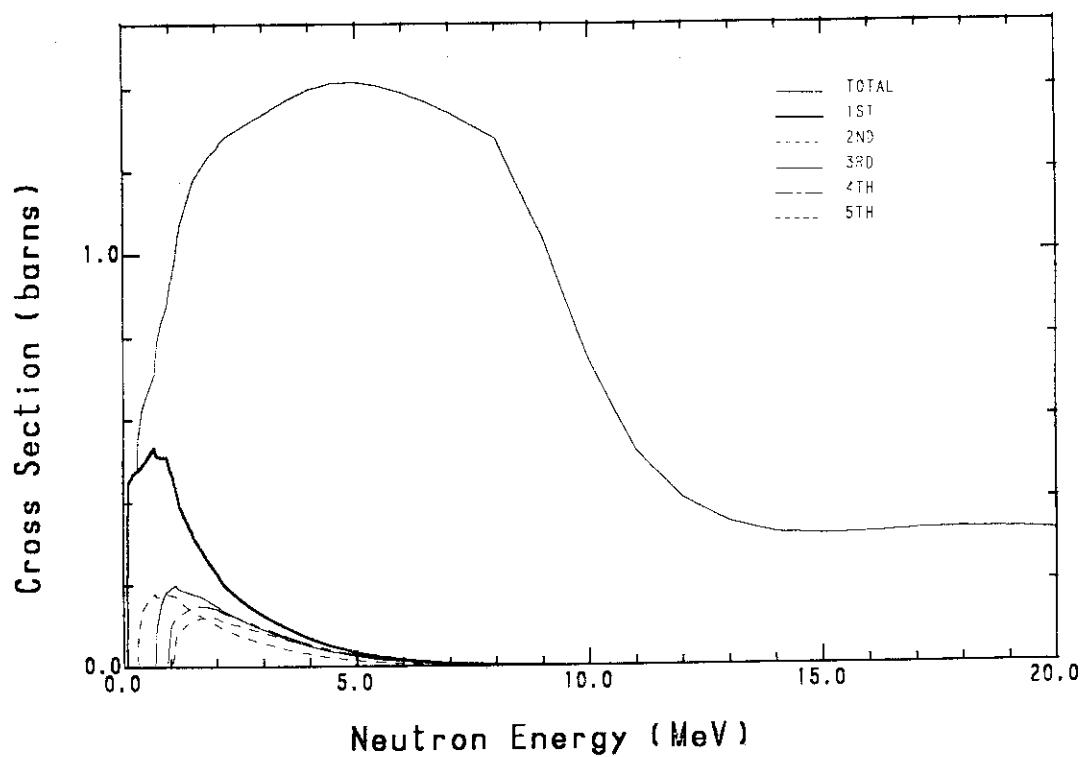


^{61}Ni
(n, γ)

MAT=2283
MT= 102

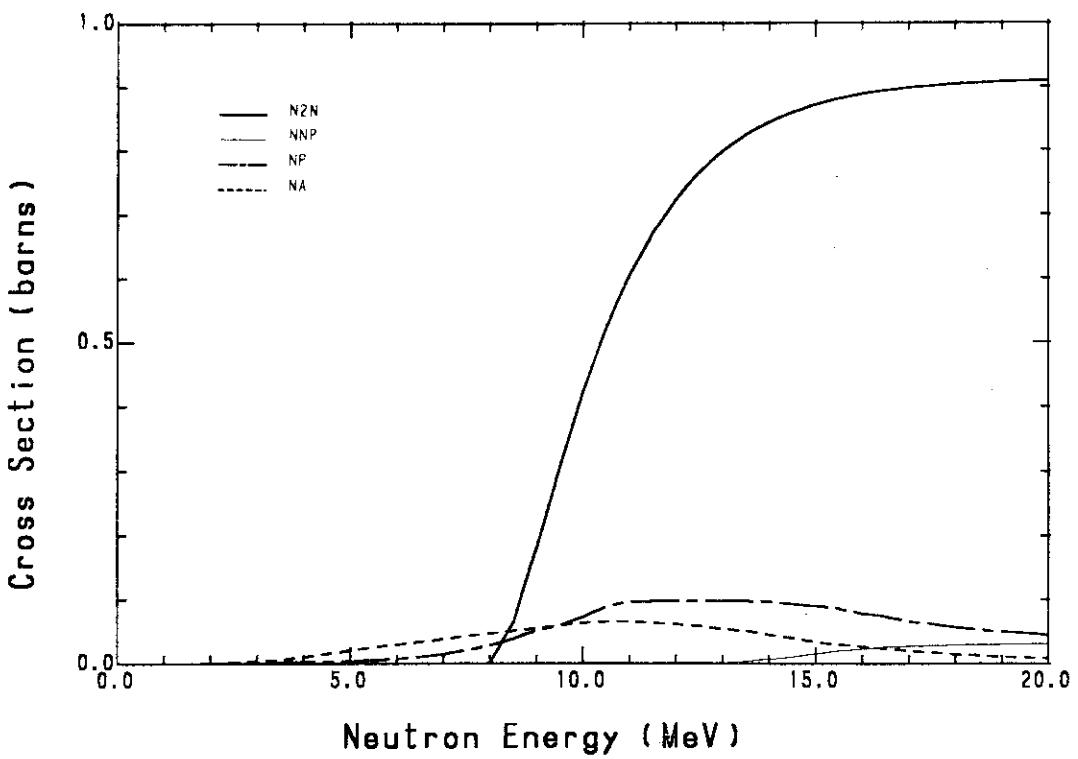
^{61}Ni
 (n, n')

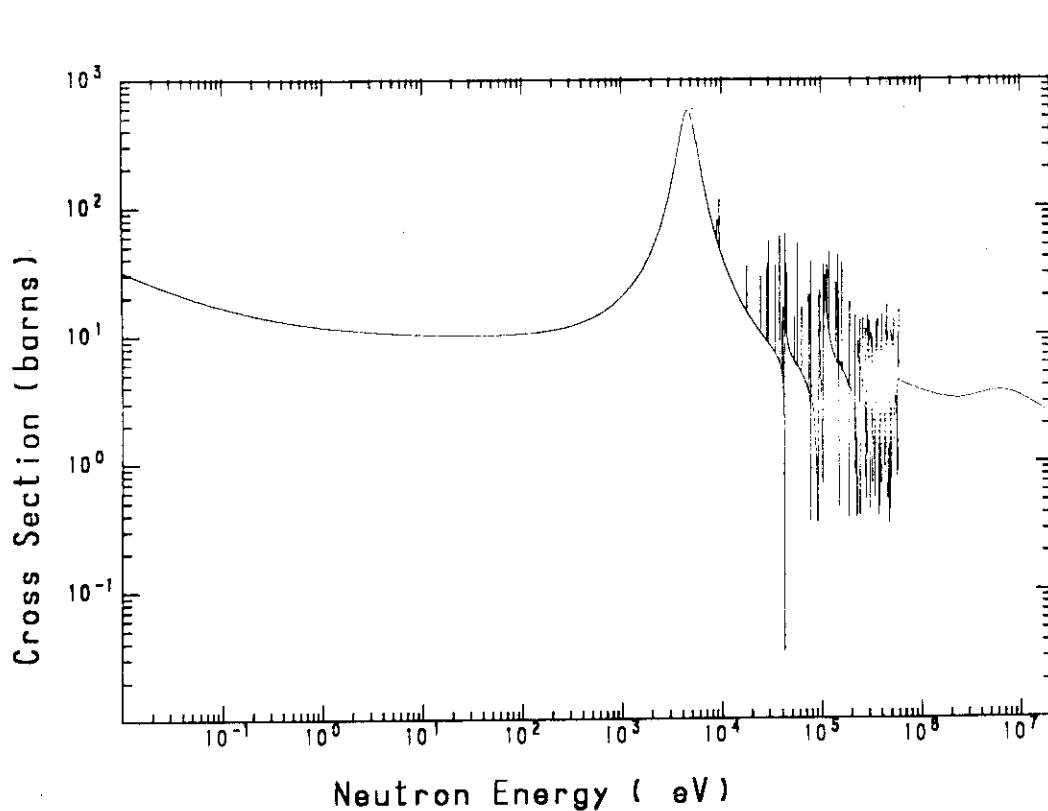
MAT=2283
MT= 4
51~55



^{61}Ni
 $(n, 2n)$
 $(n, n'p)$
 (n, p)
 (n, α)

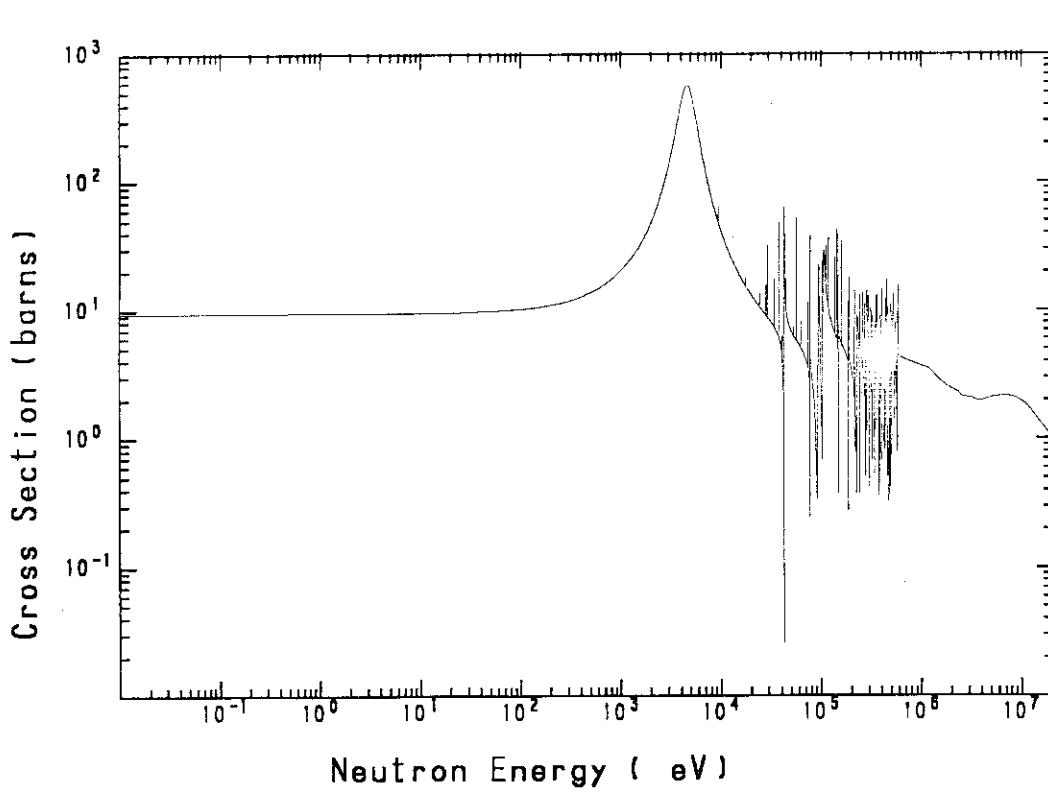
MAT=2283
MT= 16
28
103
107





^{62}Ni
TOTAL

MAT=2284
MT= 1

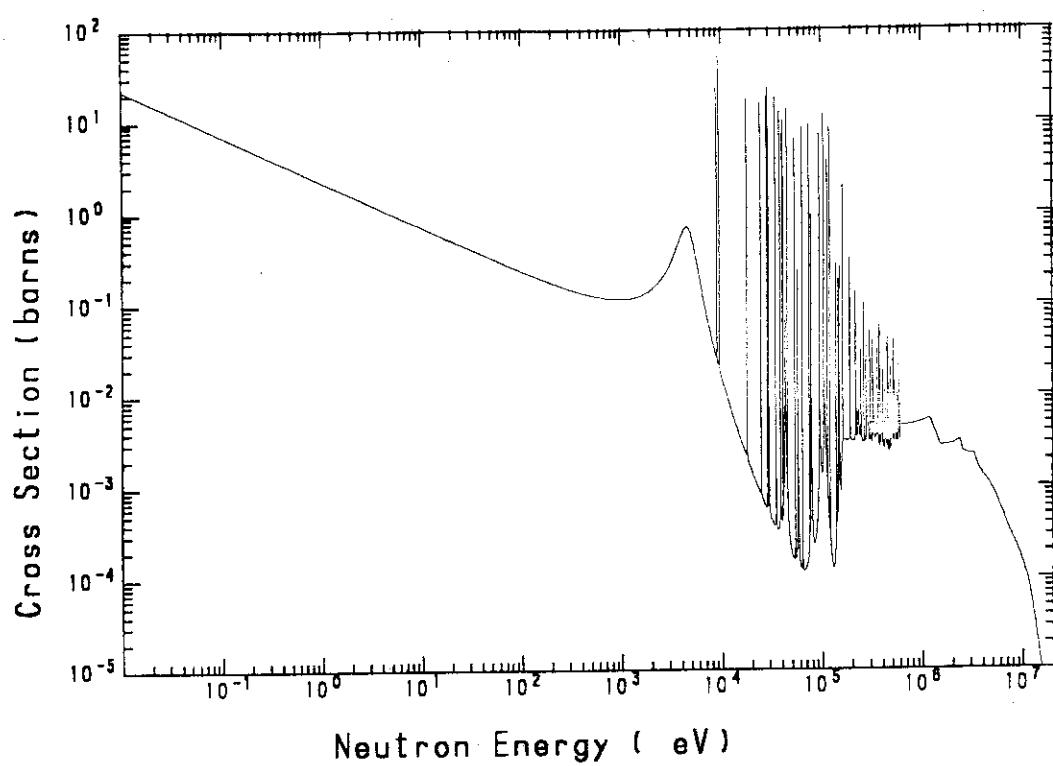


^{62}Ni
(n, n)

MAT=2284
MT= 2

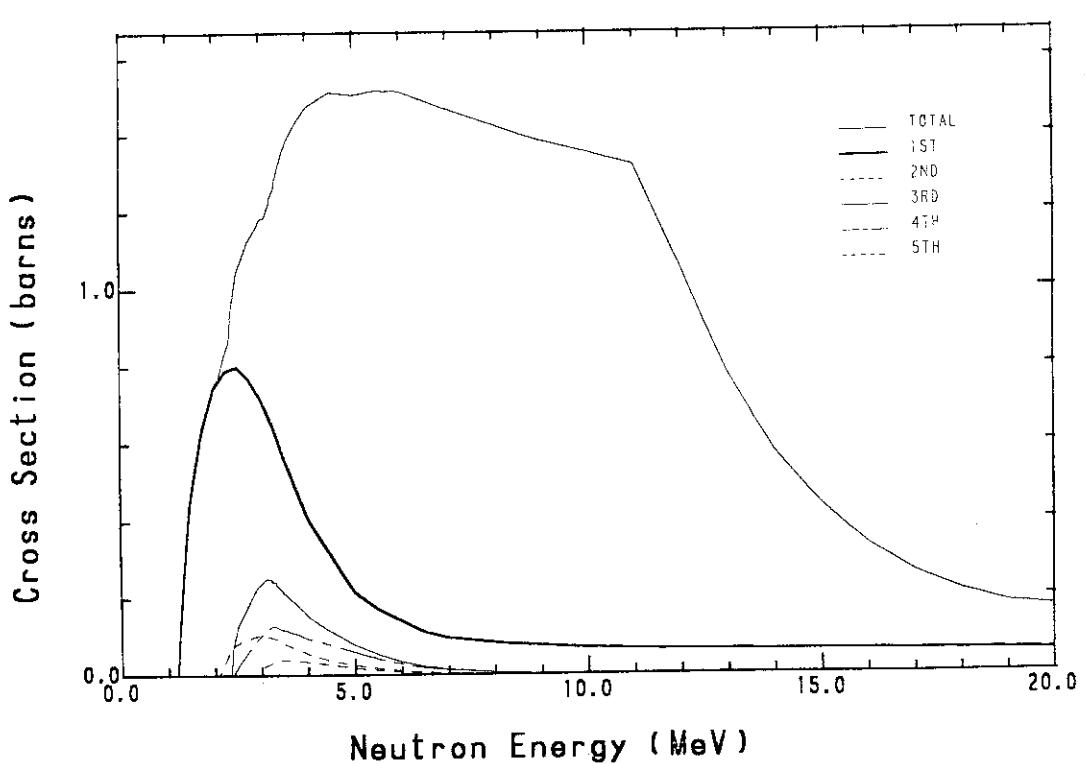
^{62}Ni
(n, γ)

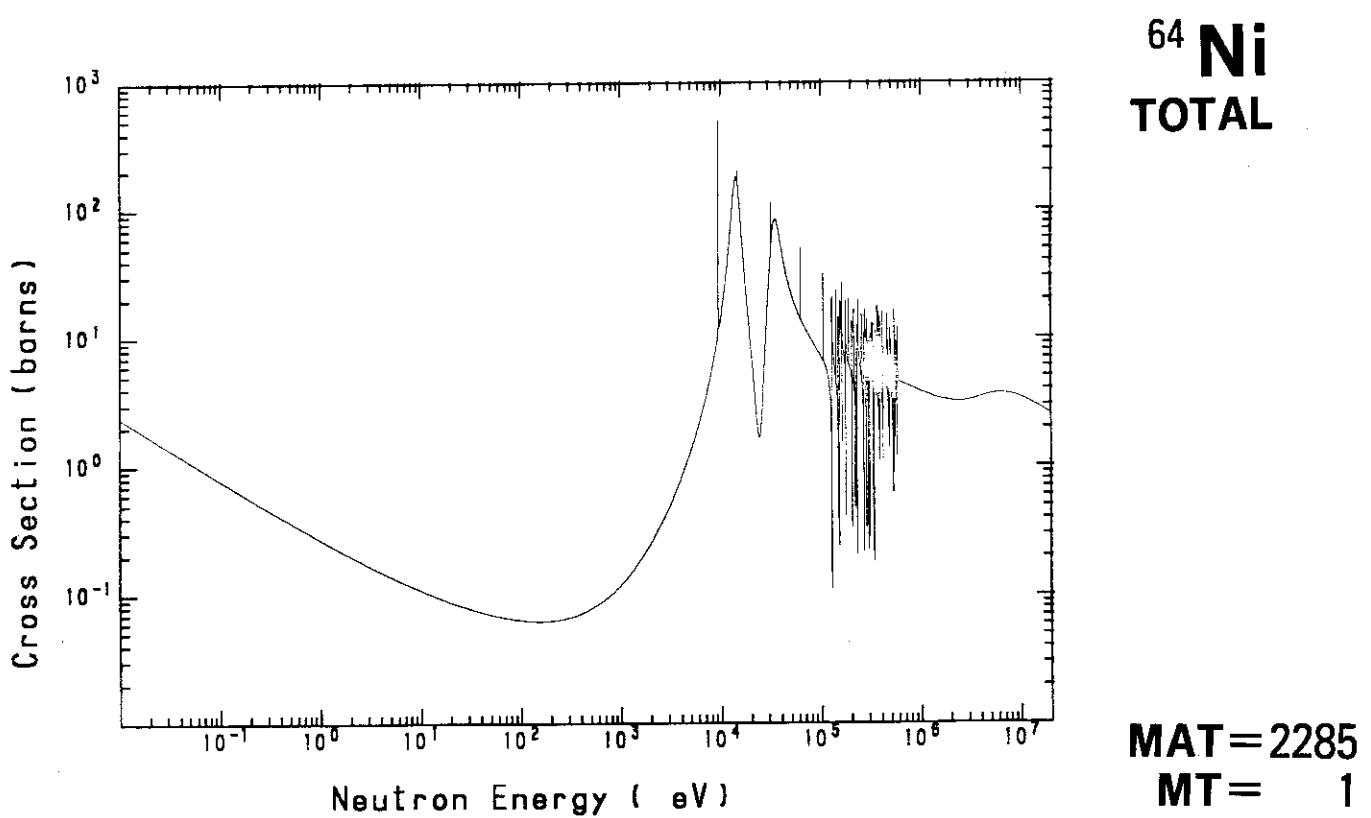
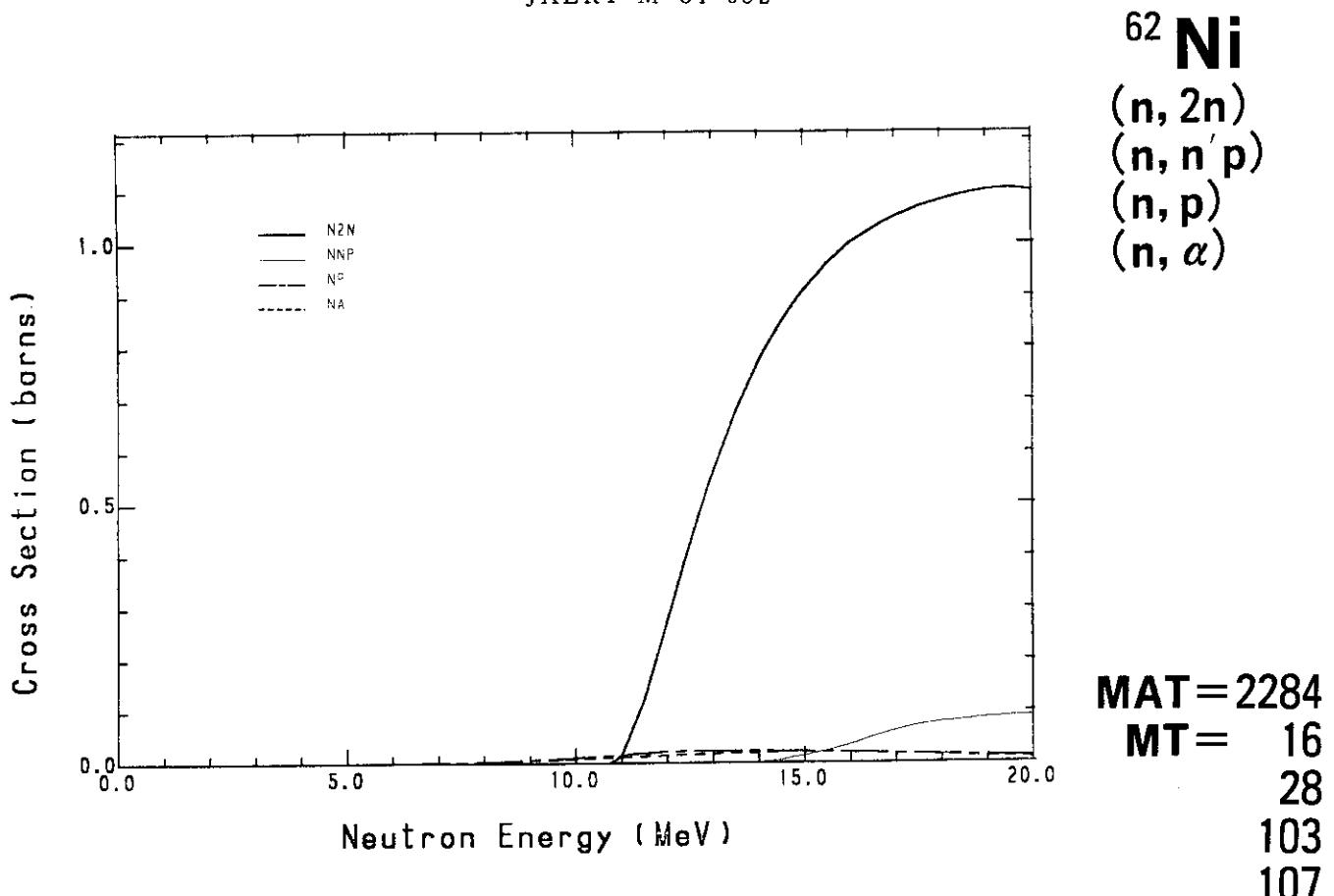
MAT=2284
MT= 102



^{62}Ni
(n, n')

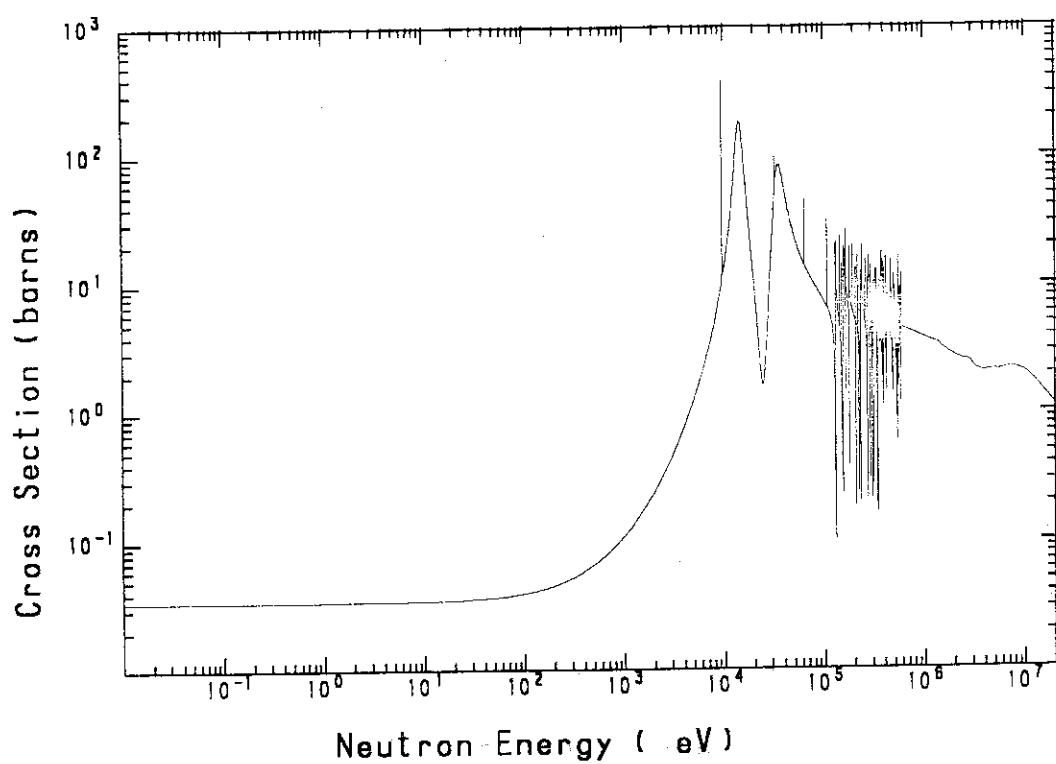
MAT=2284
MT= 4
51~55





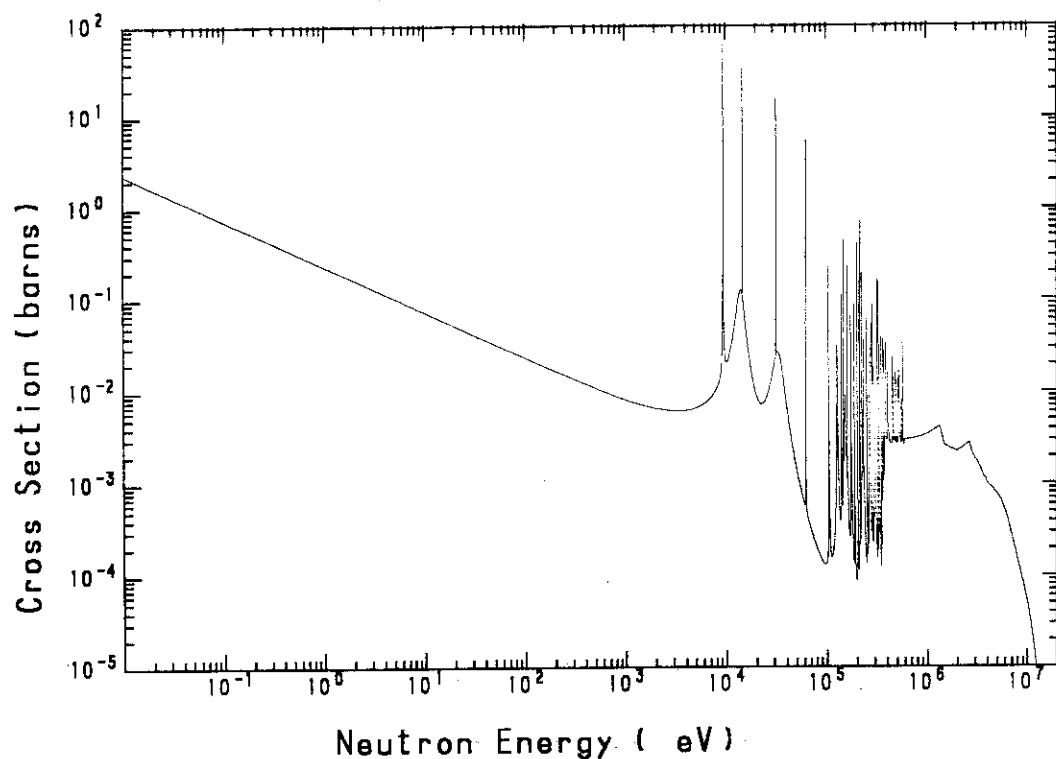
^{64}Ni
(n, n)

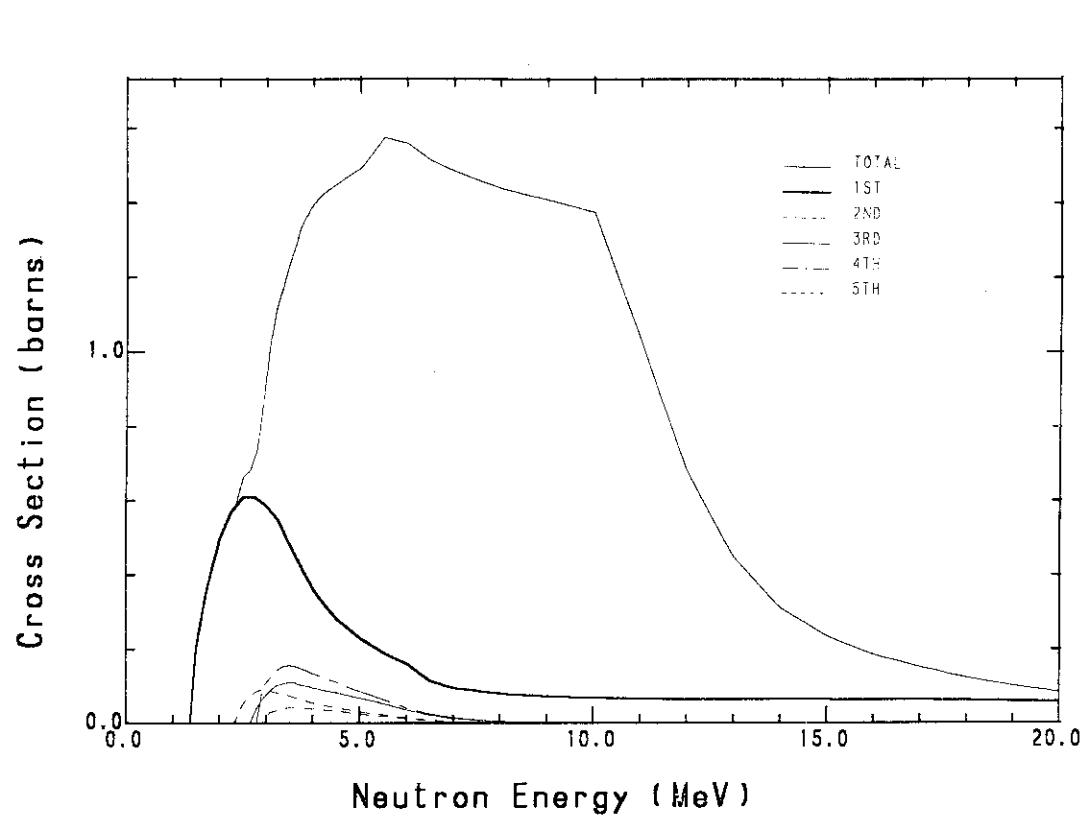
MAT=2285
MT= 2



^{64}Ni
(n, γ)

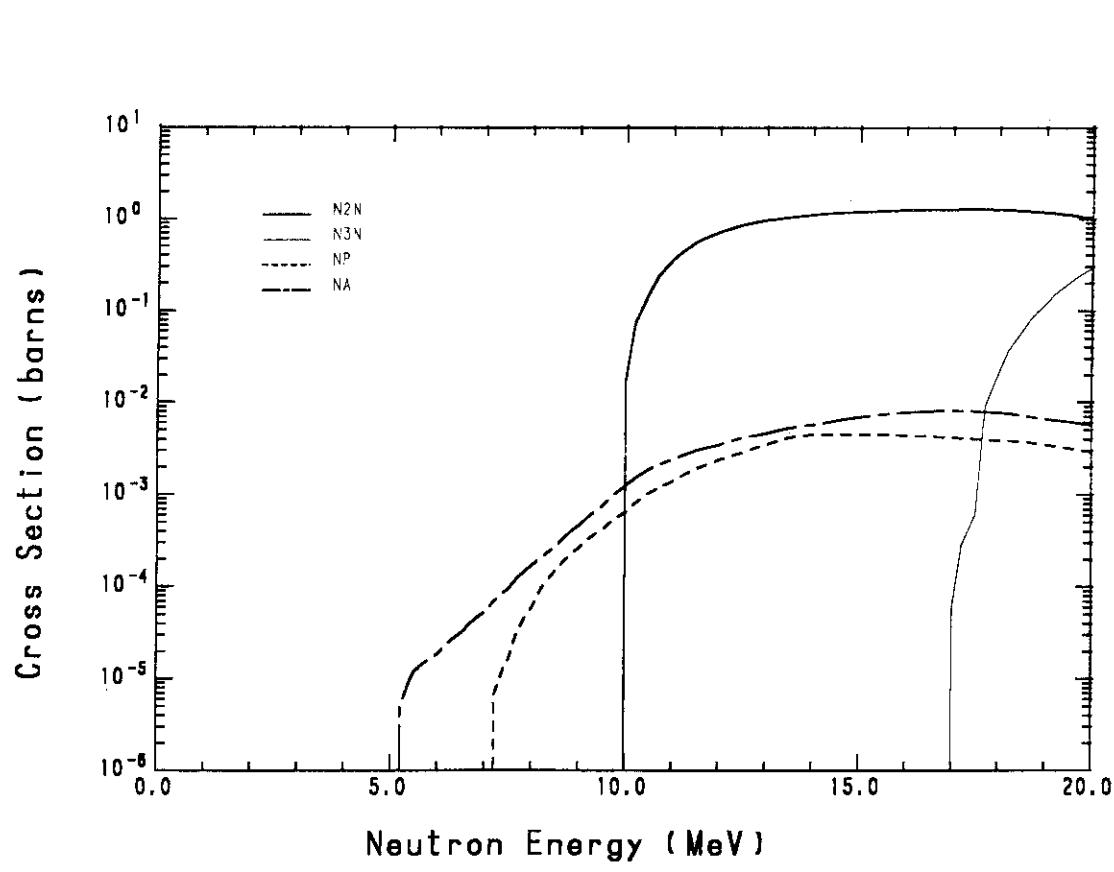
MAT=2285
MT= 102





^{64}Ni
 (n, n')

MAT=2285
MT= 4
51~55

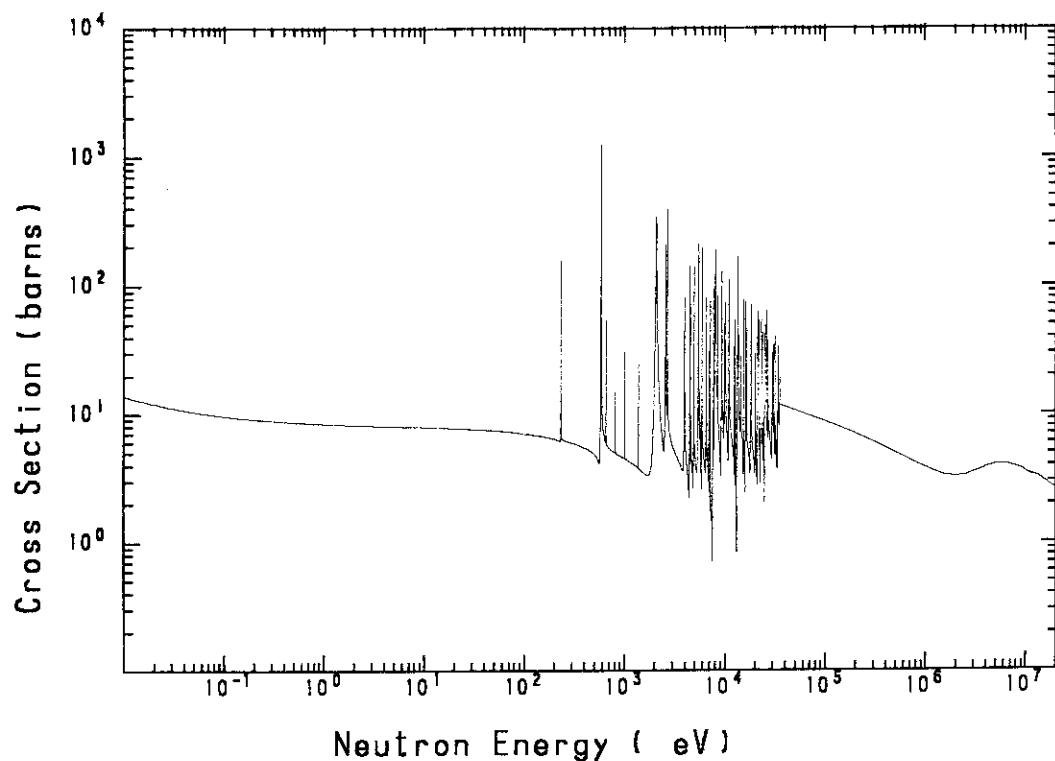


^{64}Ni
 $(n, 2n)$
 $(n, 3n)$
 (n, p)
 (n, α)

MAT=2285
MT= 16
17
103
107

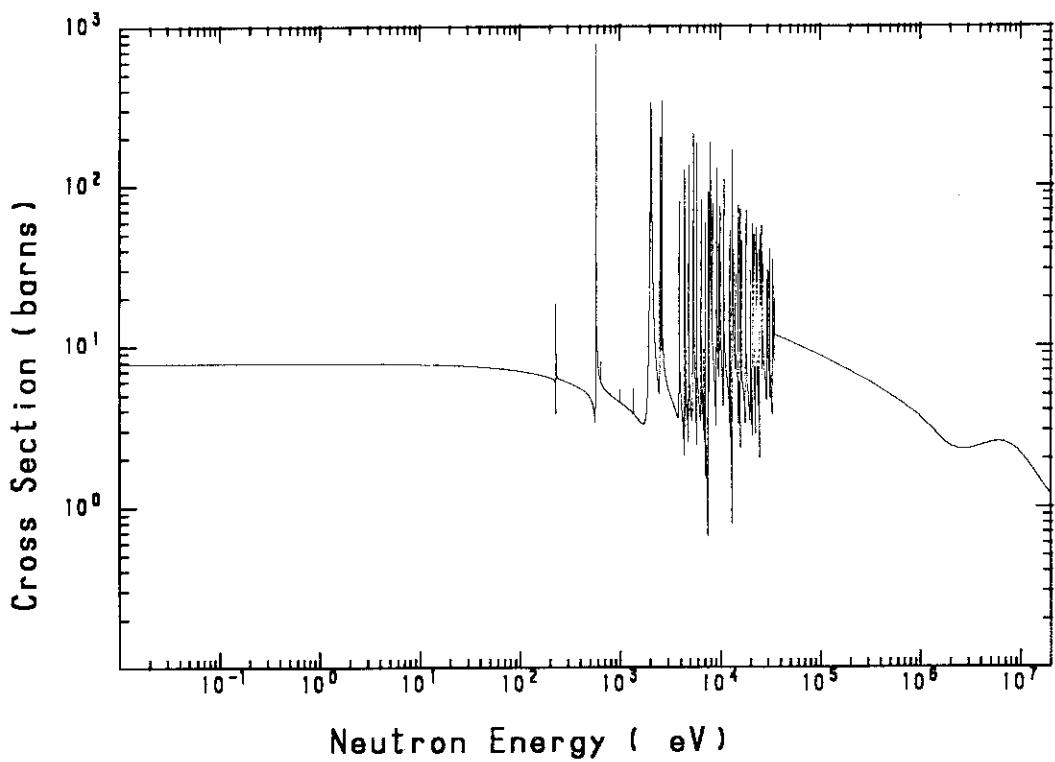
^{29}Cu
TOTAL

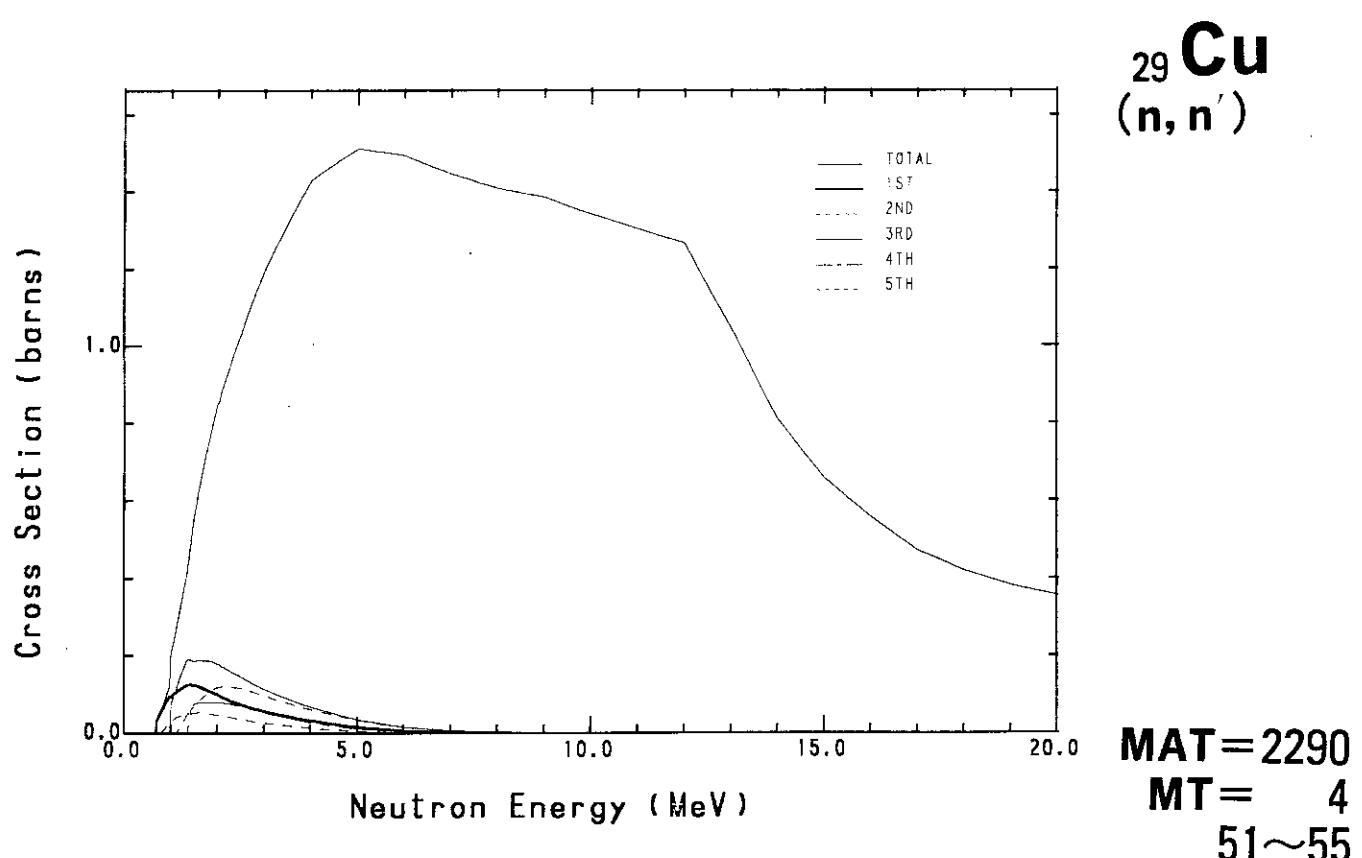
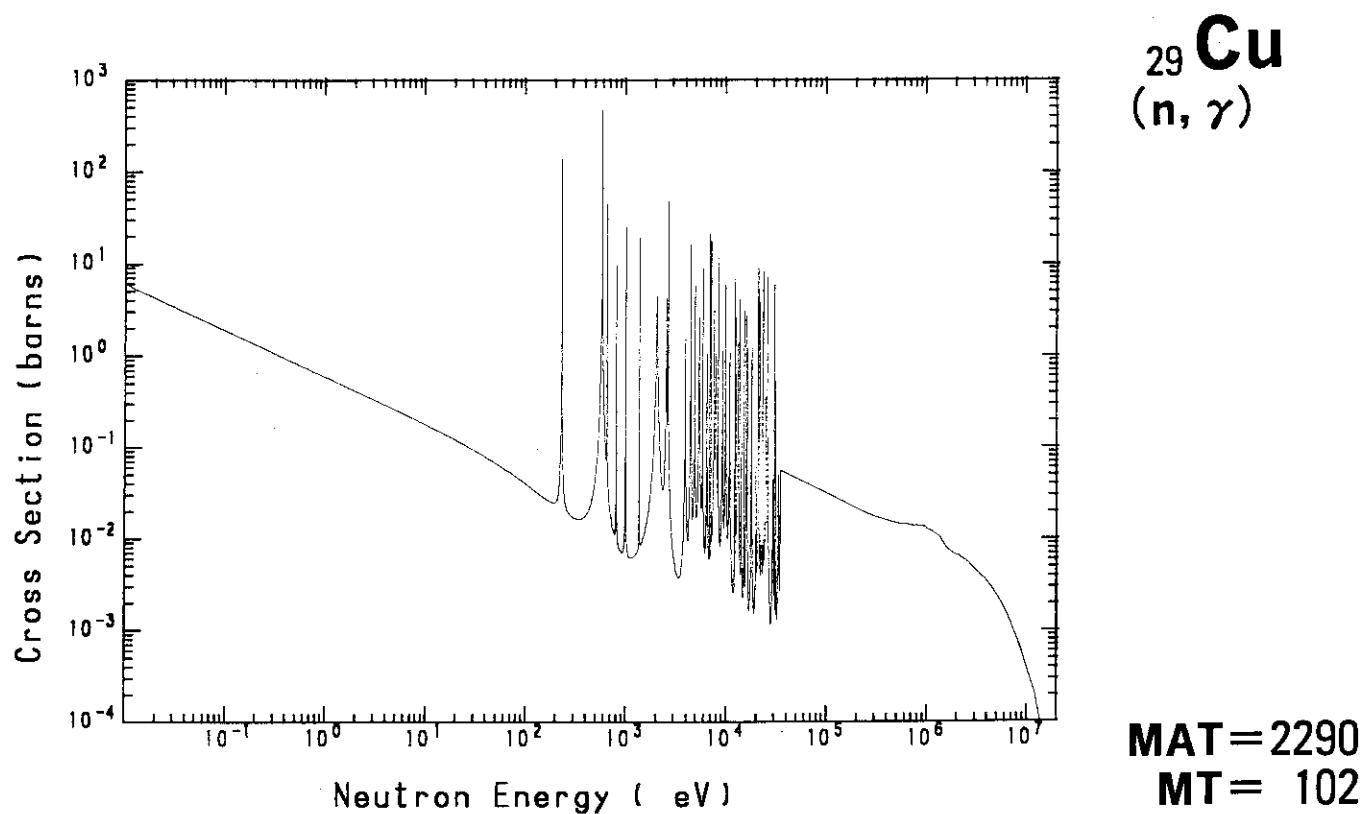
MAT=2290
MT= 1



^{29}Cu
(n, n)

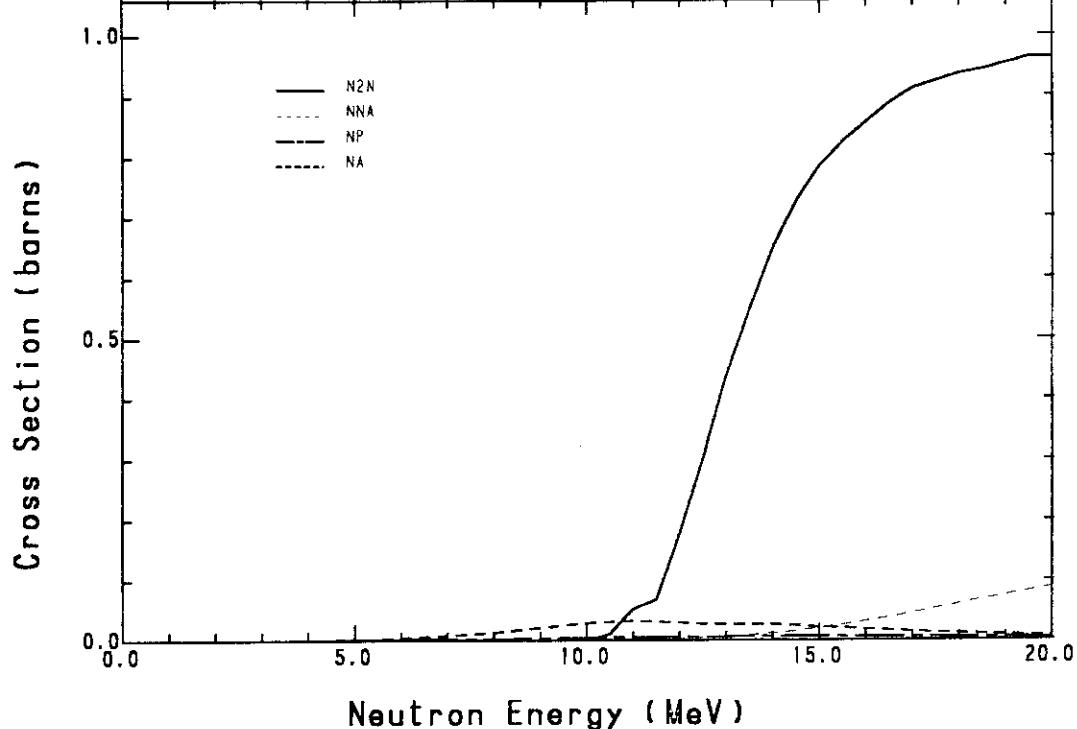
MAT=2290
MT= 2





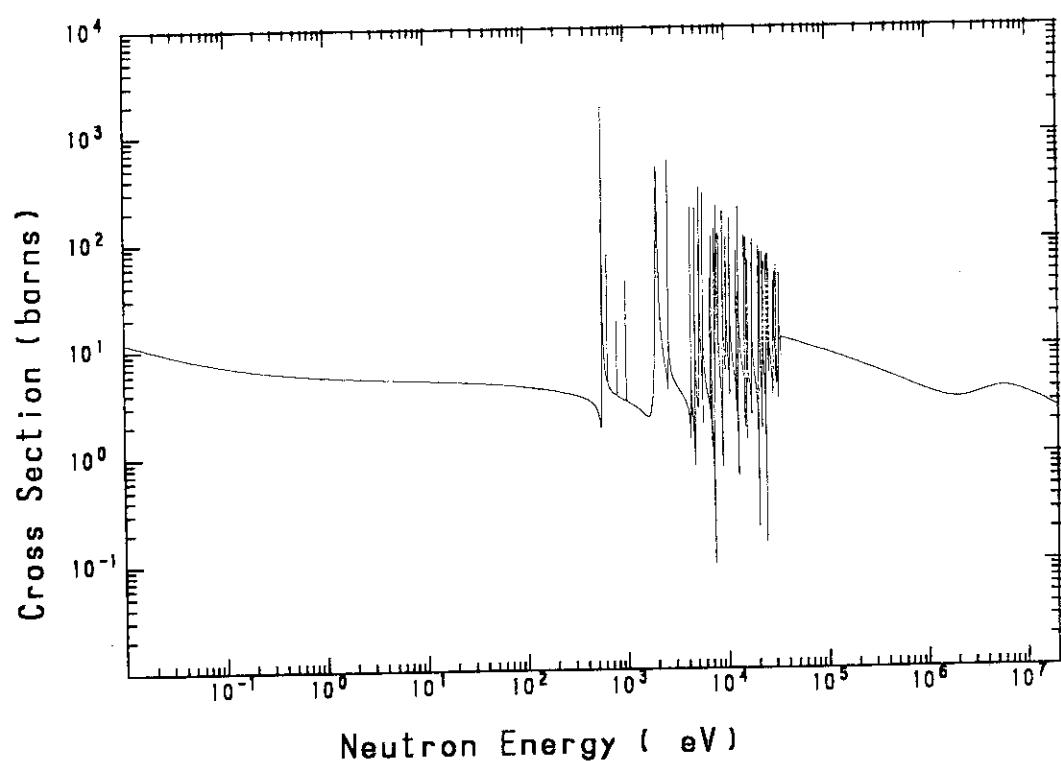
^{29}Cu
 $(n, 2n)$
 $(n, n' \alpha)$
 (n, p)
 (n, α)

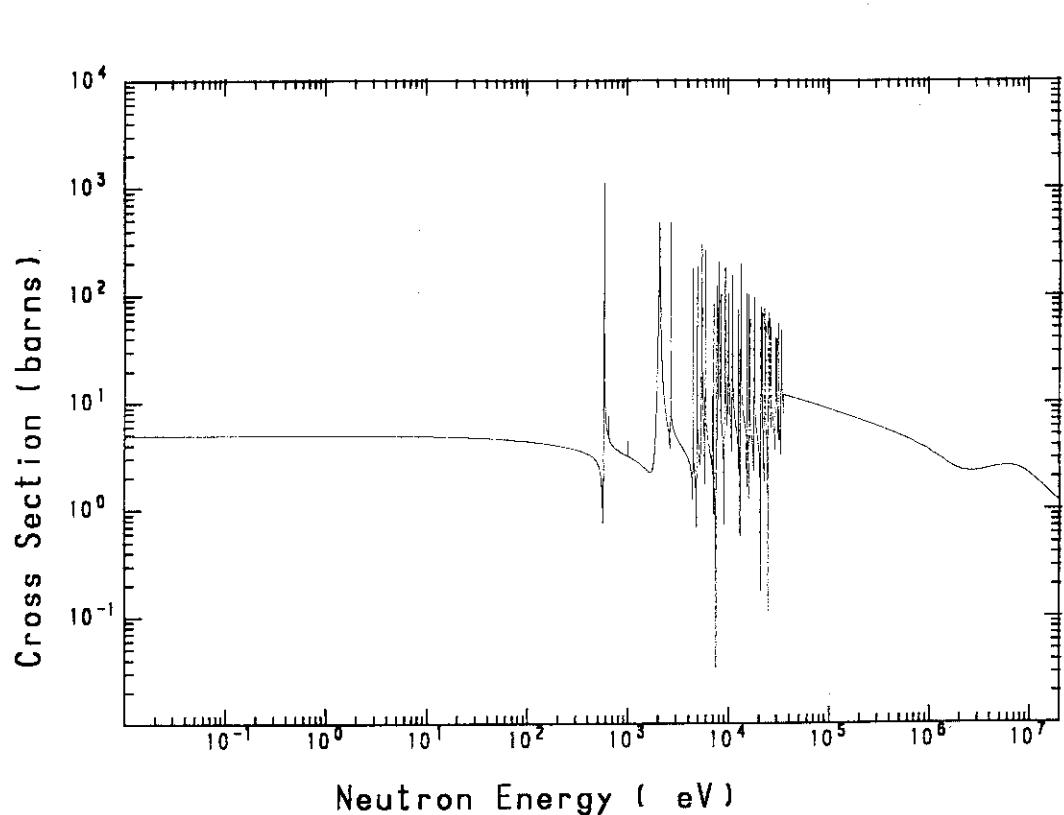
MAT = 2290
MT = 16
22
103
107



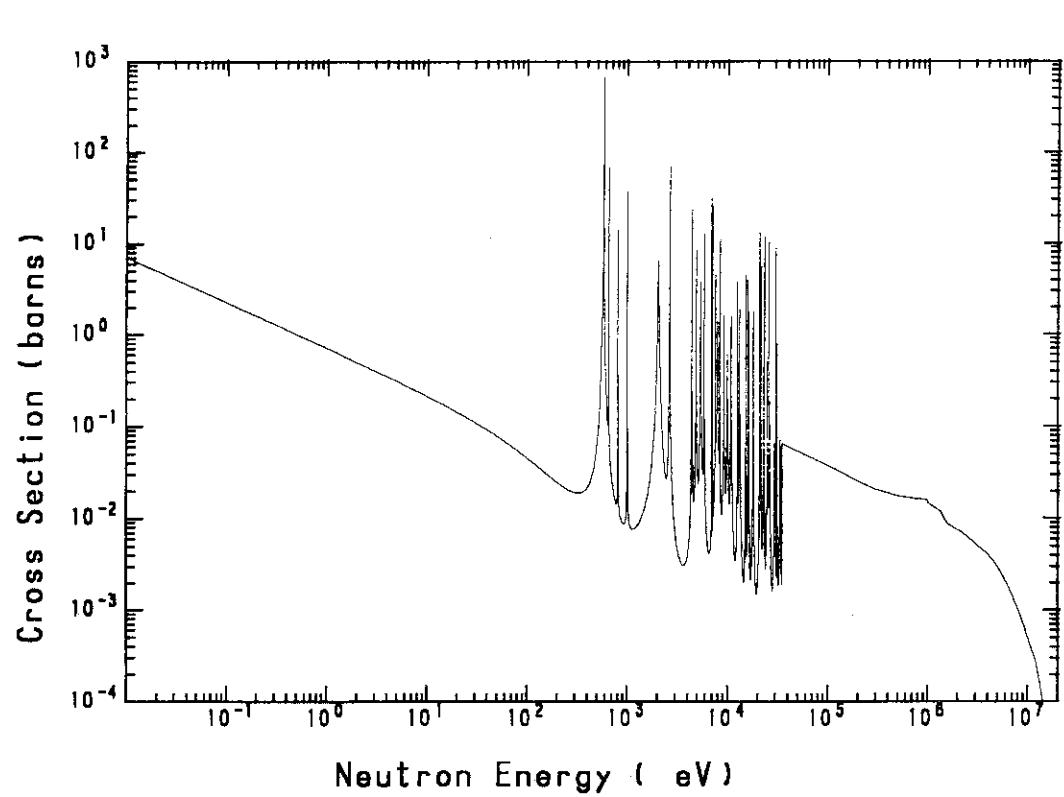
^{63}Cu
TOTAL

MAT = 2291
MT = 1





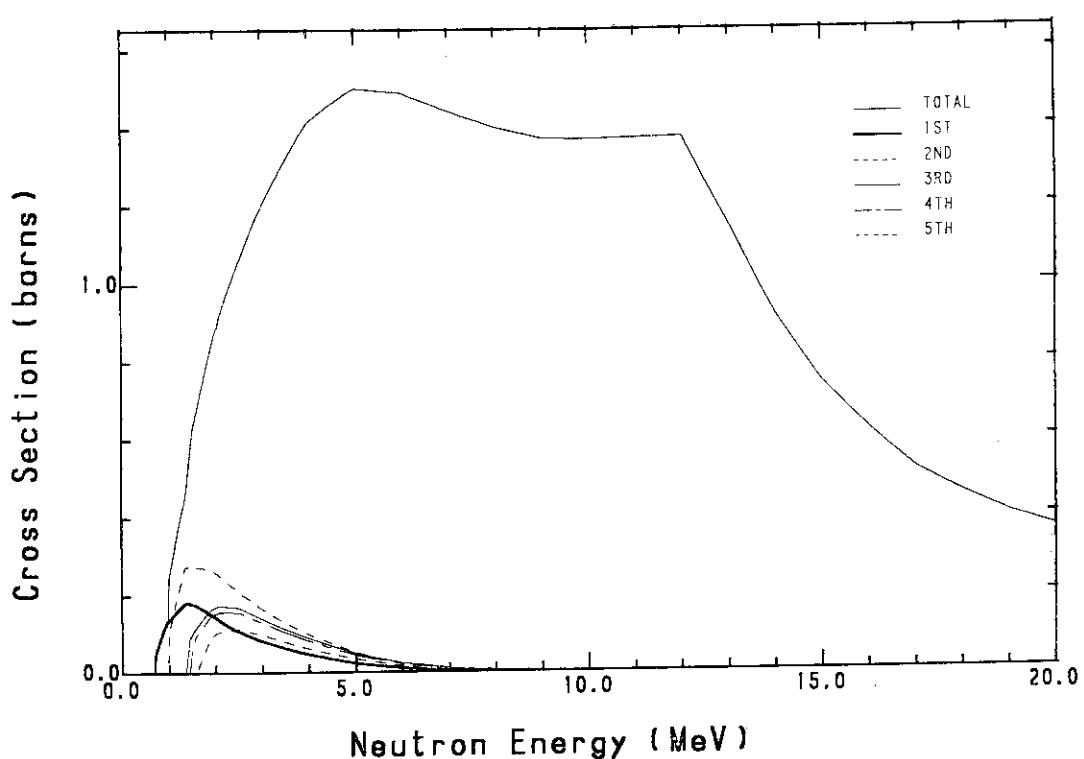
MAT=2291
MT= 2



MAT=2291
MT= 102

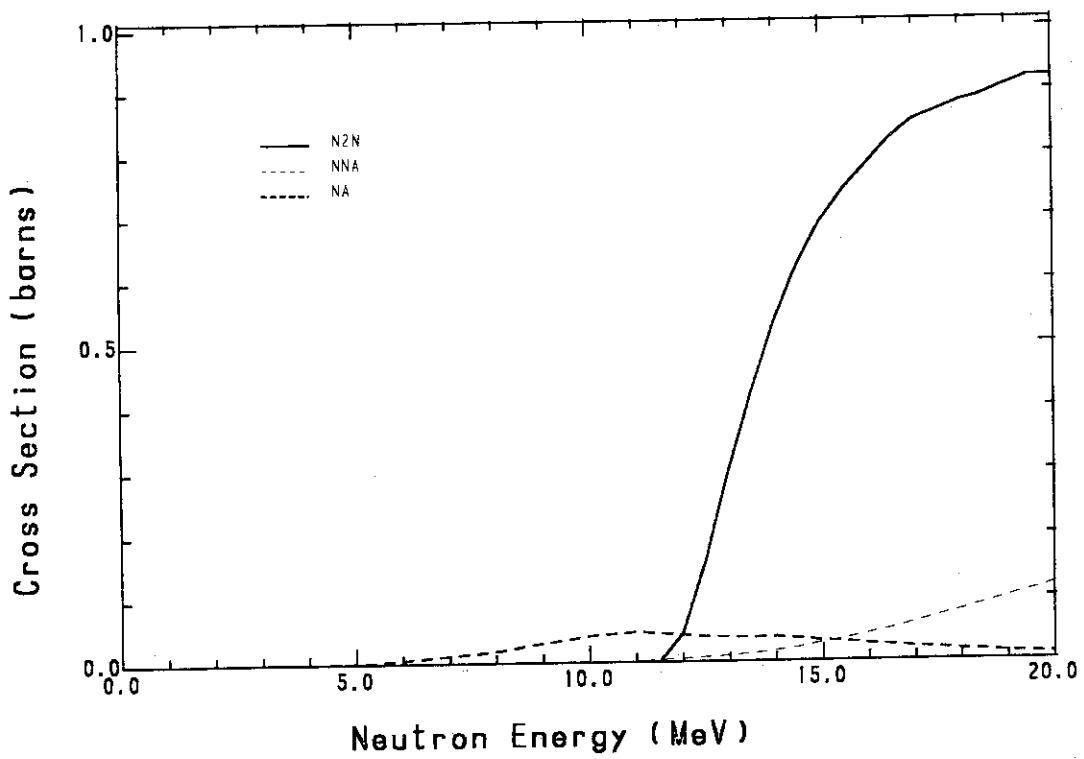
^{63}Cu
 (n, n')

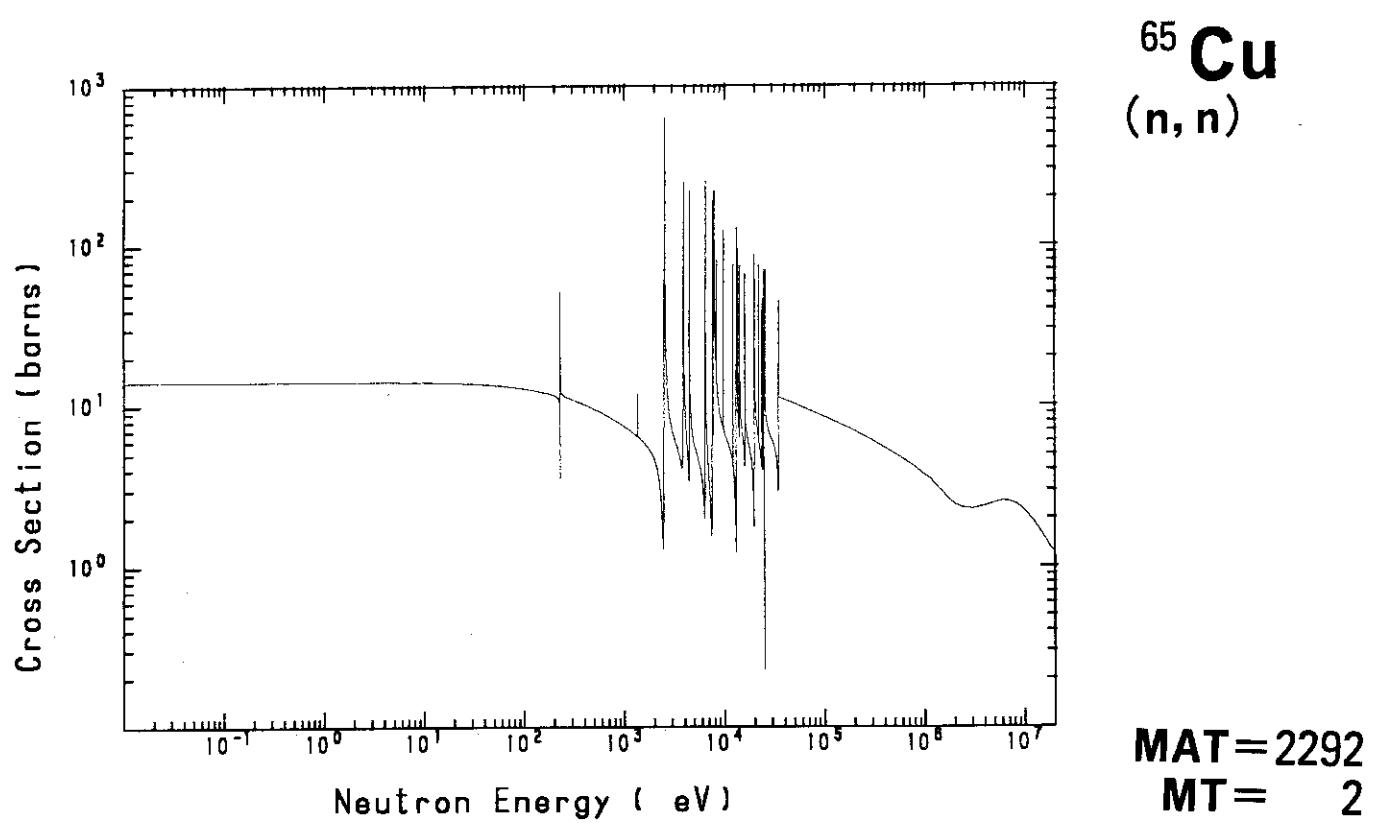
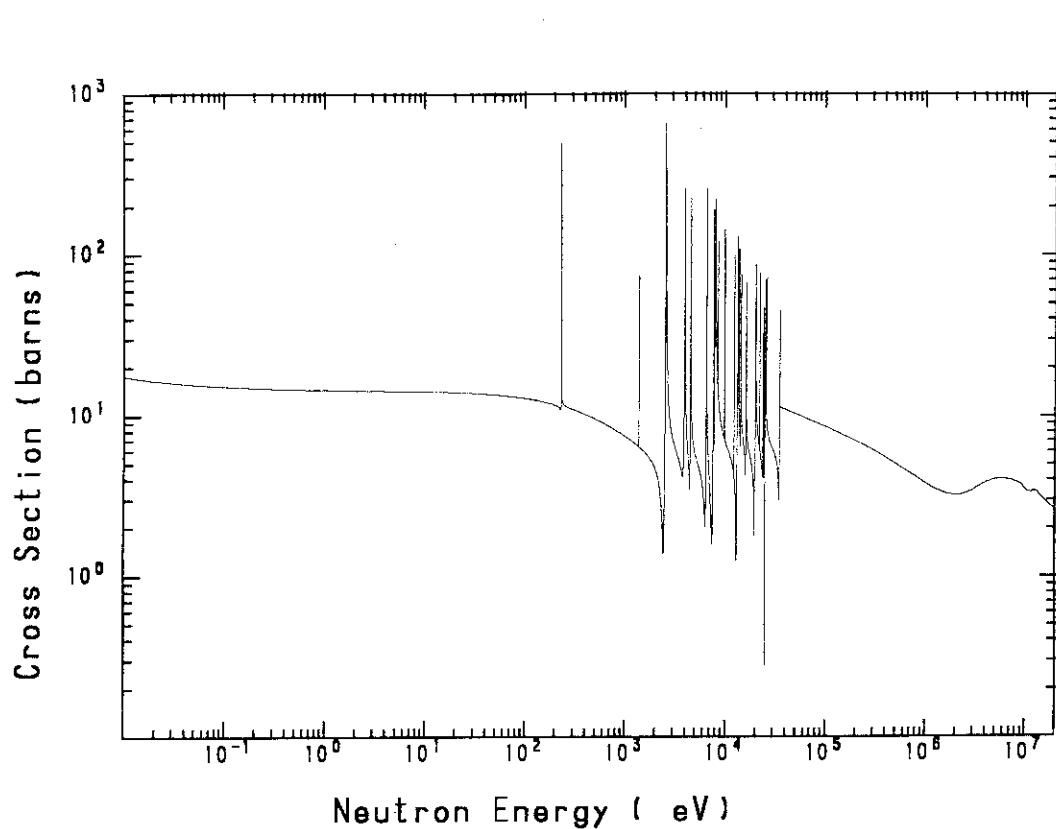
MAT=2291
MT= 4
 $51 \sim 55$



^{63}Cu
 $(n, 2n)$
 $(n, n' \alpha)$
 (n, α)

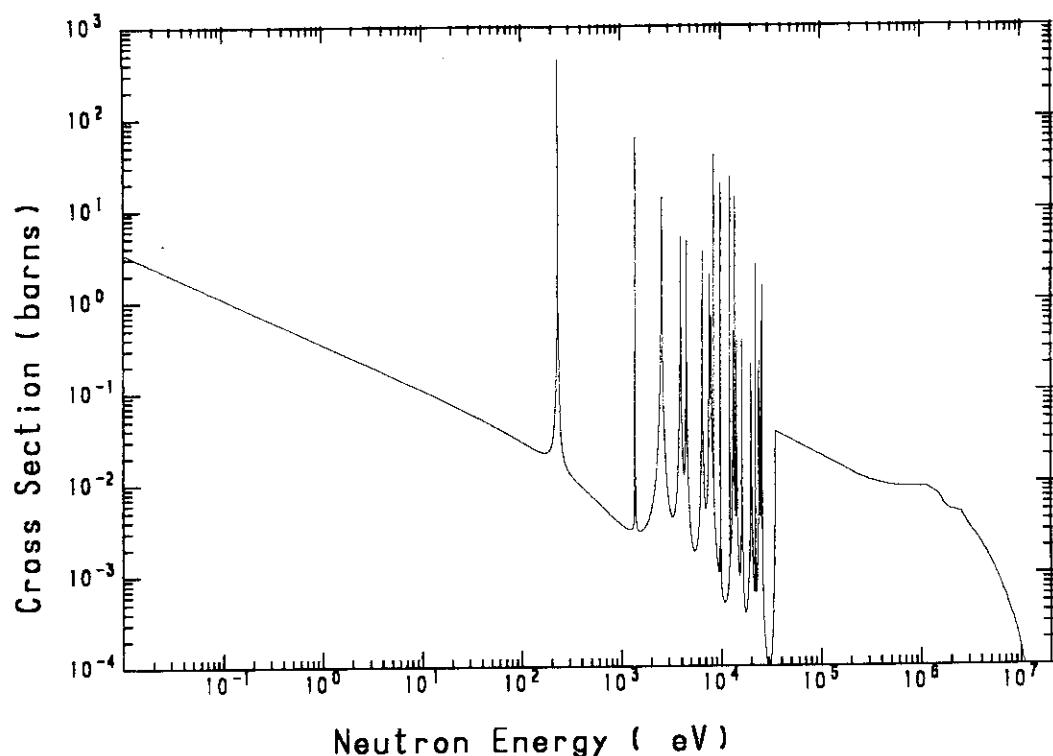
MAT=2291
MT= 16
 22
 107





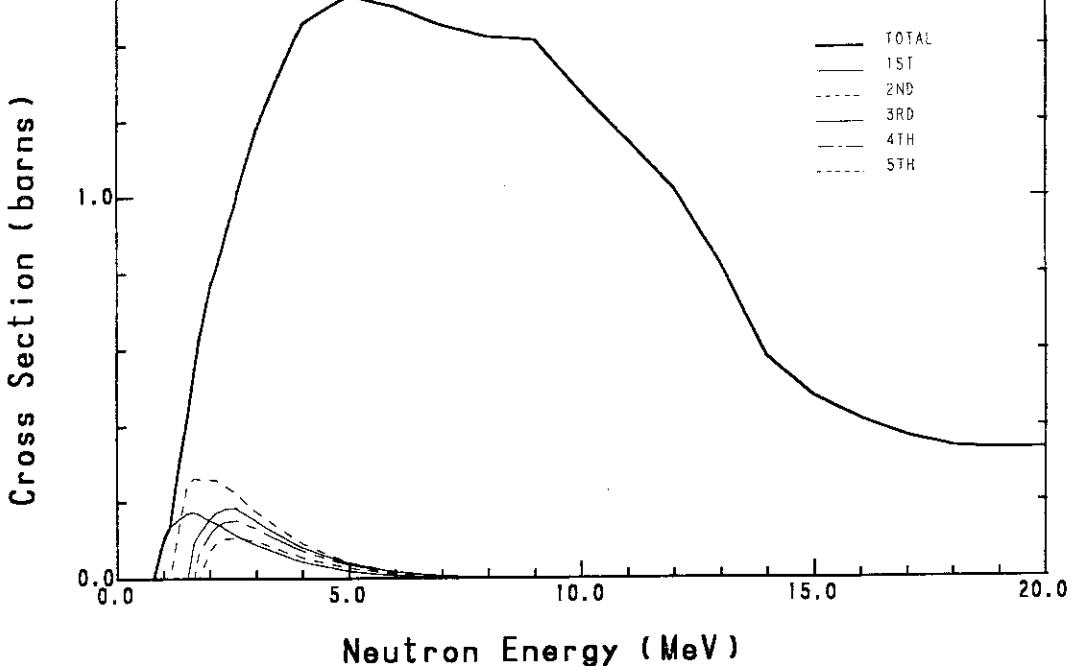
^{65}Cu
(n, γ)

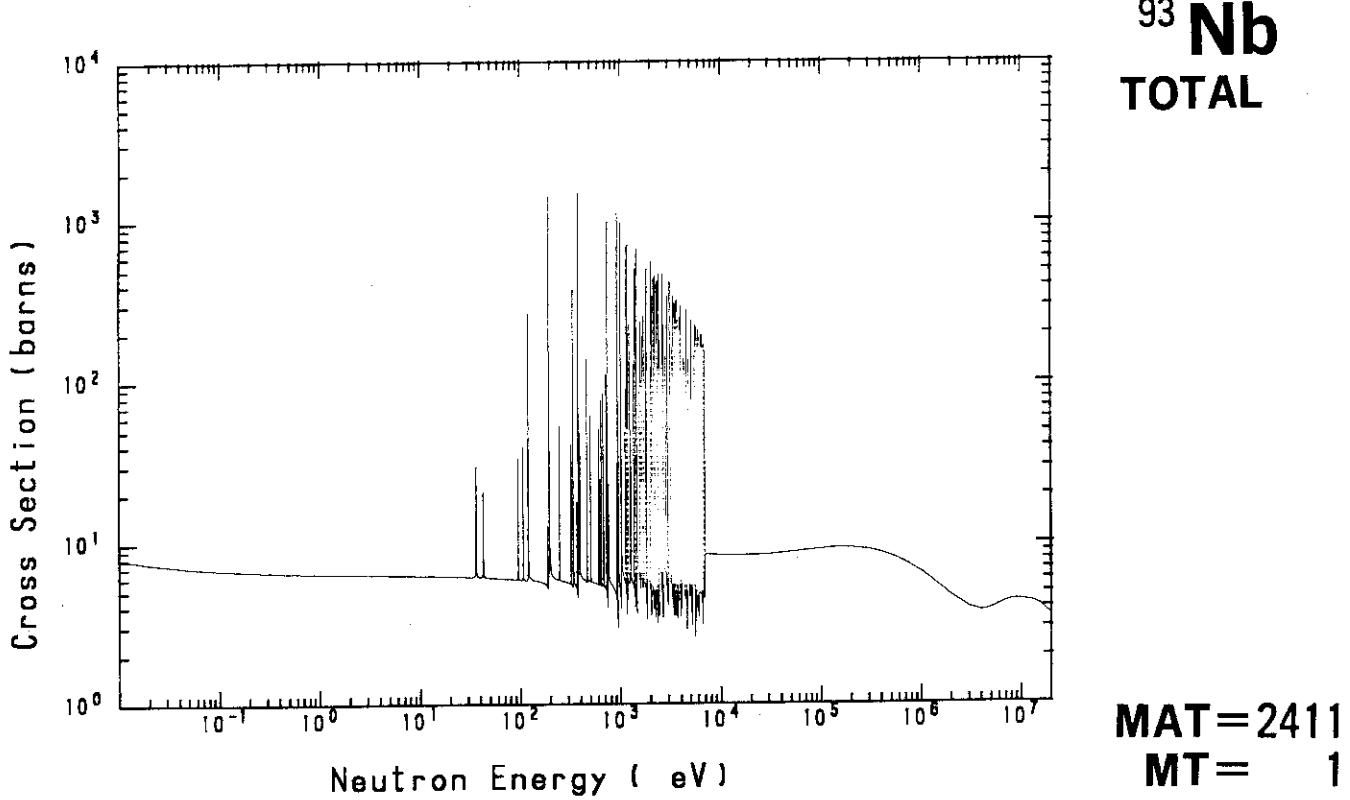
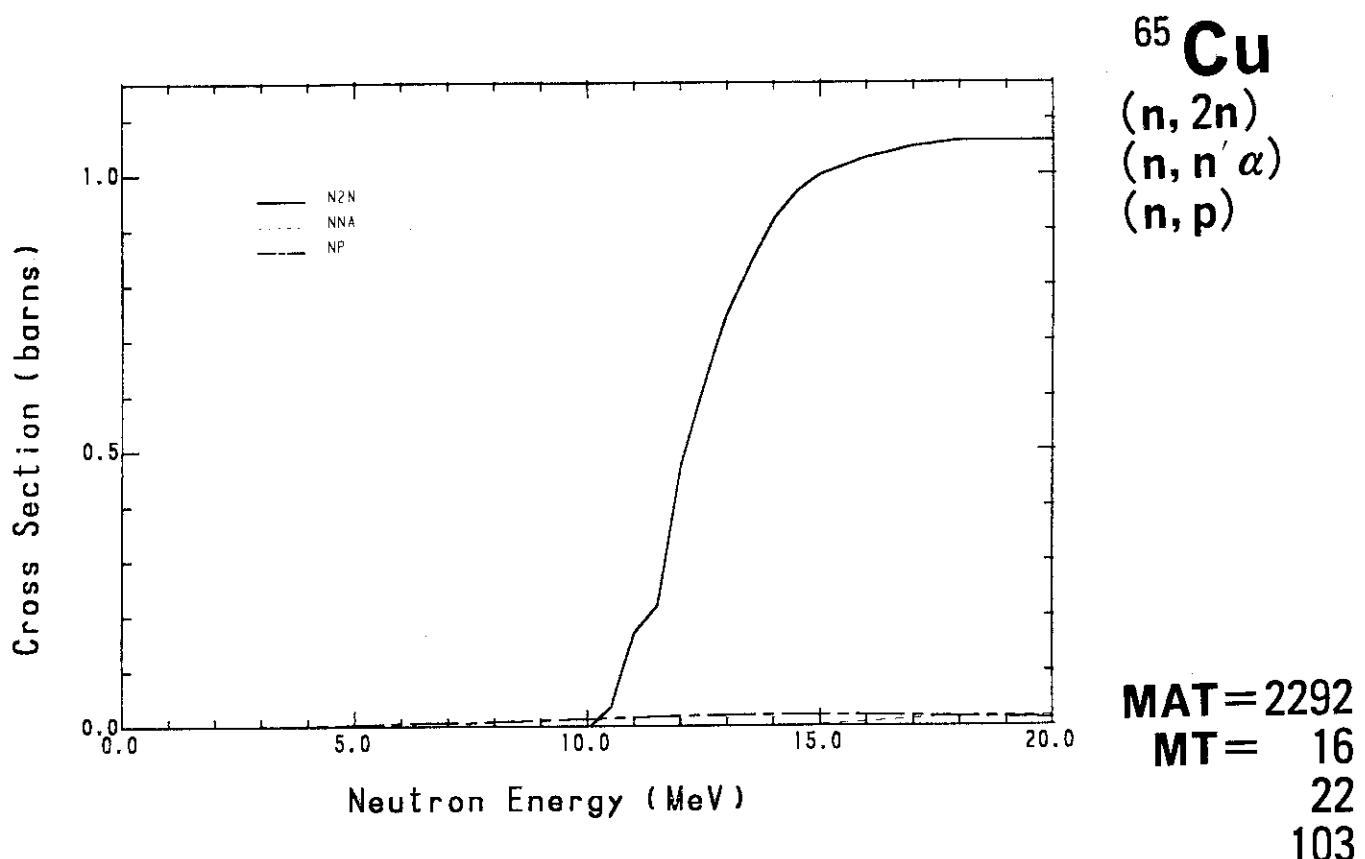
MAT=2292
MT = 102



^{65}Cu
(n, n')

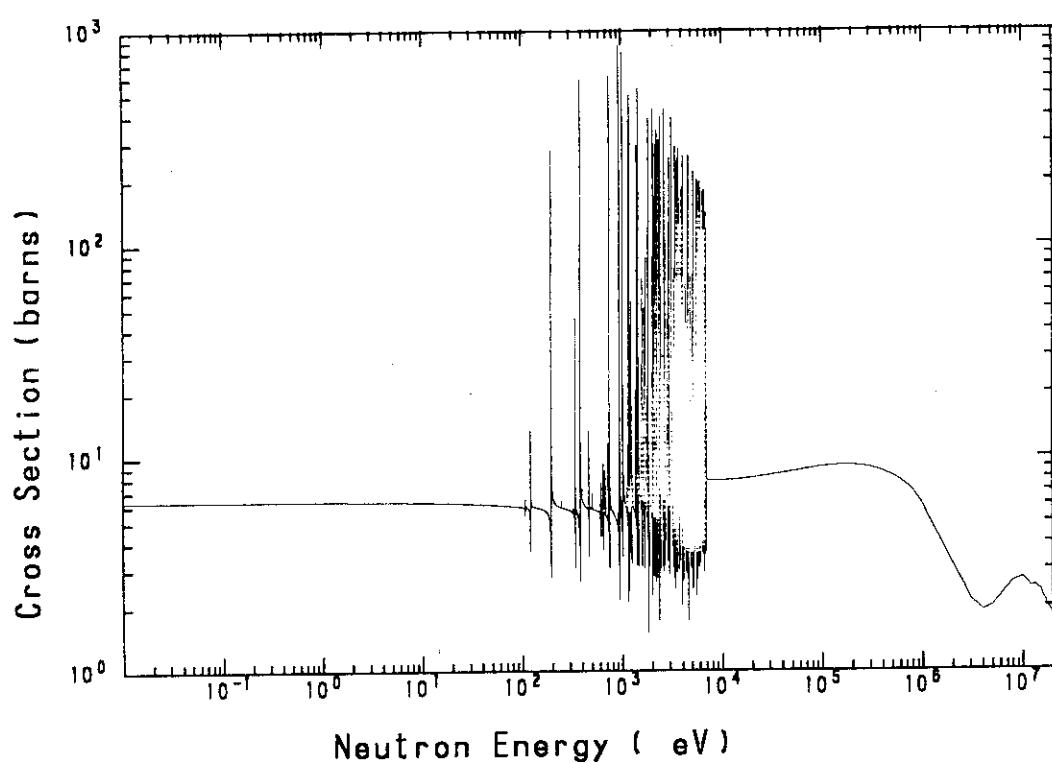
MAT=2292
MT = 4
51~55





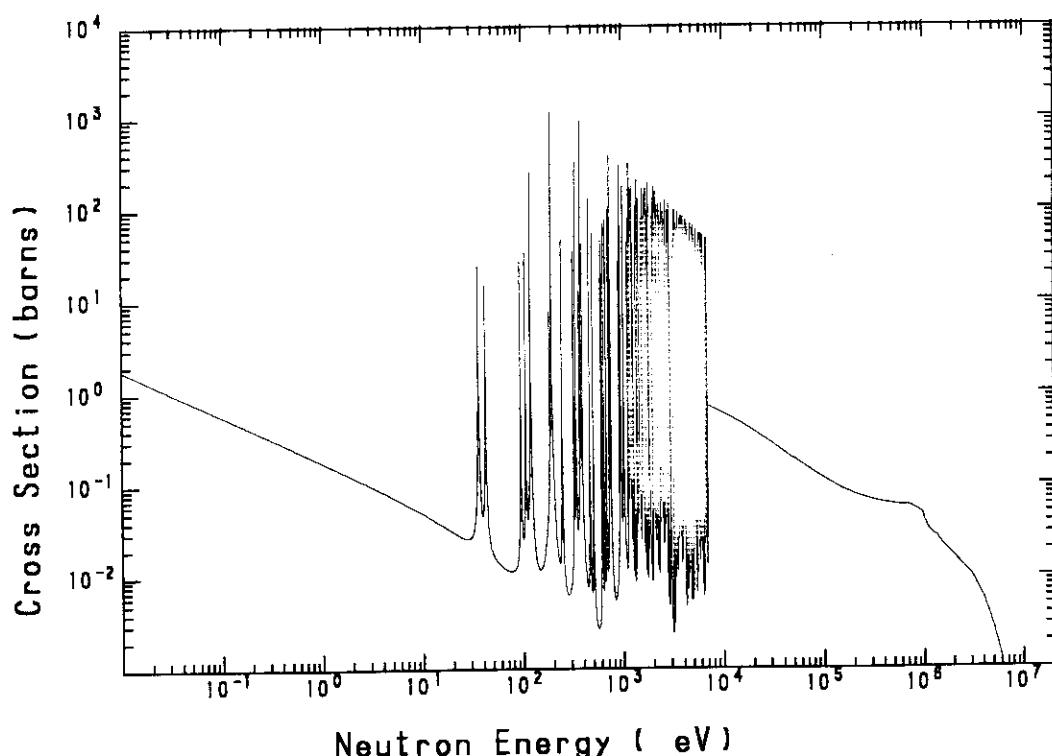
^{93}Nb
 (n, n)

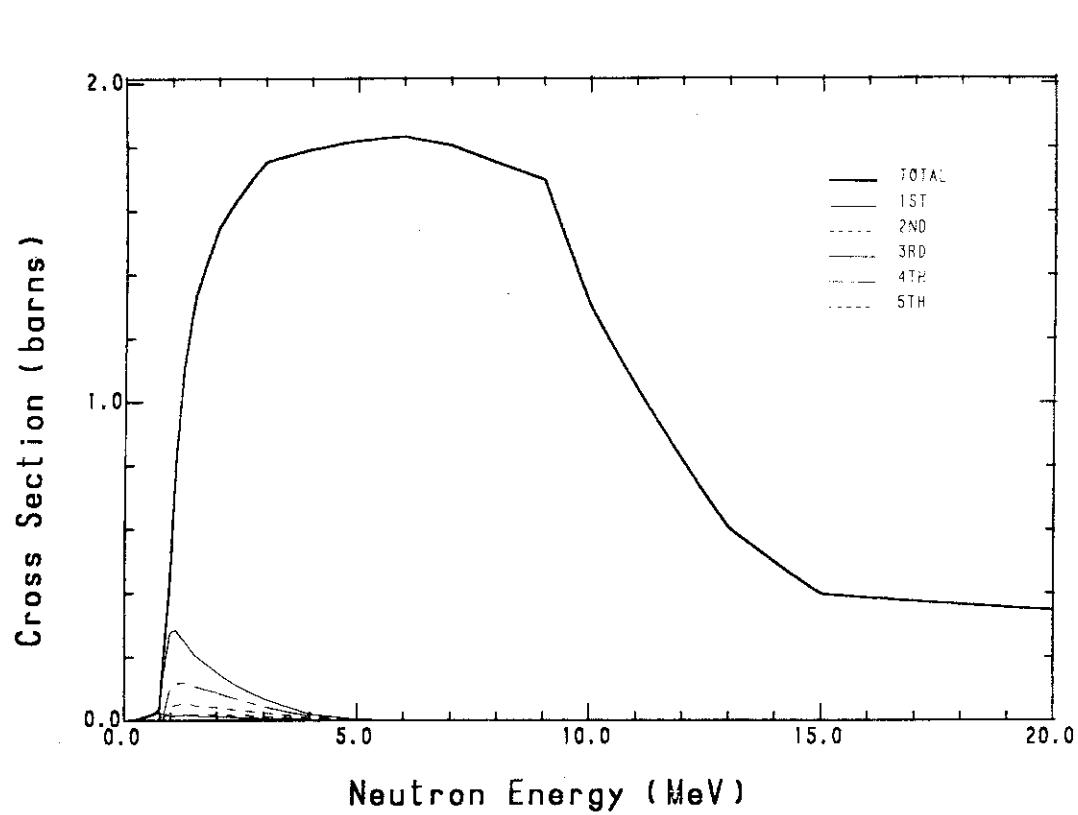
MAT=2411
MT = 2



^{93}Nb
 (n, γ)

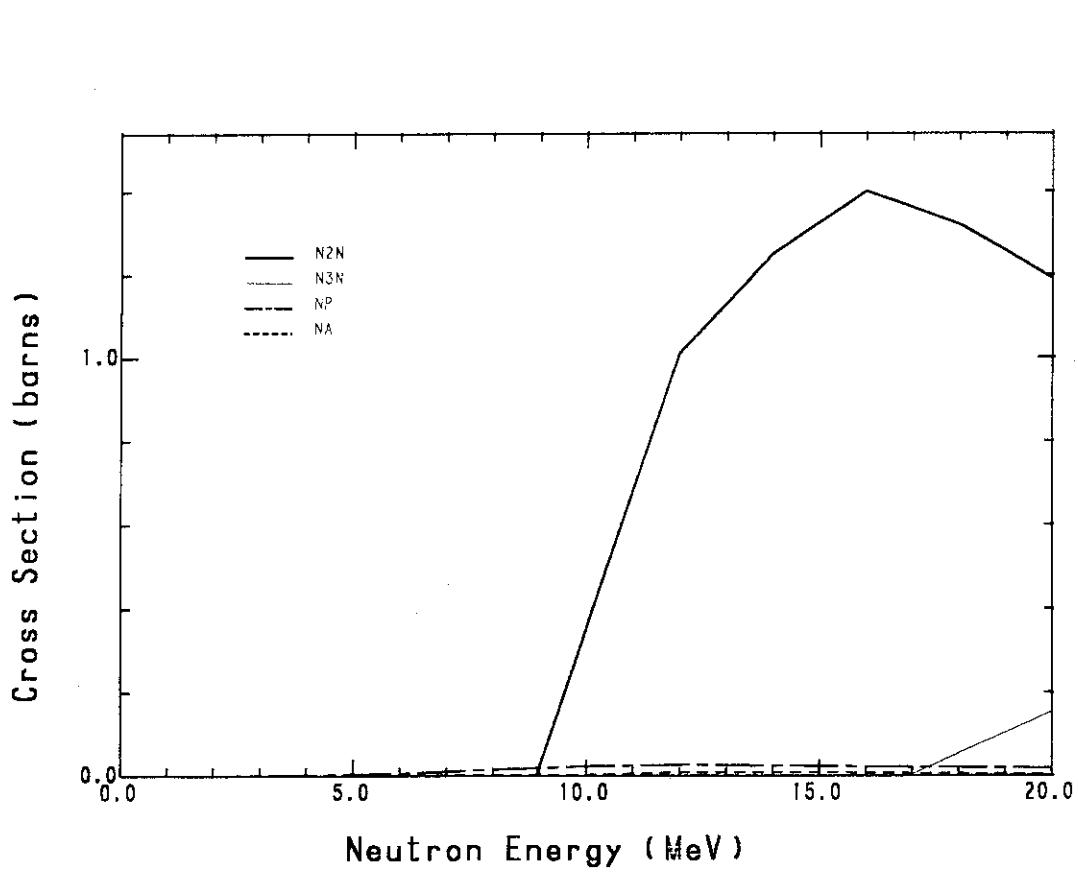
MAT=2411
MT = 102





^{93}Nb
(n, n')

MAT=2411
MT= 4
51~55

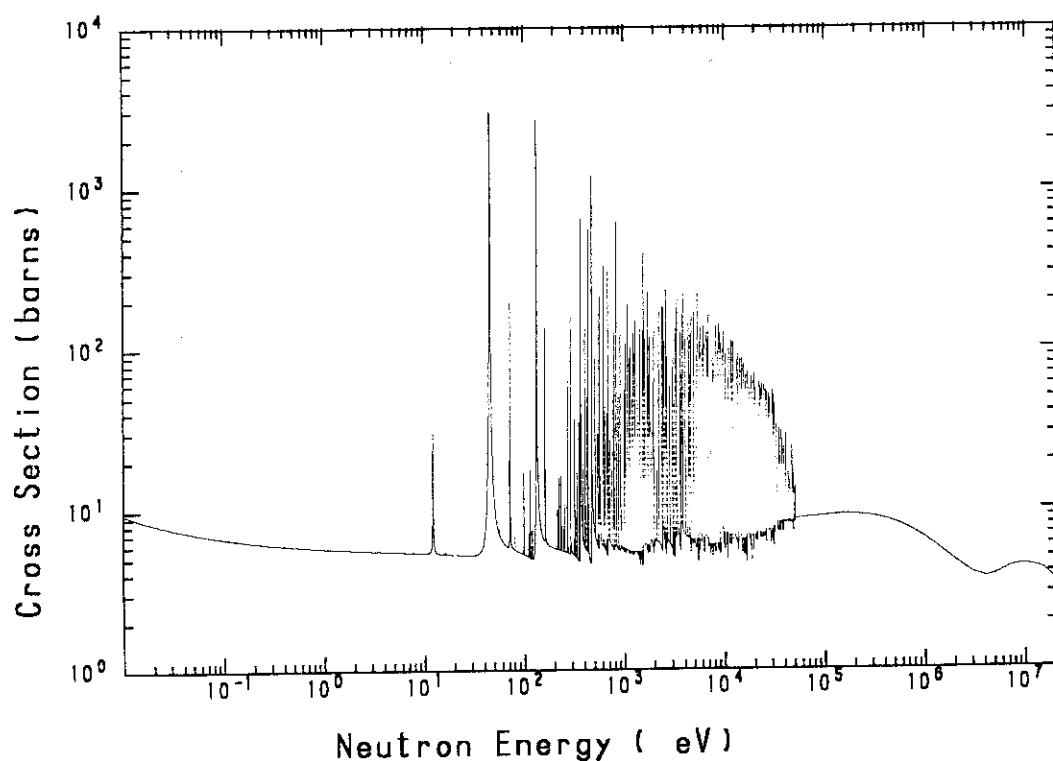


^{93}Nb
($n, 2n$)
($n, 3n$)
(n, p)
(n, α)

MAT=2411
MT= 16
17
103
107

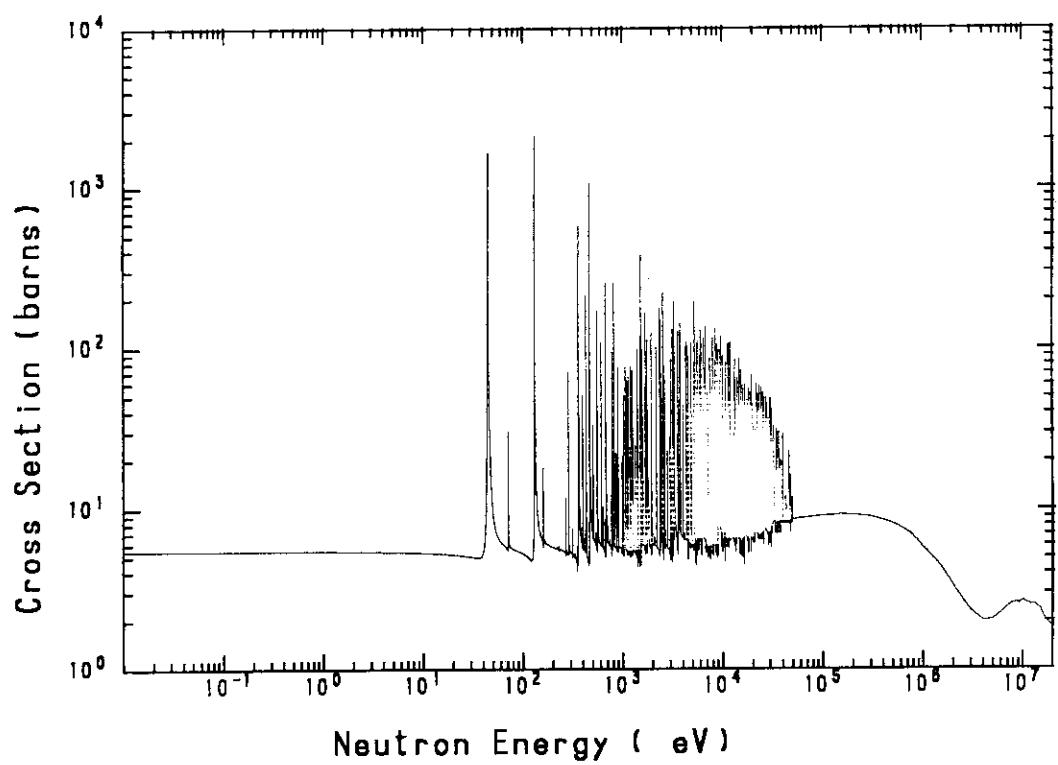
^{42}Mo
TOTAL

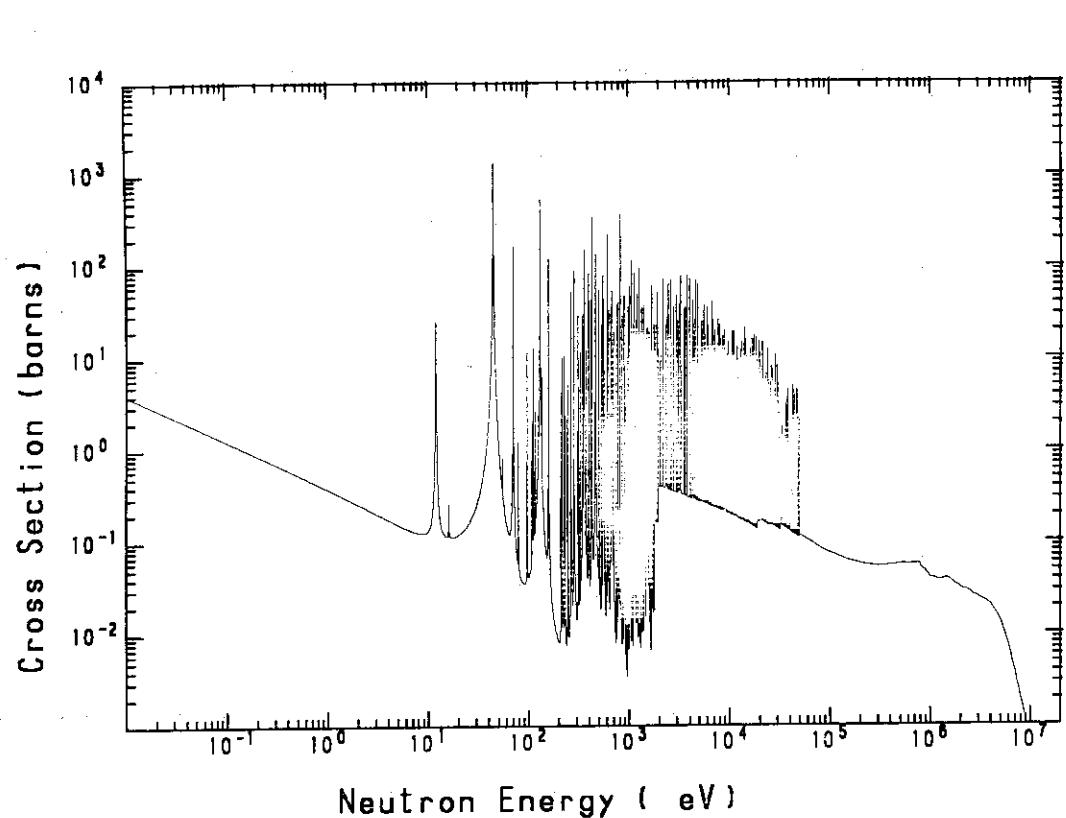
MAT=2420
MT= 1



^{42}Mo
(n, n)

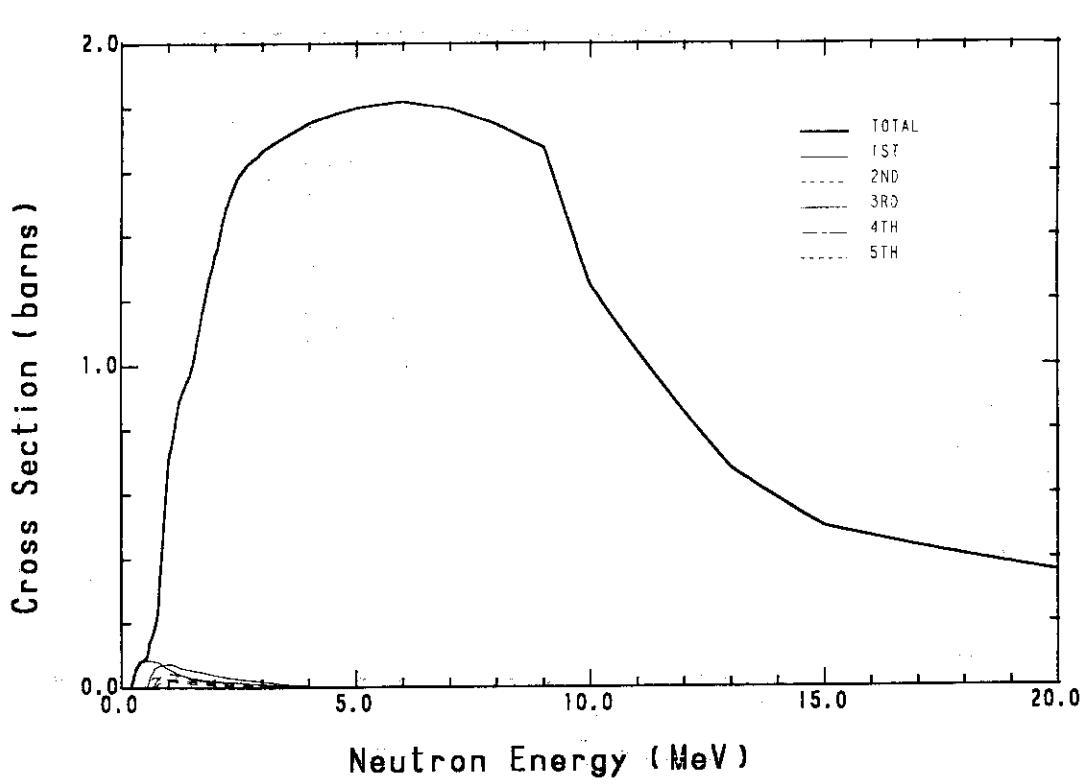
MAT=2420
MT= 2





^{42}Mo
(n, γ)

MAT=2420
MT= 102

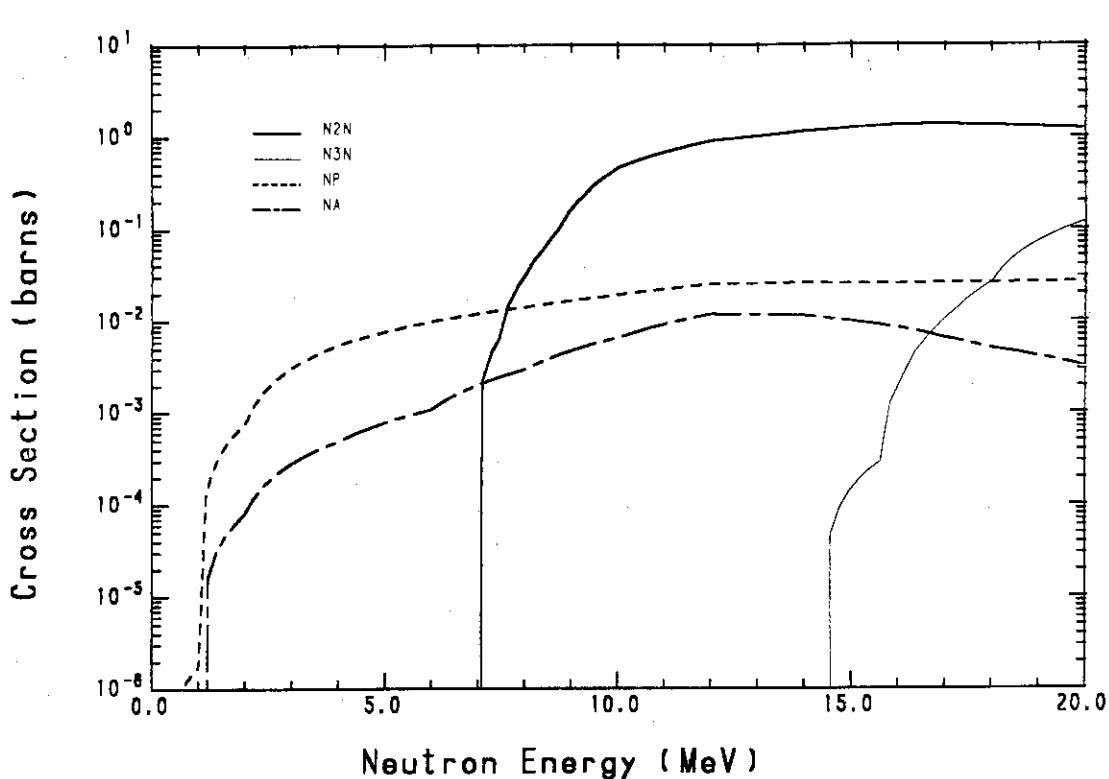


^{42}Mo
(n, n')

MAT=2420
MT= 4
51~55

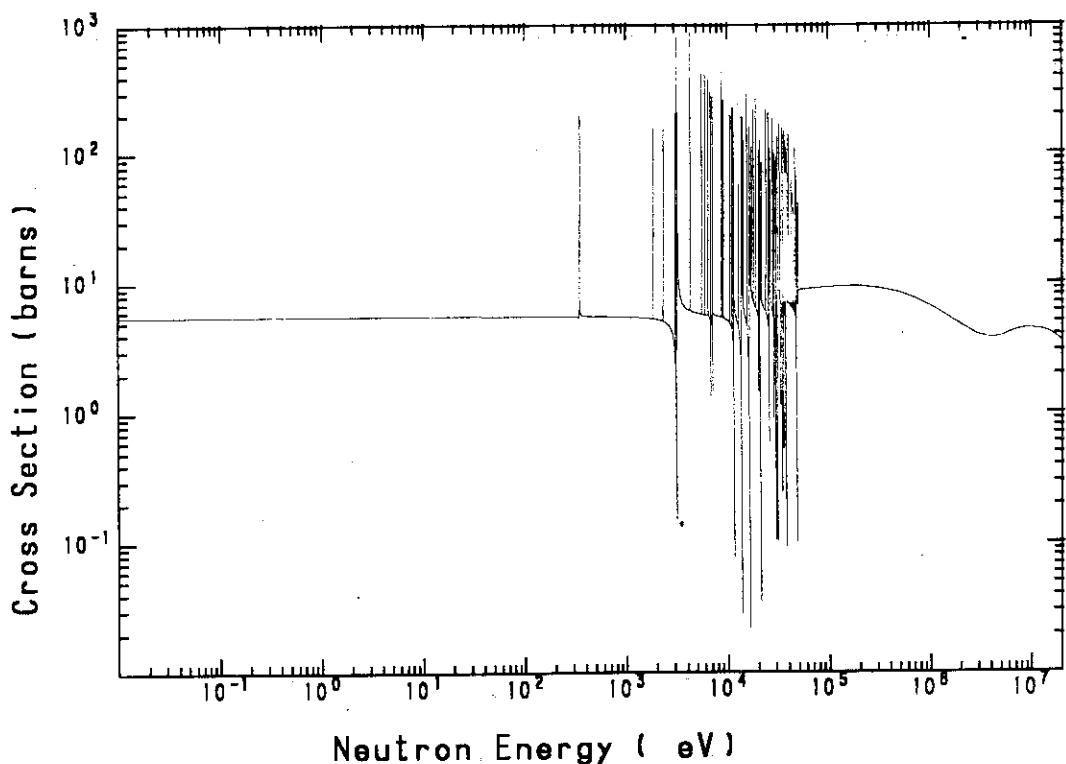
42 Mo
 $(n, 2n)$
 $(n, 3n)$
 (n, p)
 (n, α)

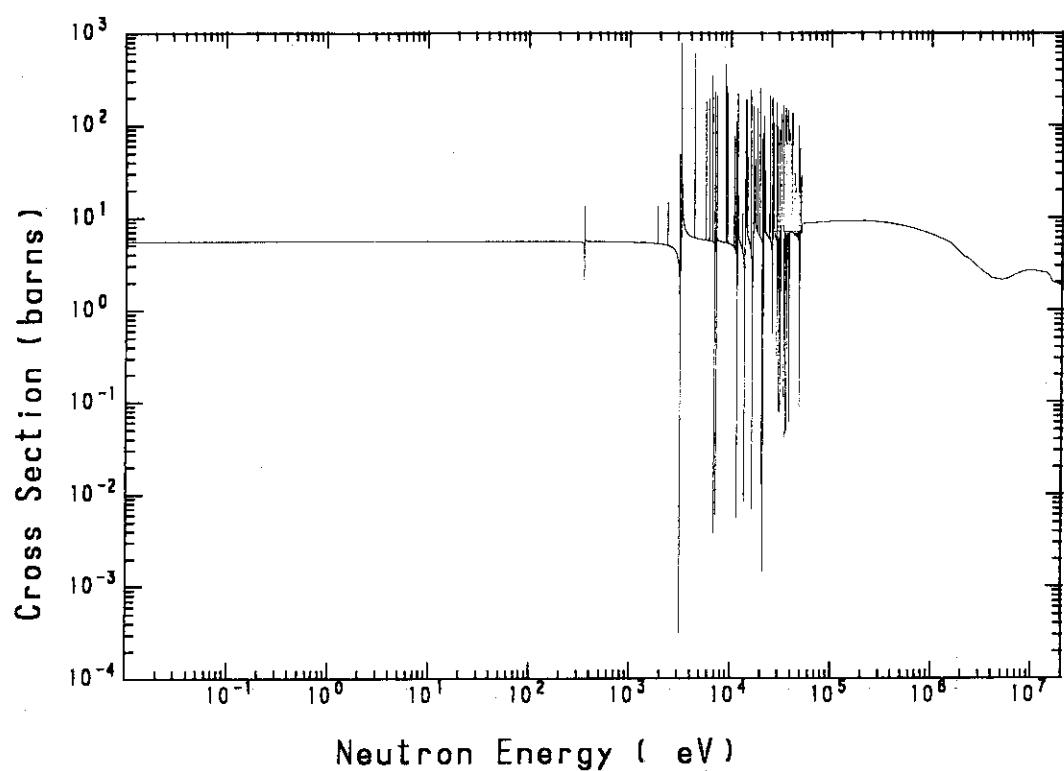
MAT=2420
MT = 16
17
103
107



92 Mo
TOTAL

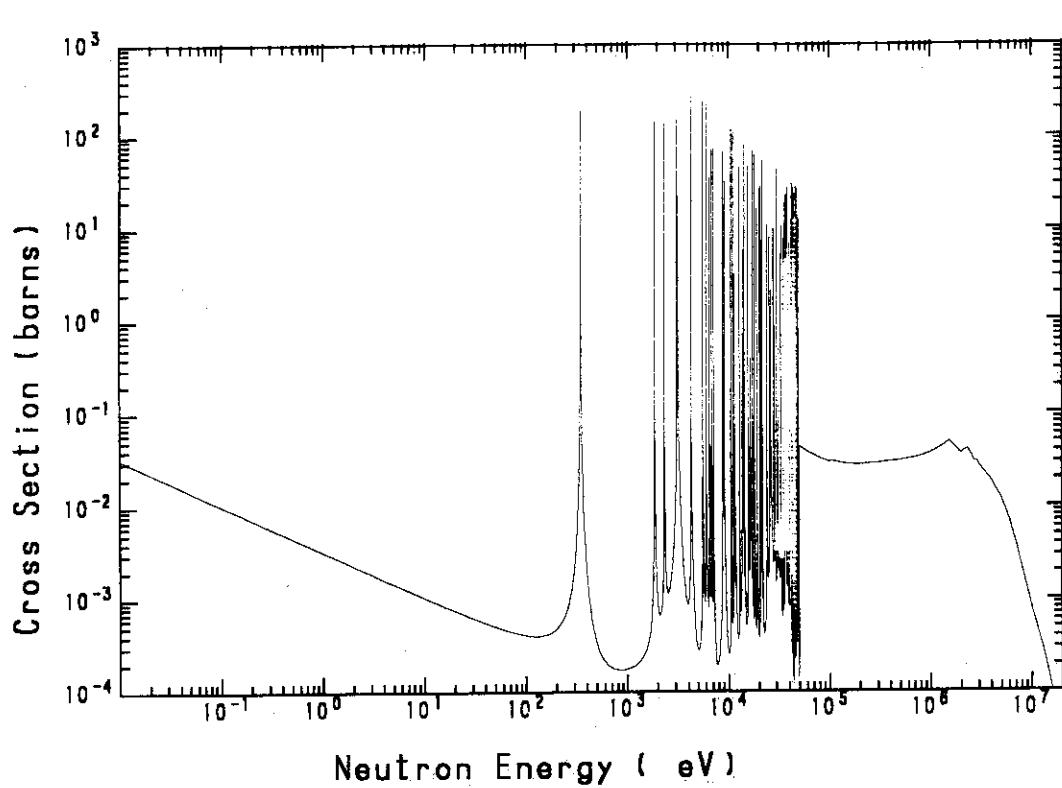
MAT=2421
MT = 1





^{92}Mo
(n, n)

MAT=2421
MT= 2

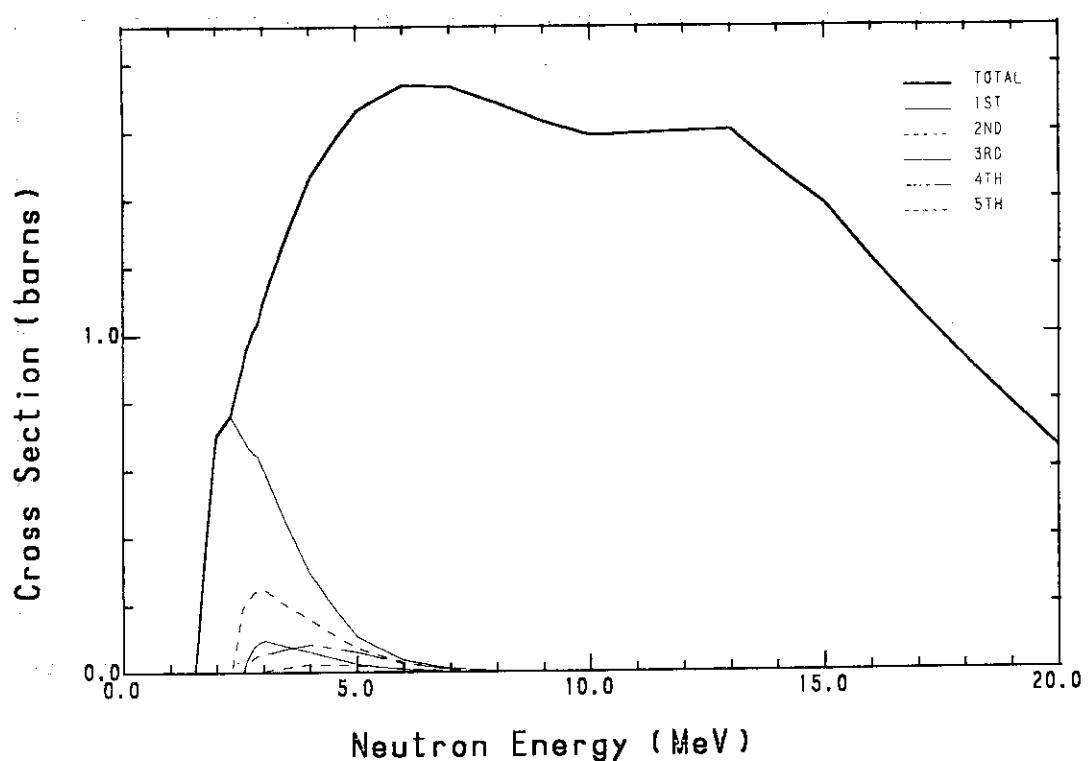


^{92}Mo
(n, γ)

MAT=2421
MT= 102

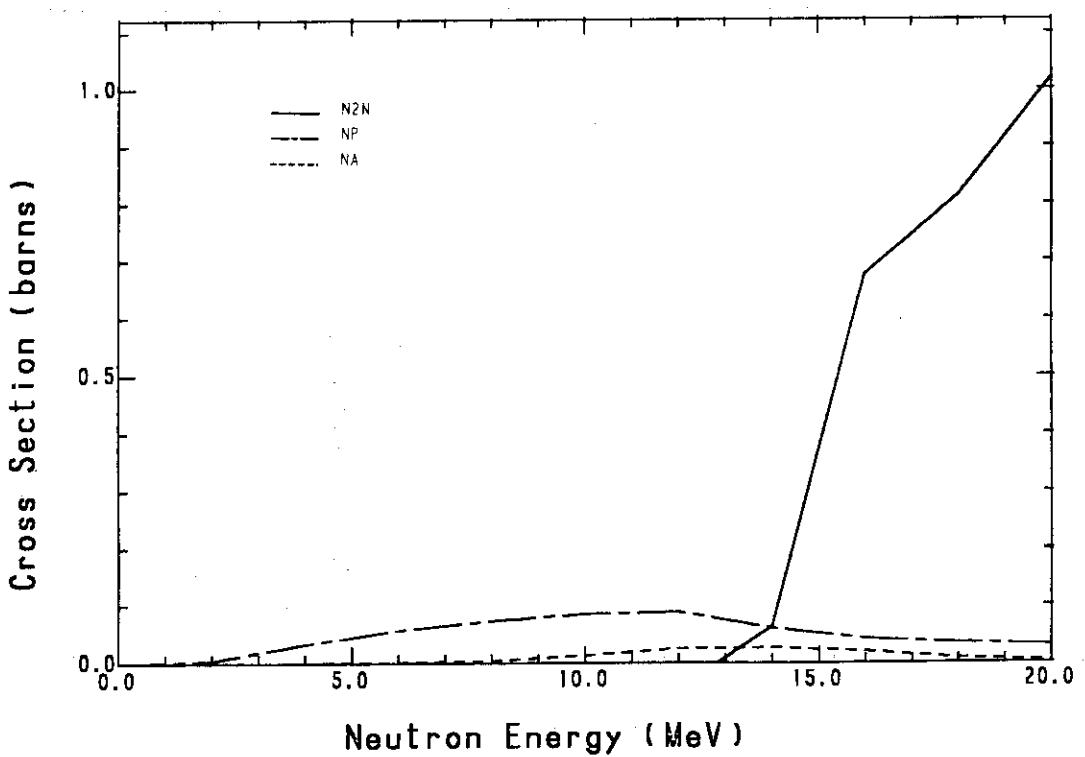
^{92}Mo
 (n, n')

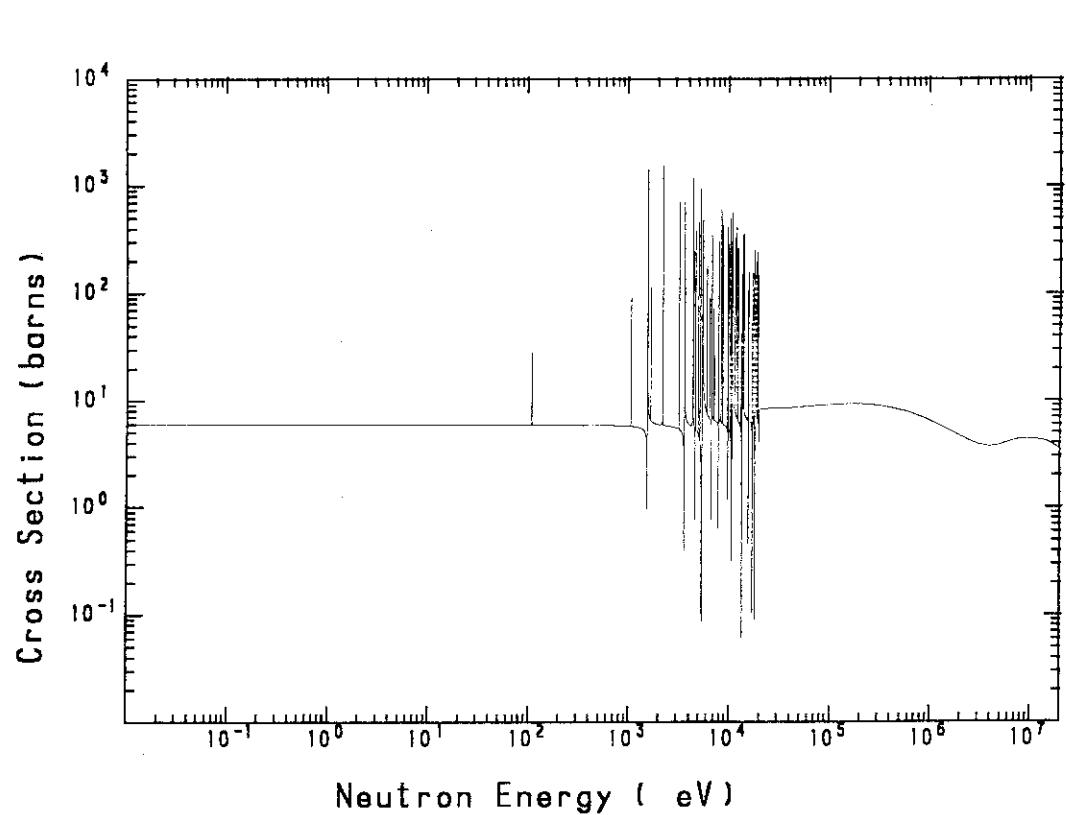
MAT=2421
MT= 4
51~55



^{92}Mo
 $(n, 2n)$
 (n, p)
 (n, α)

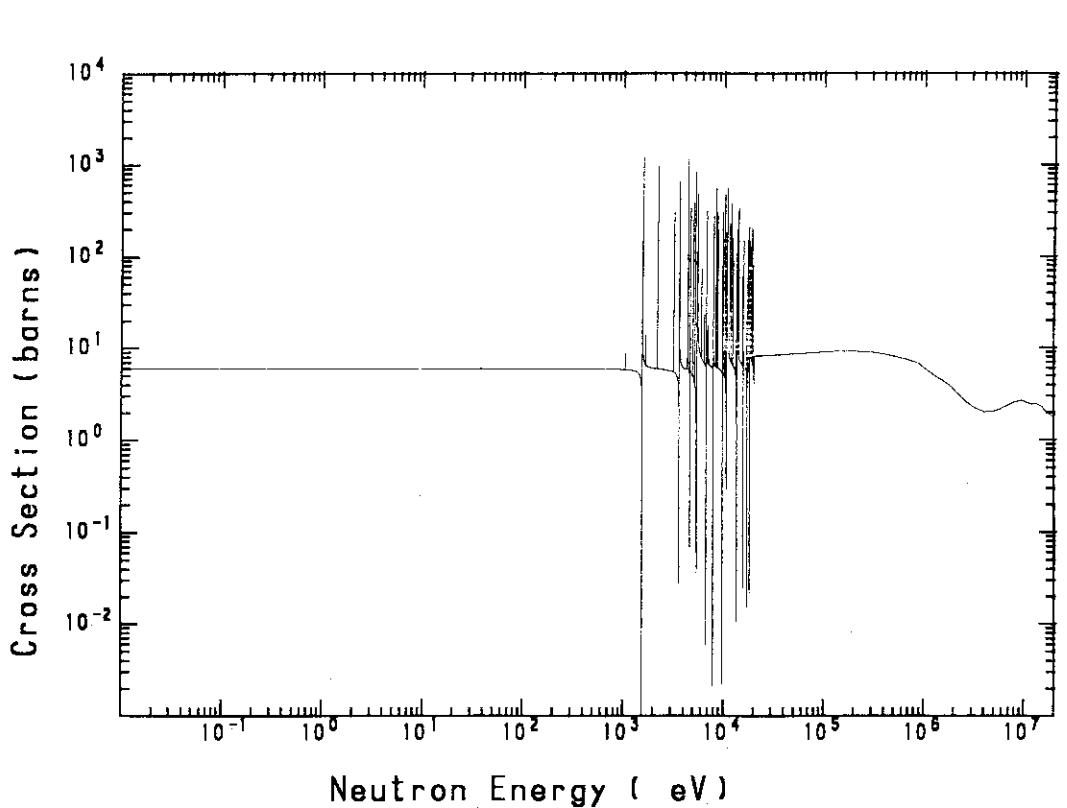
MAT=2421
MT= 16
103
107





^{94}Mo
TOTAL

MAT=2422
MT = 1

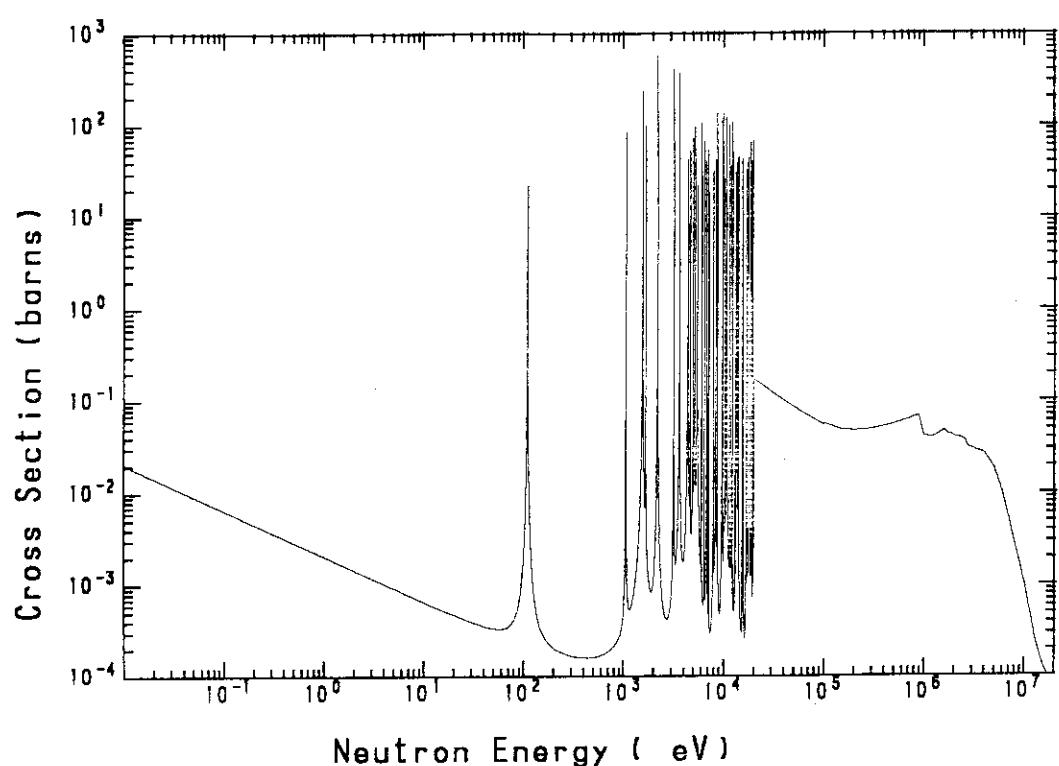


^{94}Mo
(n, n)

MAT=2422
MT = 2

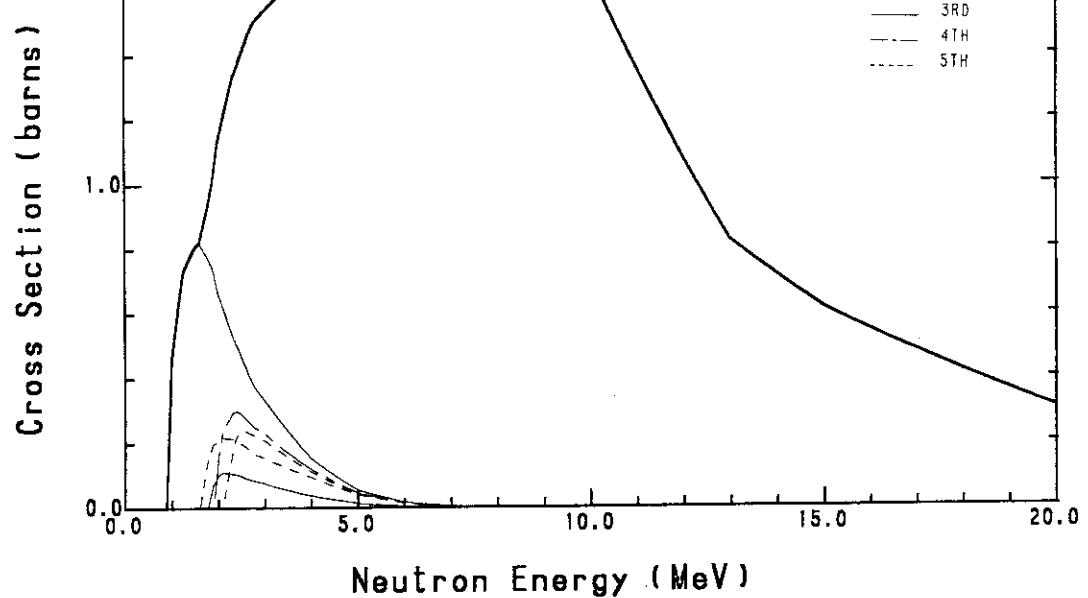
^{94}Mo
 (n, γ)

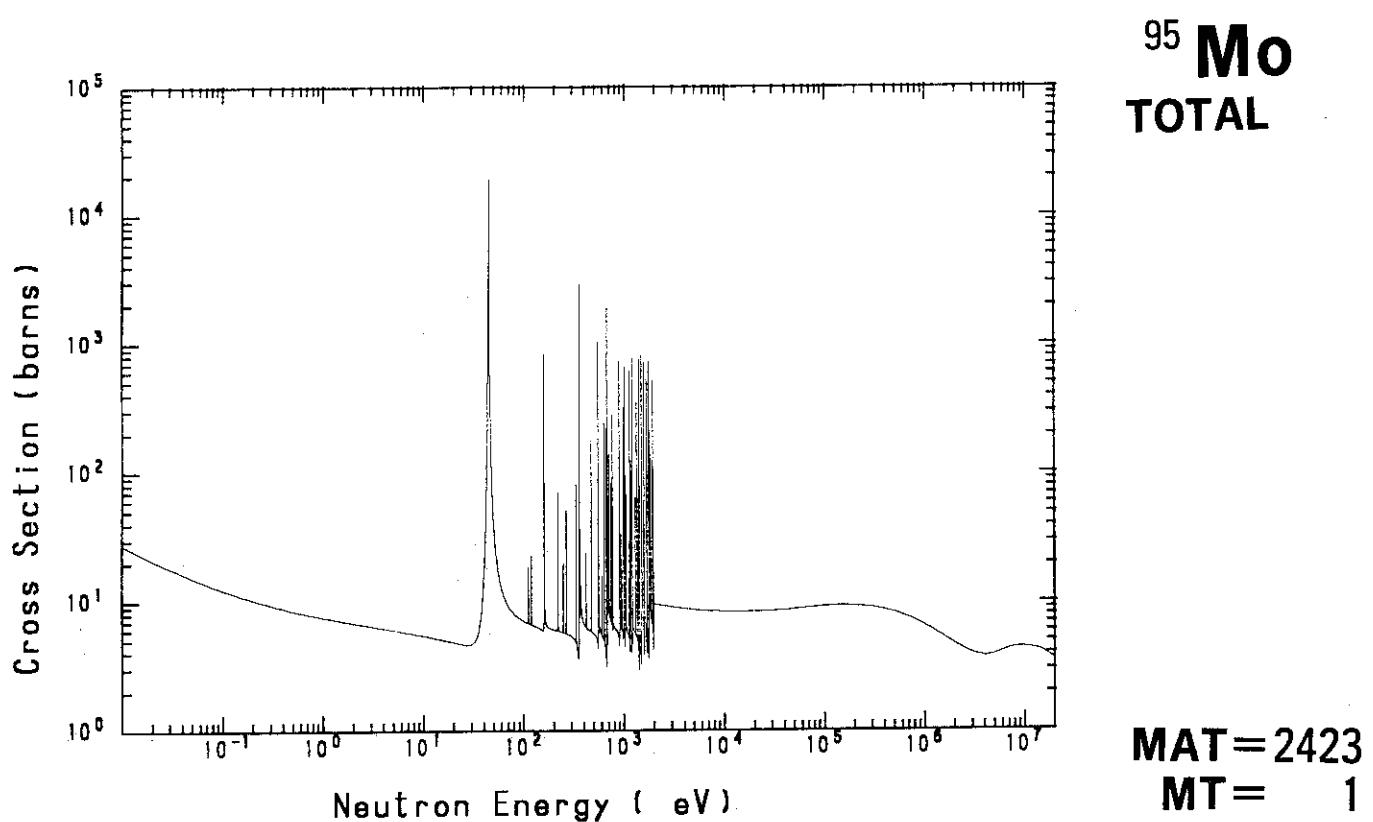
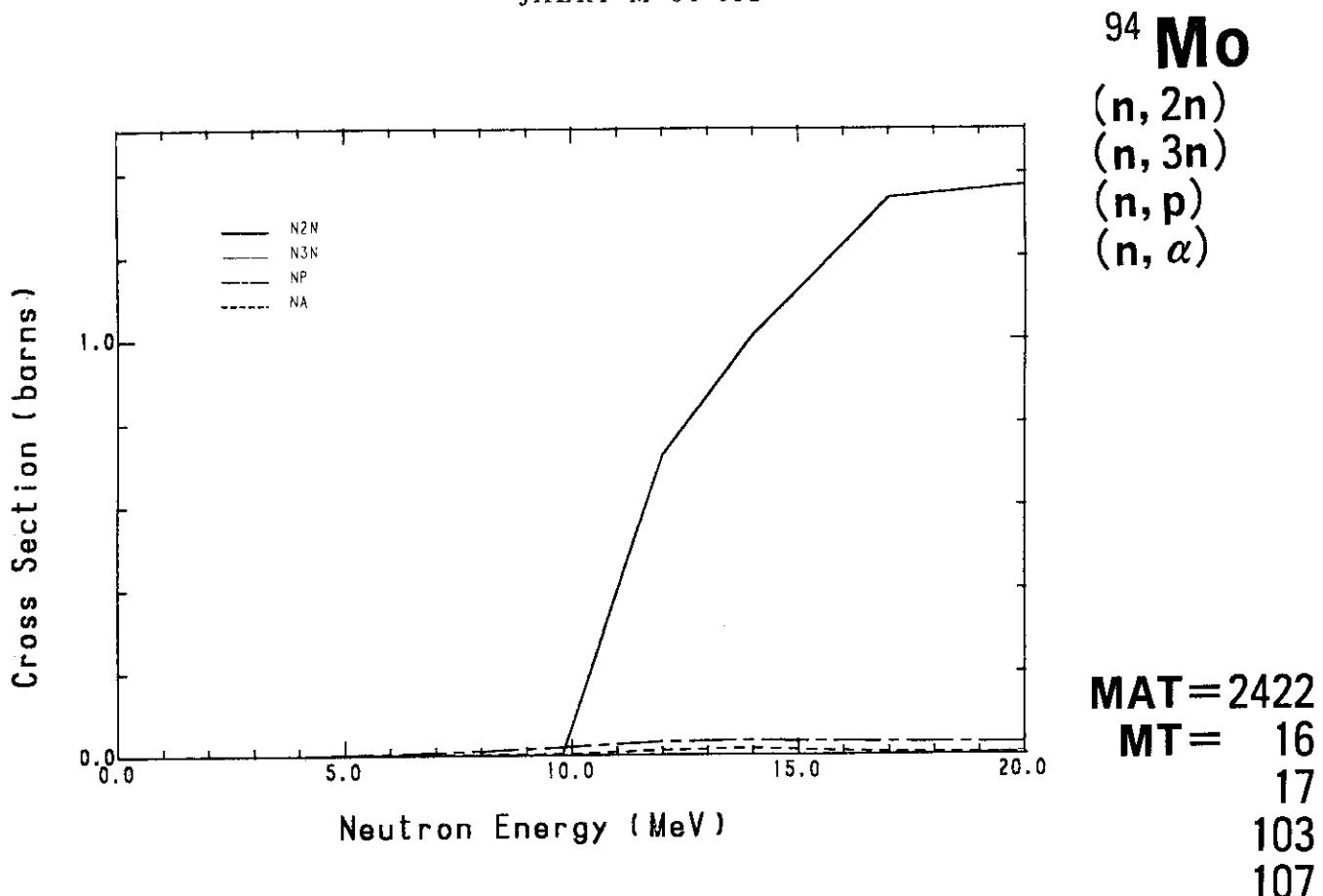
MAT=2422
MT = 102



^{94}Mo
 (n, n')

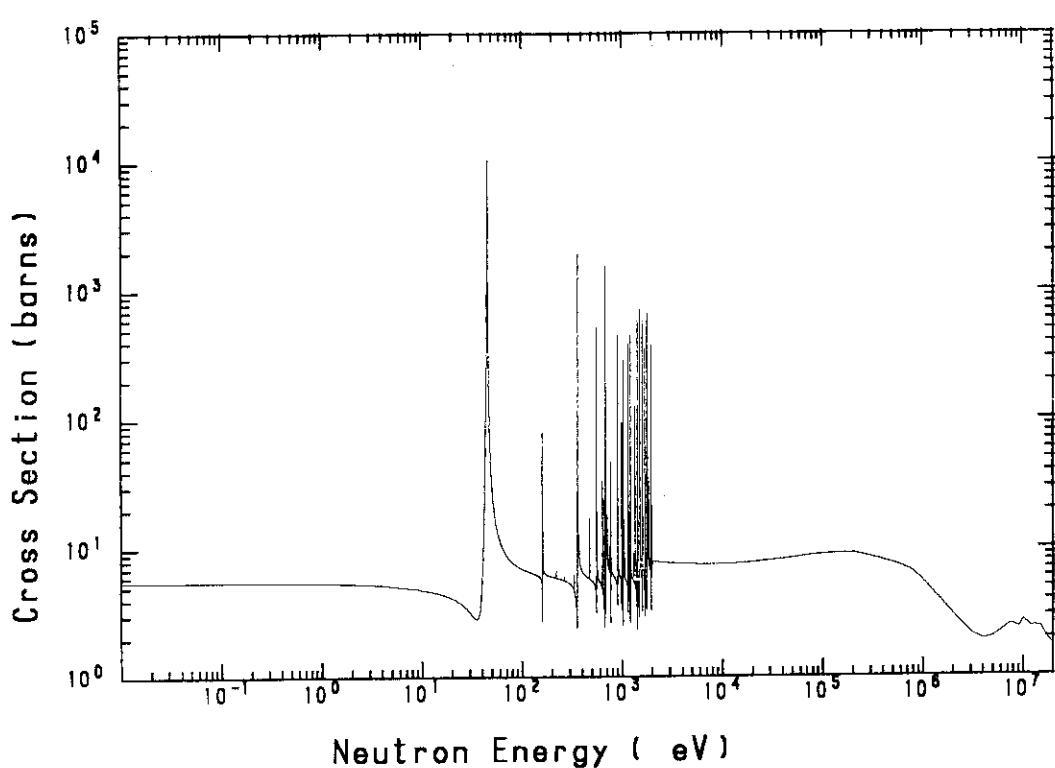
MAT=2422
MT = 4
51~55





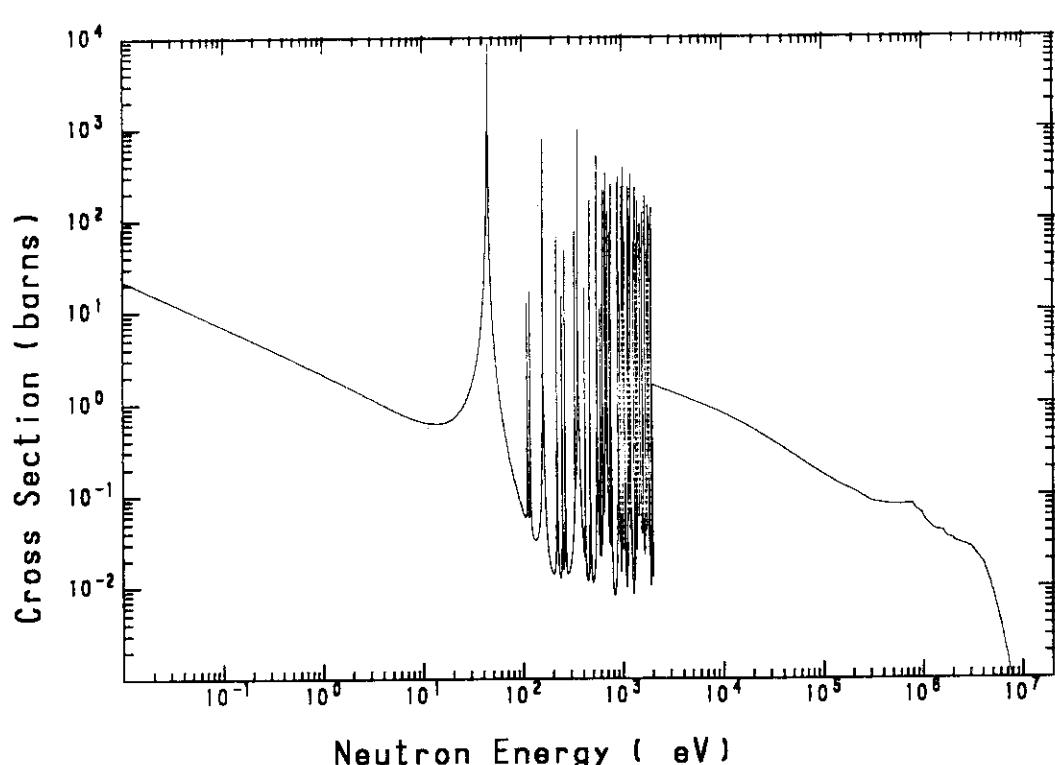
^{95}Mo
 (n, n)

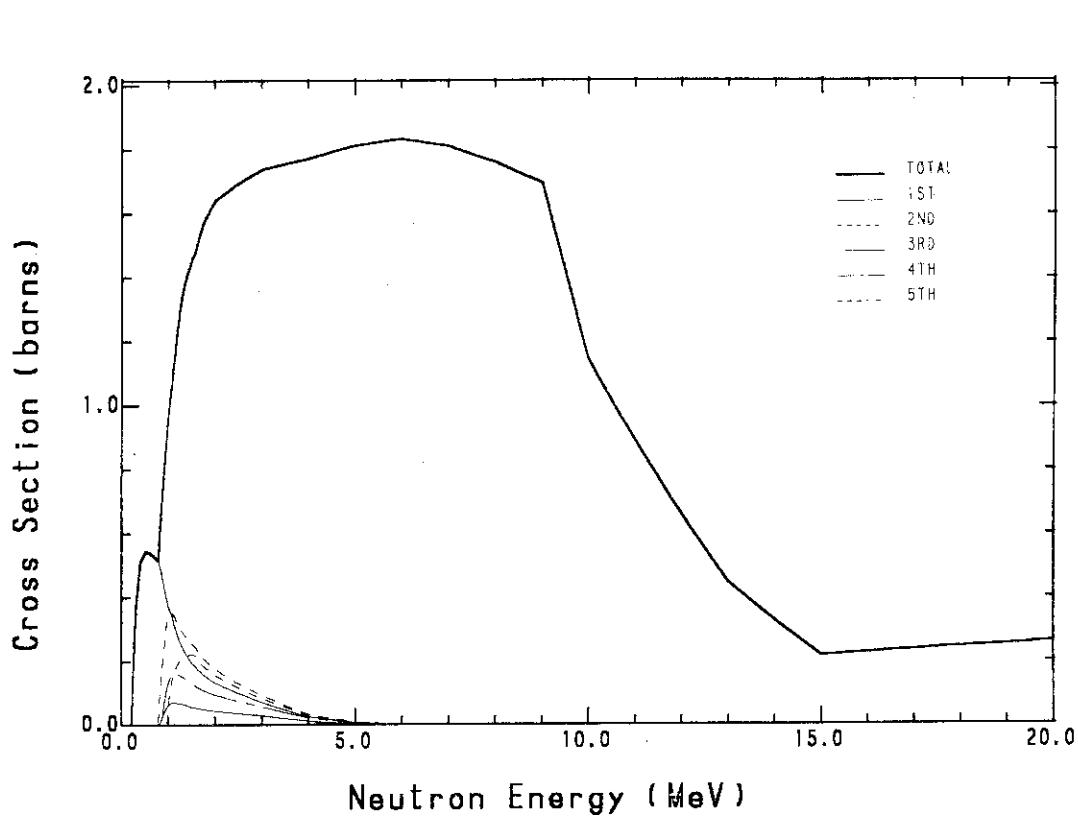
MAT=2423
MT = 2



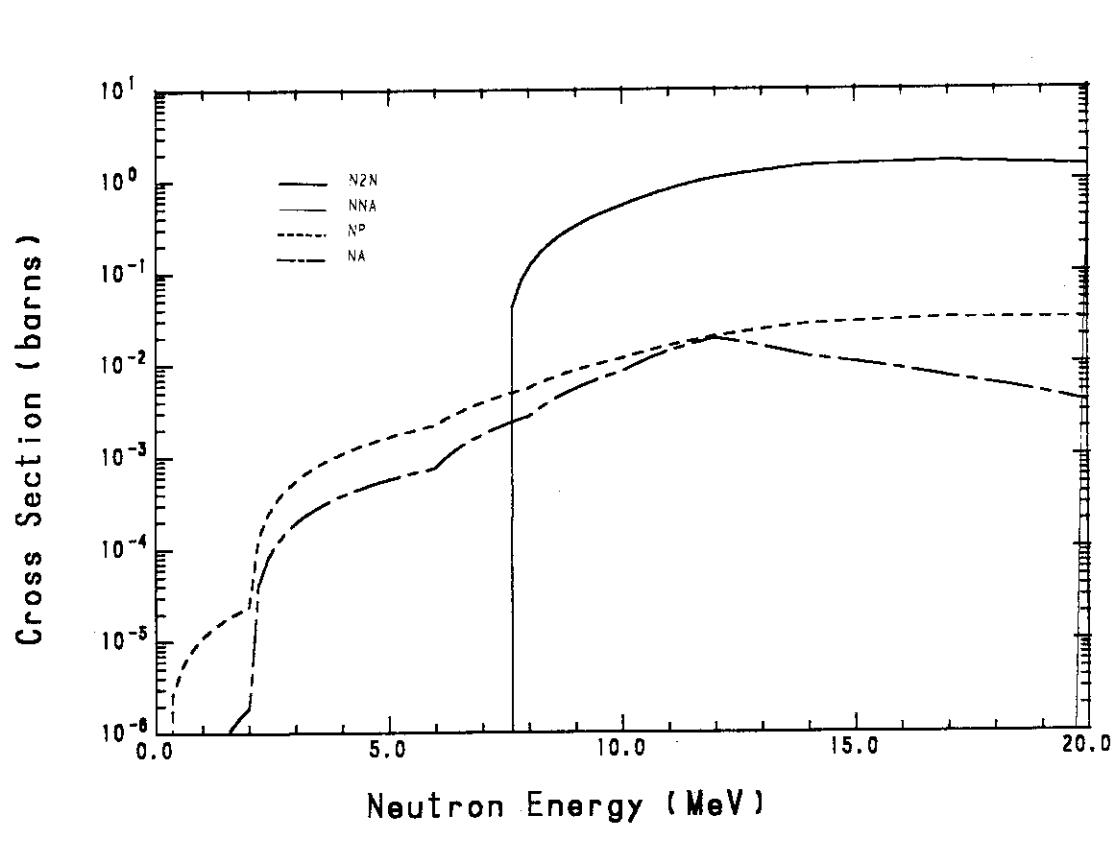
^{95}Mo
 (n, γ)

MAT=2423
MT = 102





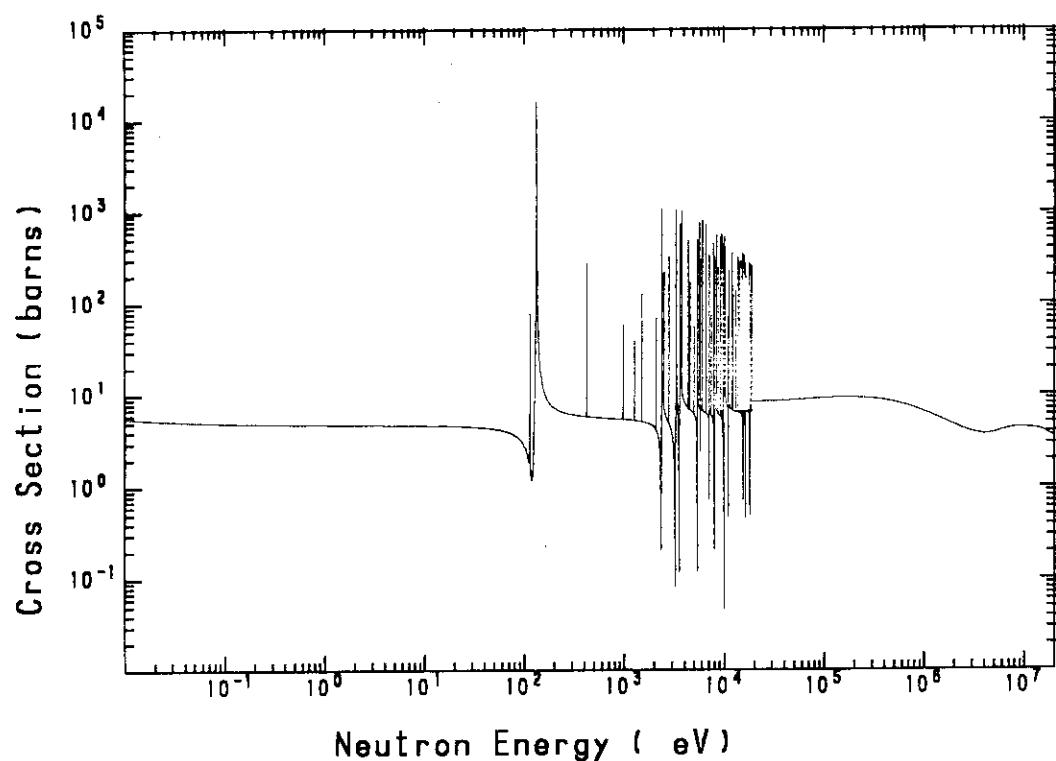
MAT=2423
MT= 4
51~55



MAT=2423
MT= 16
17
103
107

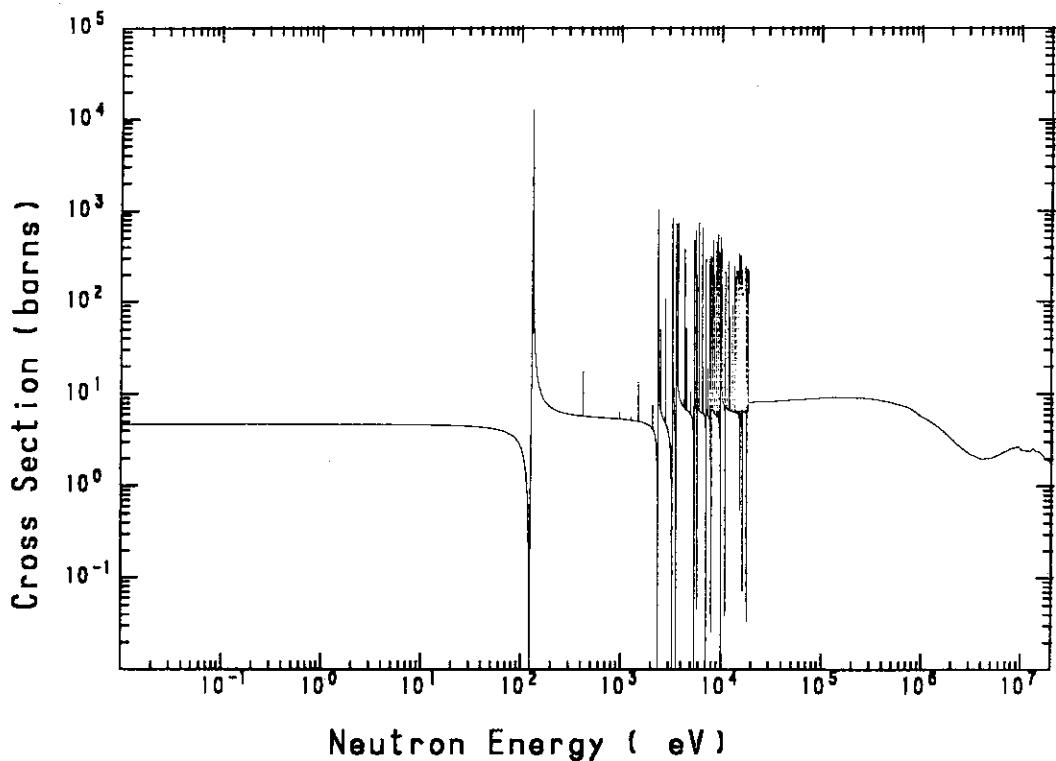
^{96}Mo
TOTAL

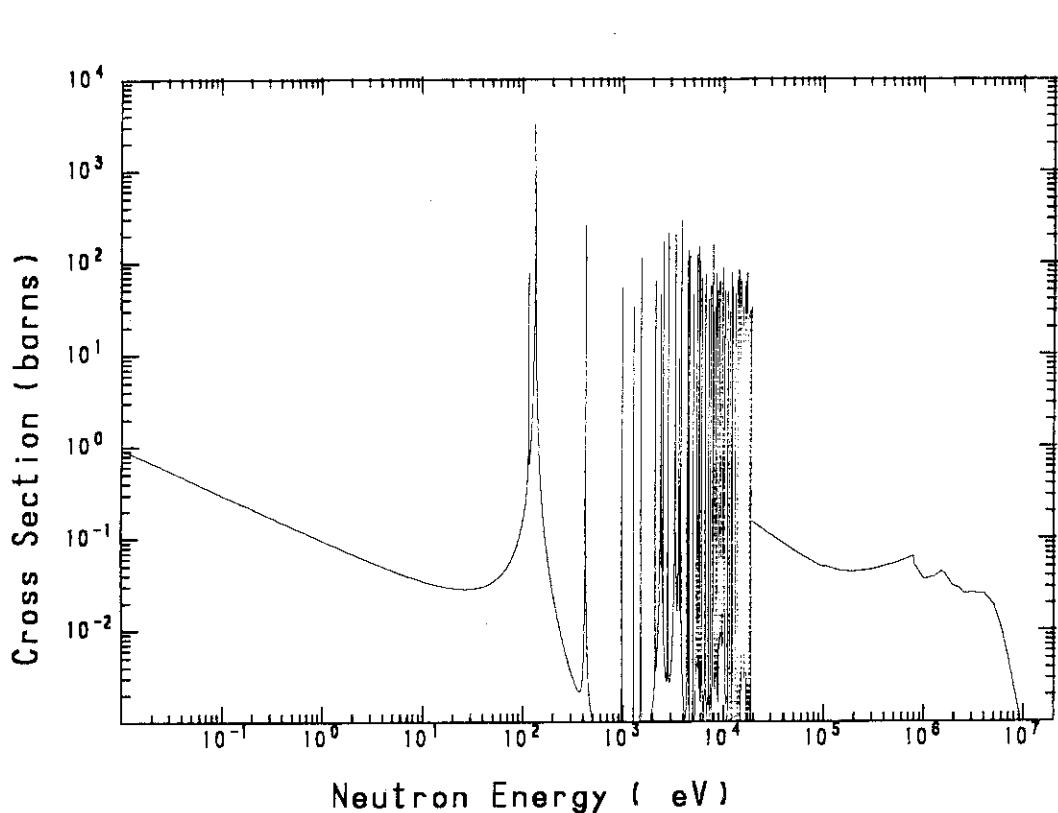
MAT=2424
MT= 1



^{96}Mo
(n, n)

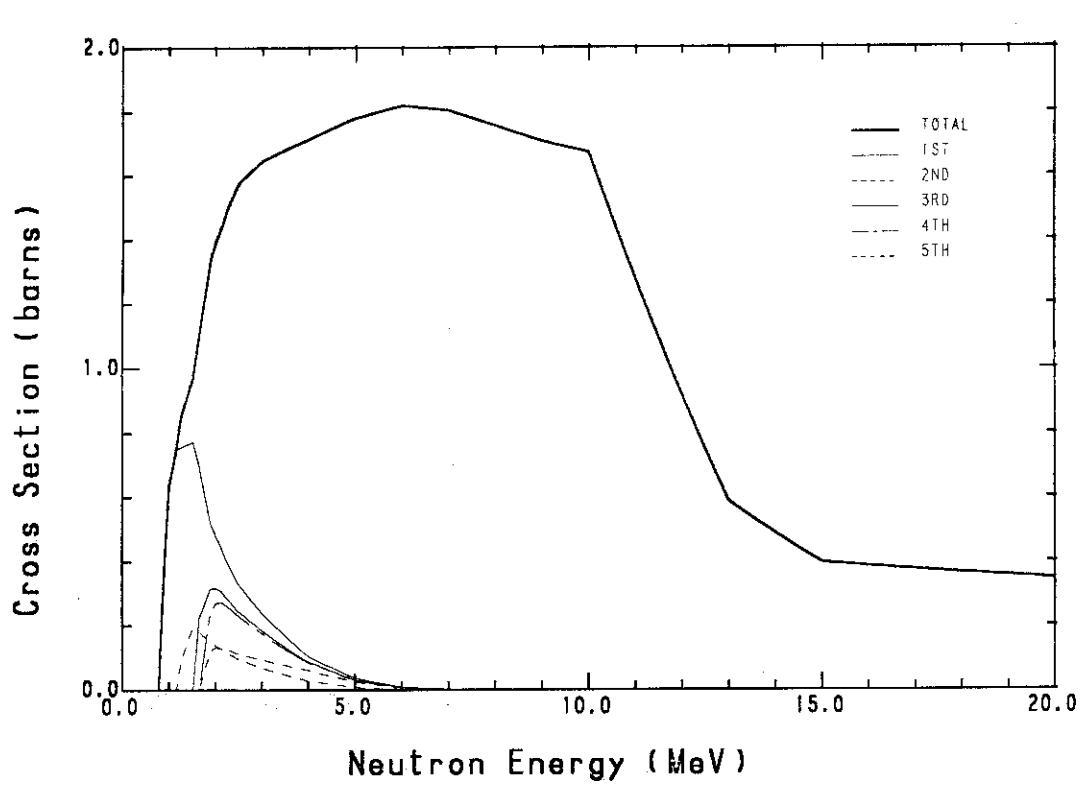
MAT=2424
MT= 2





^{96}Mo
 (n, γ)

MAT=2424
MT= 102



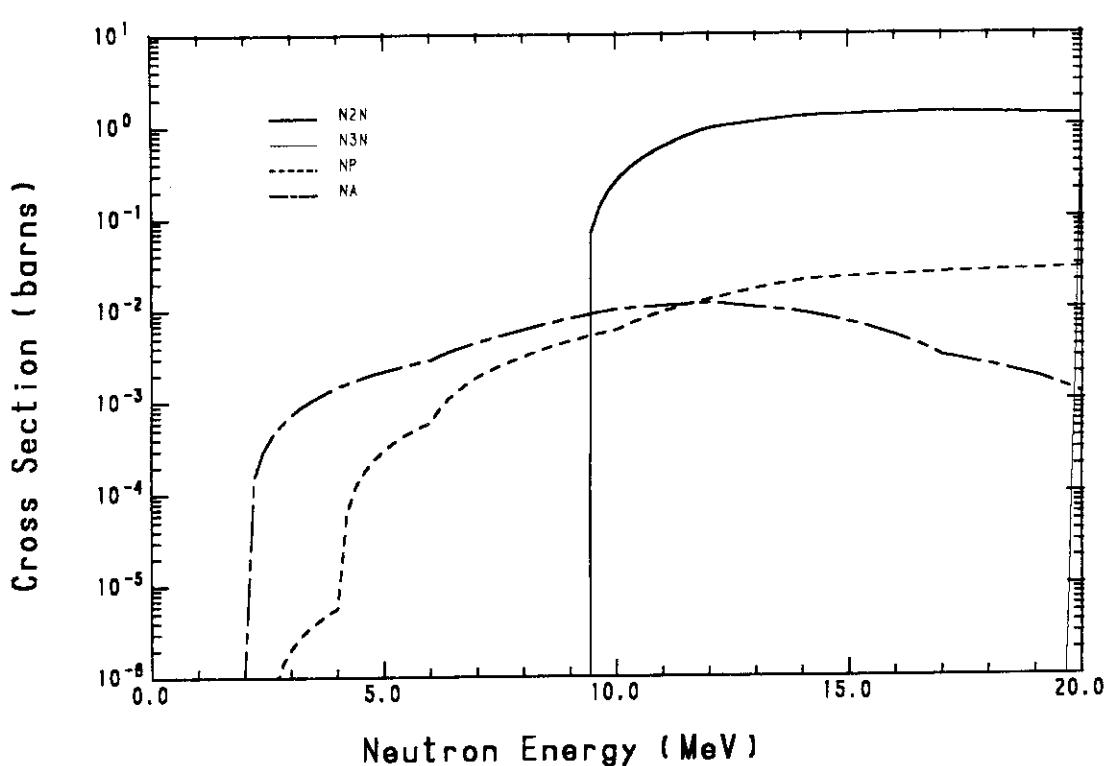
^{96}Mo
 (n, n')

MAT=2424
MT= 4
51~55

^{96}Mo

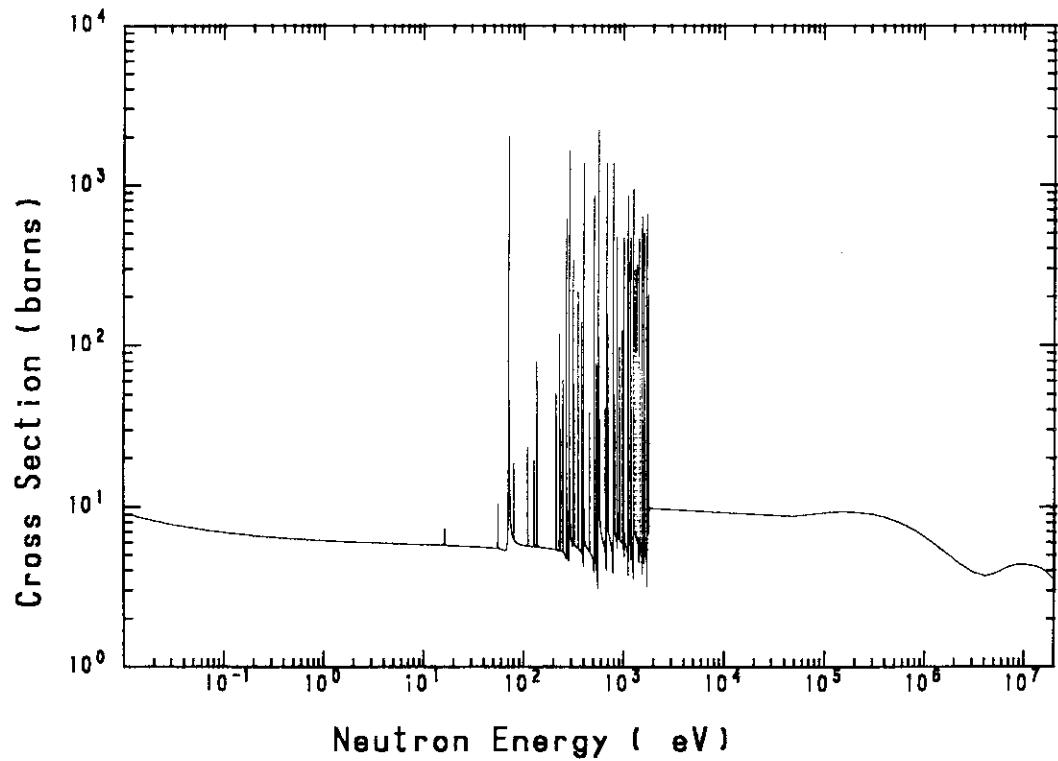
(n, 2n)
 (n, 3n)
 (n, p)
 (n, α)

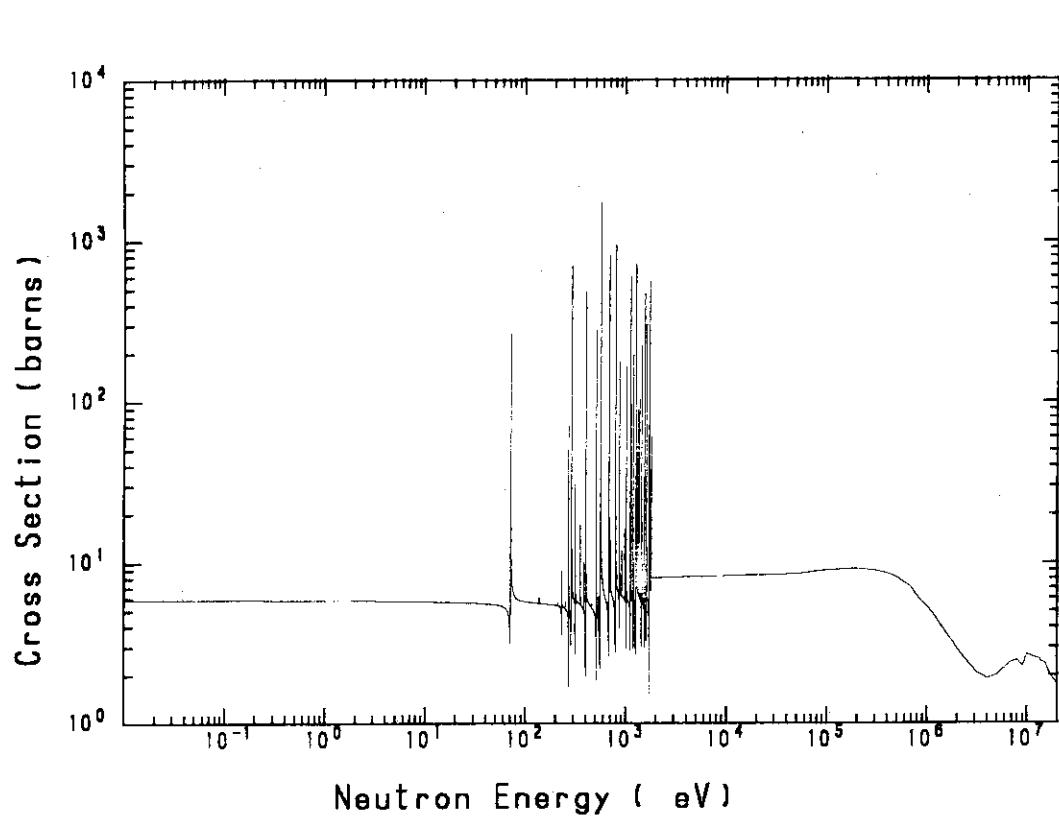
MAT=2424
 MT= 16
 17
 103
 107

 **^{97}Mo**

TOTAL

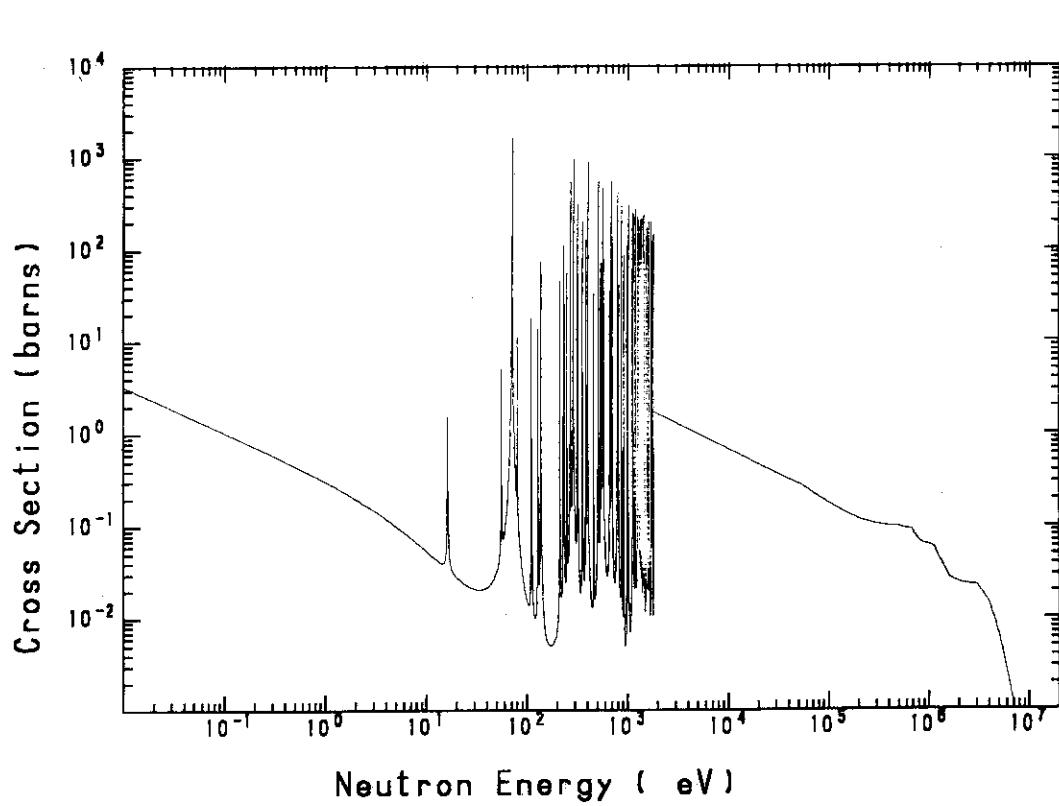
MAT=2425
 MT= 1





^{97}Mo
(n, n)

MAT=2425
MT= 2

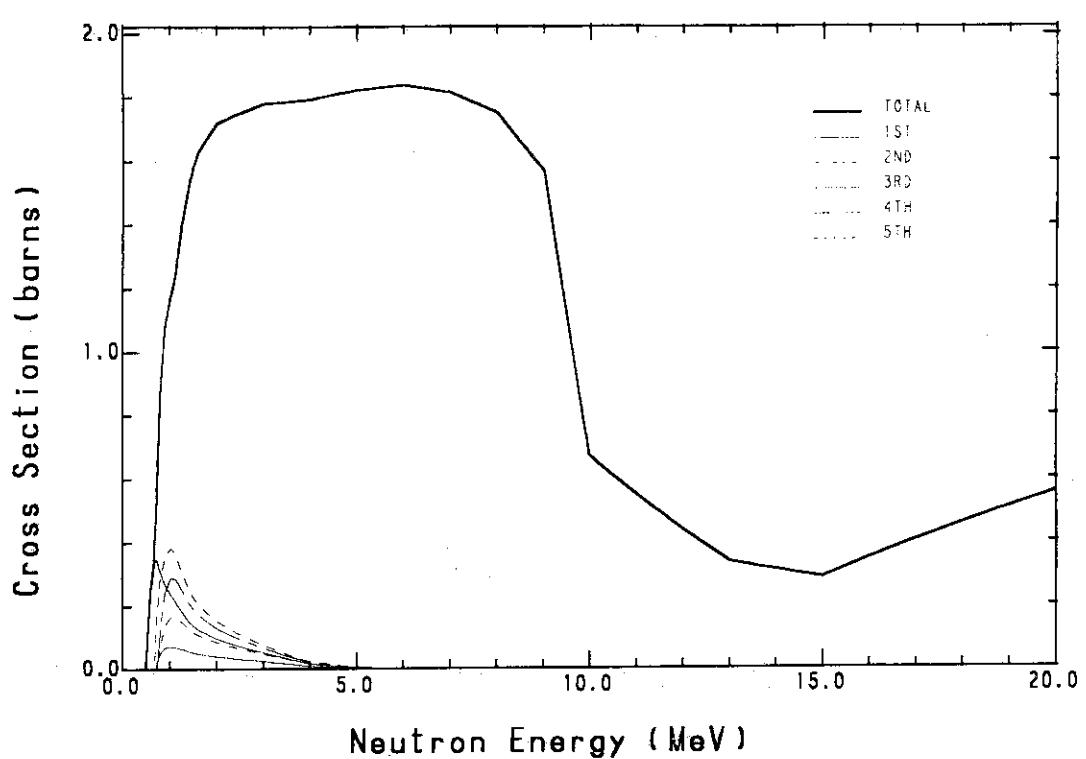


^{97}Mo
(n, γ)

MAT=2425
MT= 102

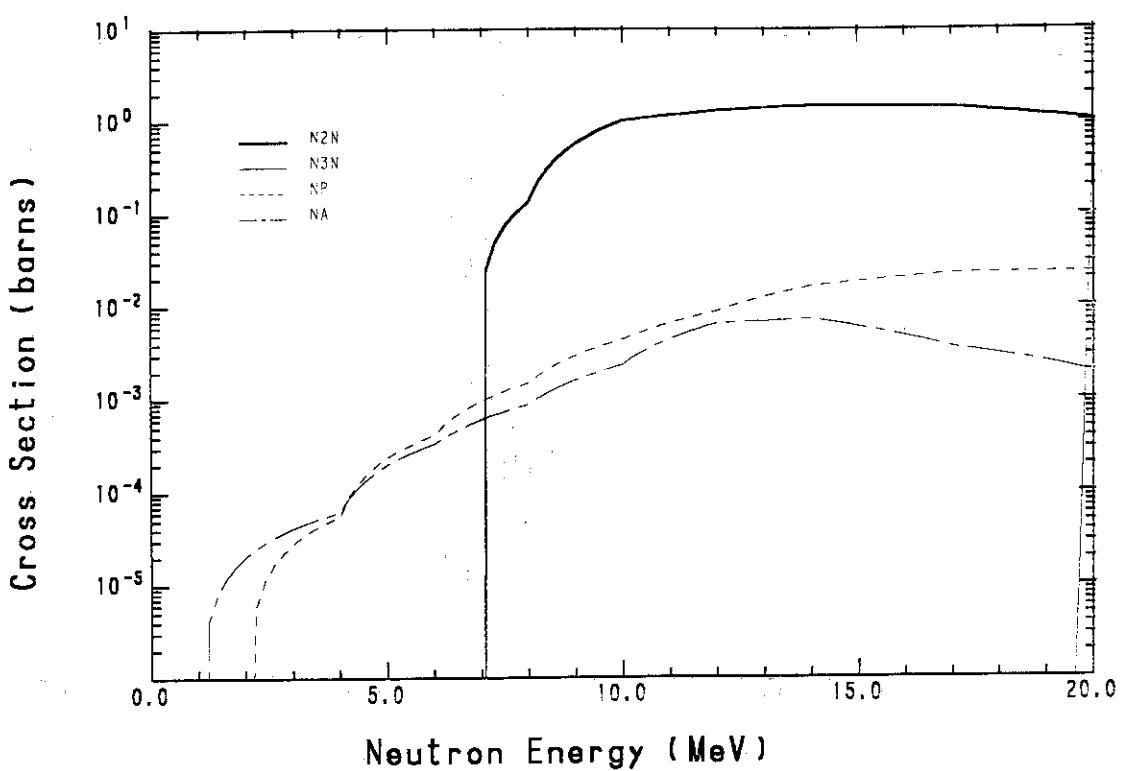
^{97}Mo
 (n, n')

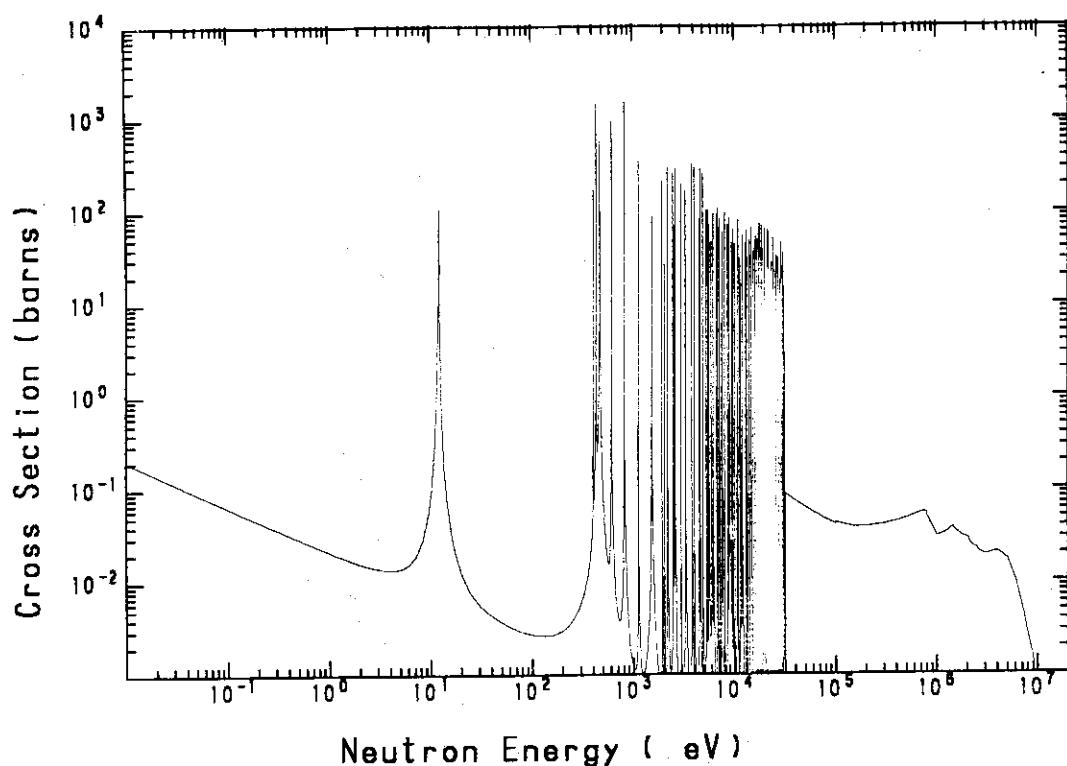
MAT=2425
MT= 4
51~55



^{97}Mo
 $(n, 2n)$
 $(n, 3n)$
 (n, p)
 (n, α)

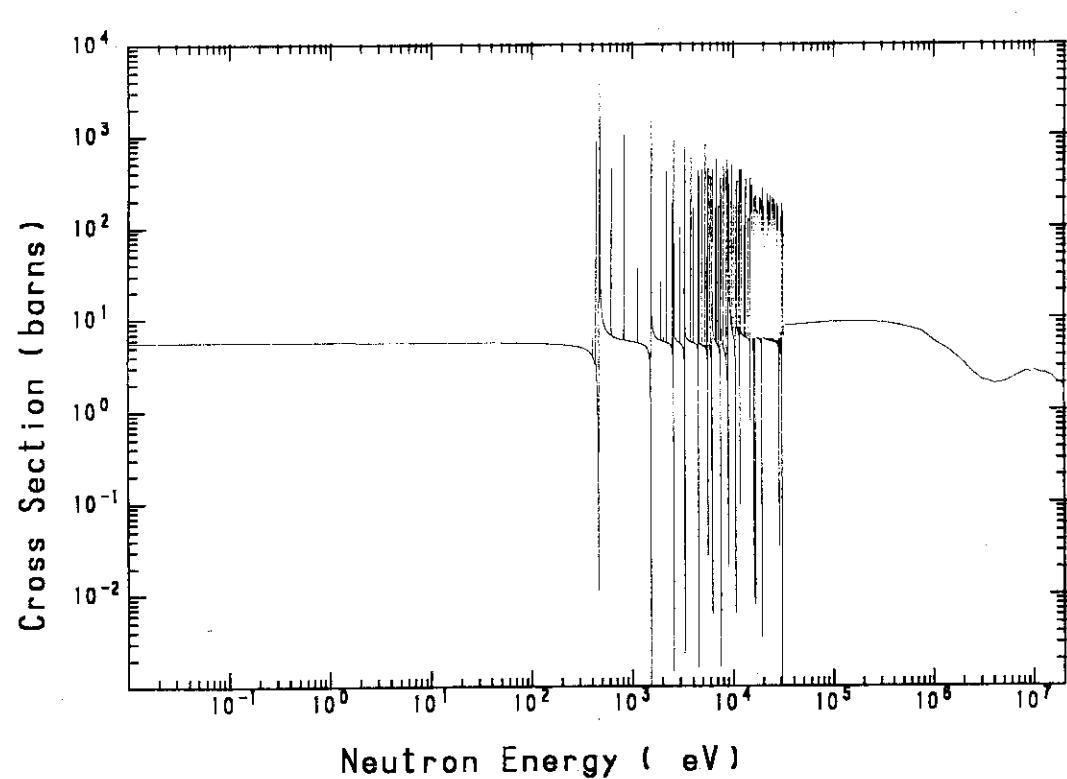
MAT=2425
MT= 16
17
103
107





^{98}Mo
TOTAL

MAT=2426
MT= 1

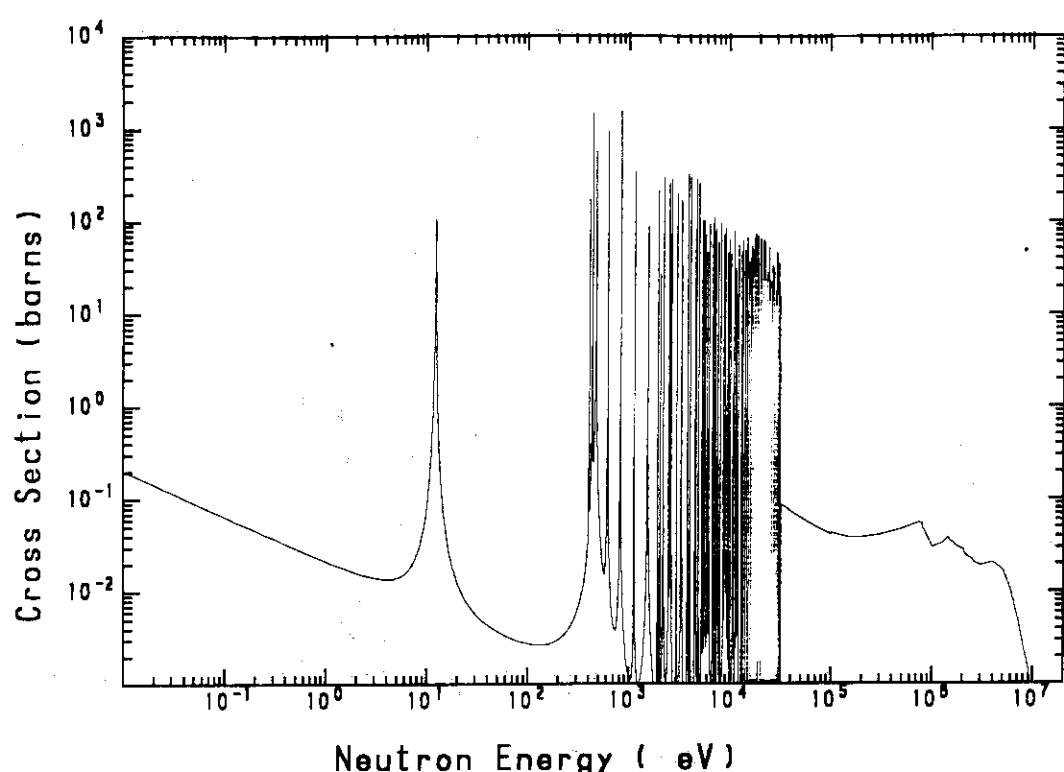


^{98}Mo
(n, n)

MAT=2426
MT= 2

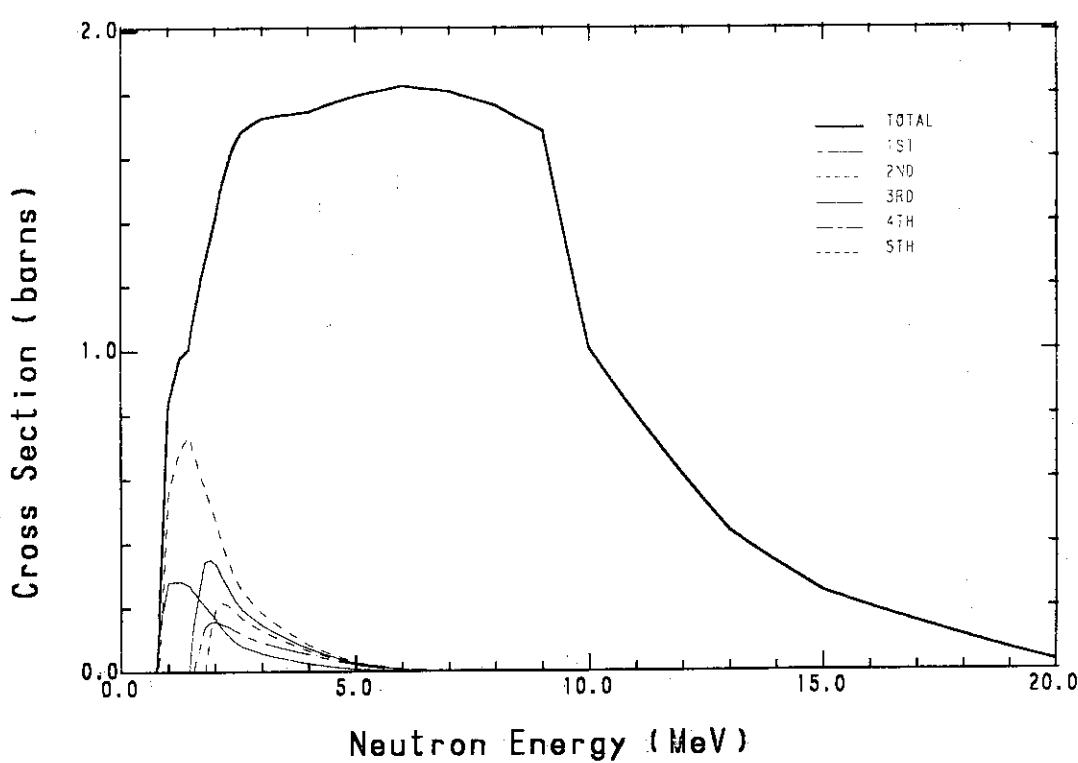
^{98}Mo
(n, γ)

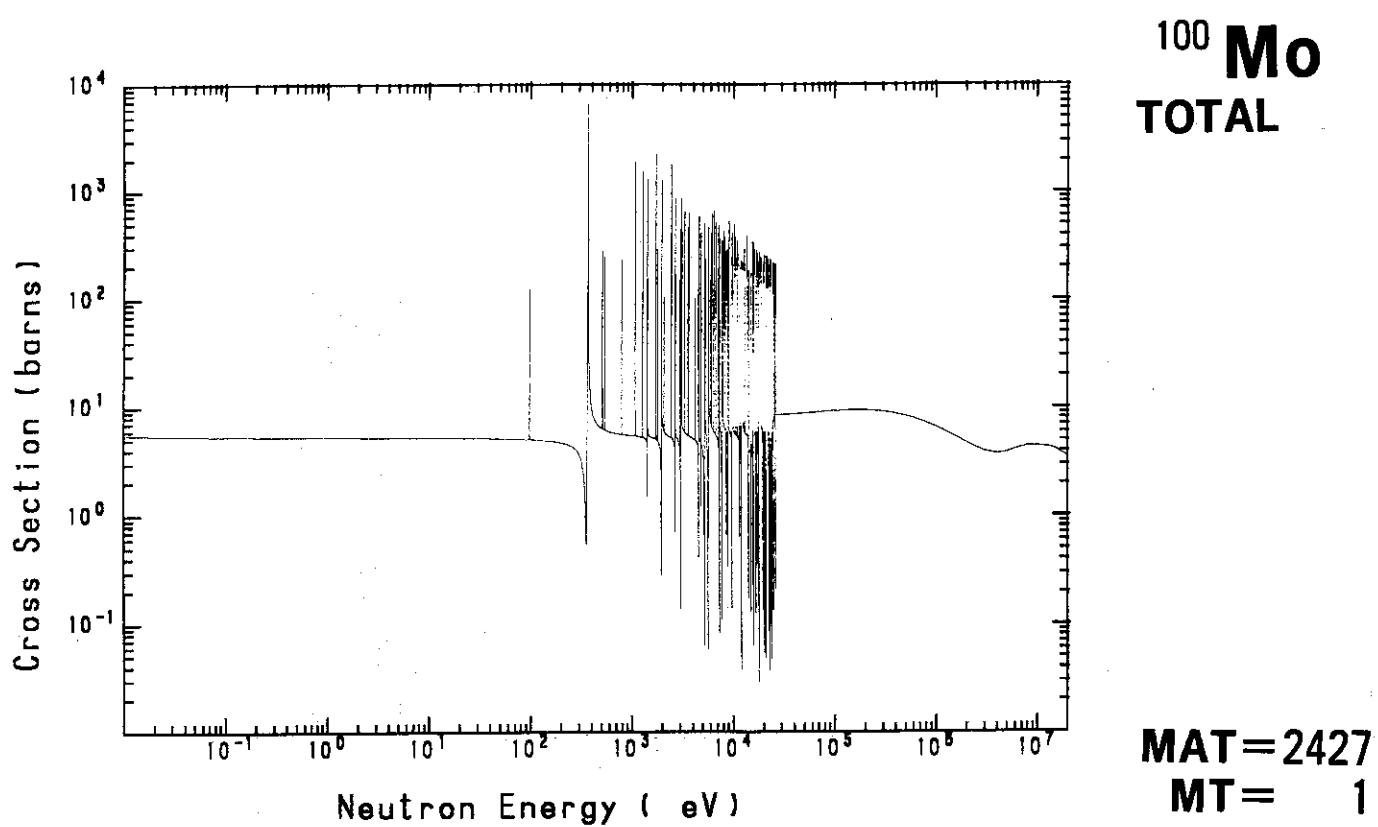
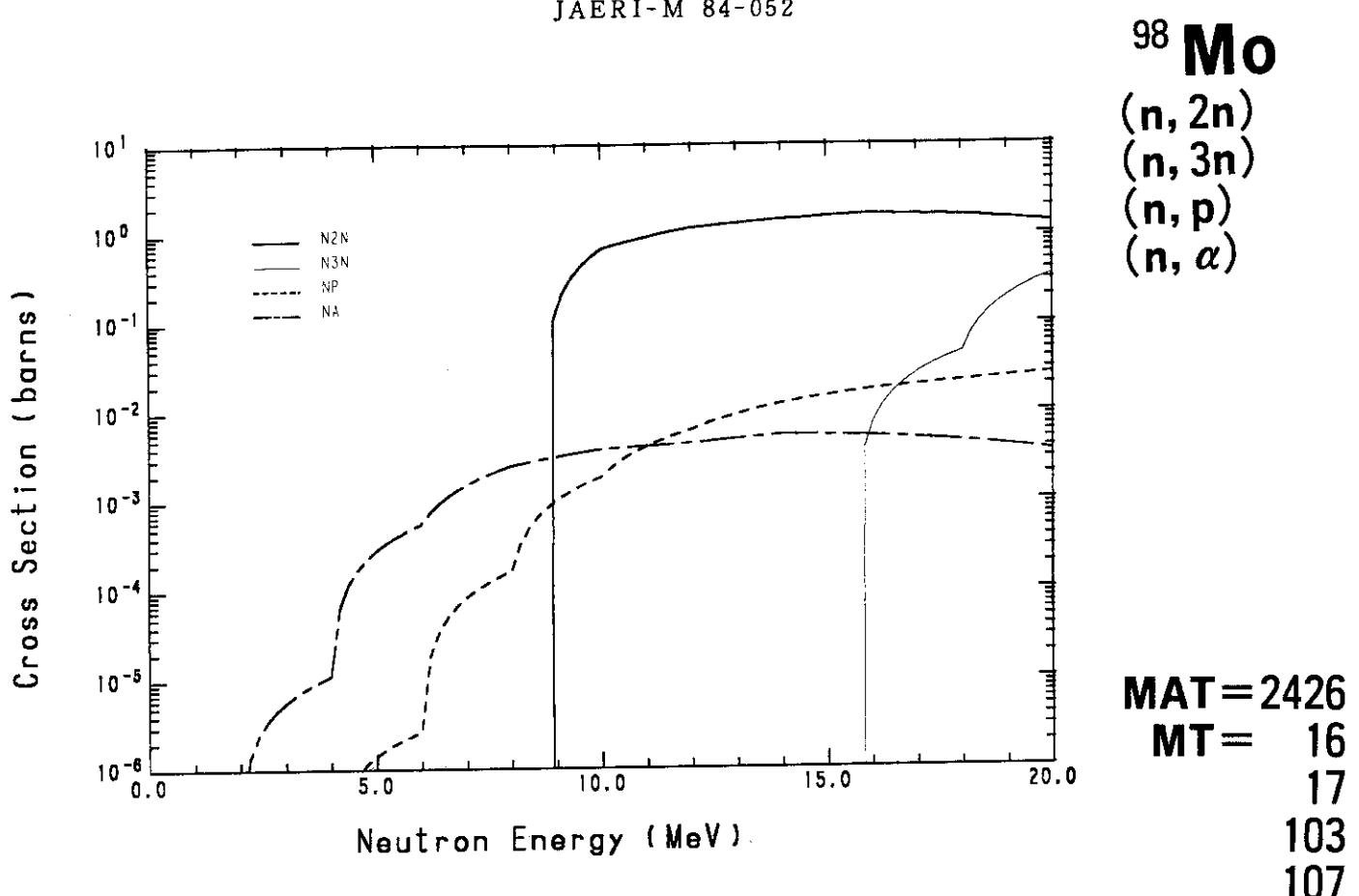
MAT=2426
MT= 102



^{98}Mo
(n, n')

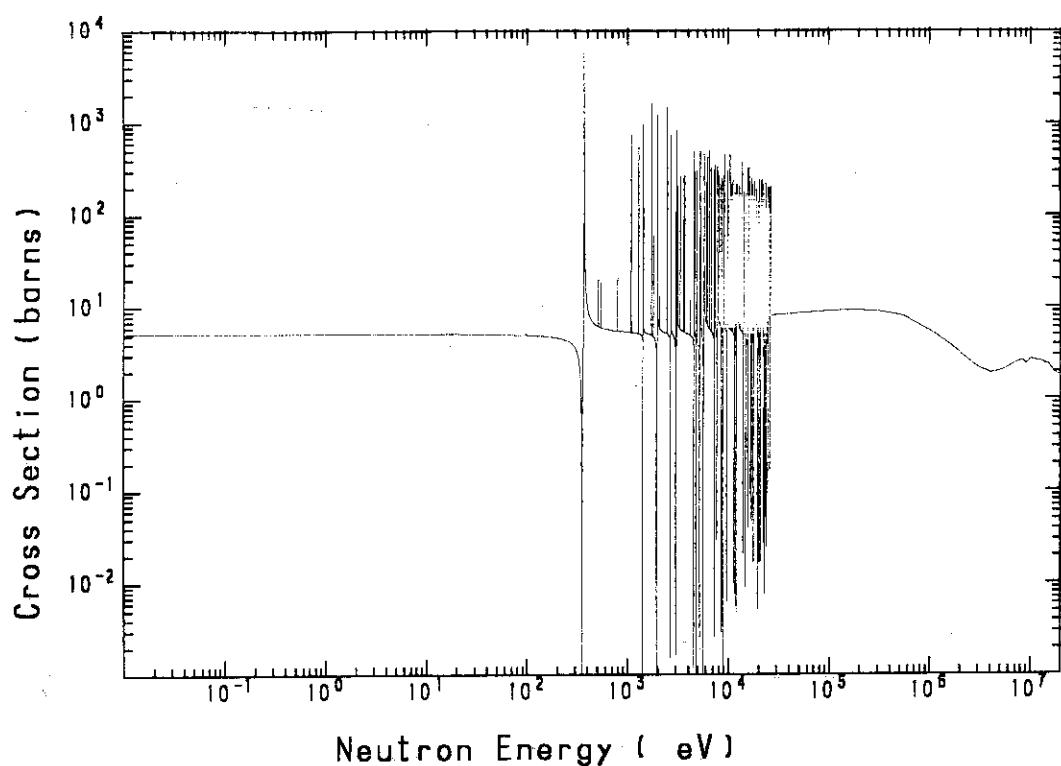
MAT=2426
MT= 4
51~55





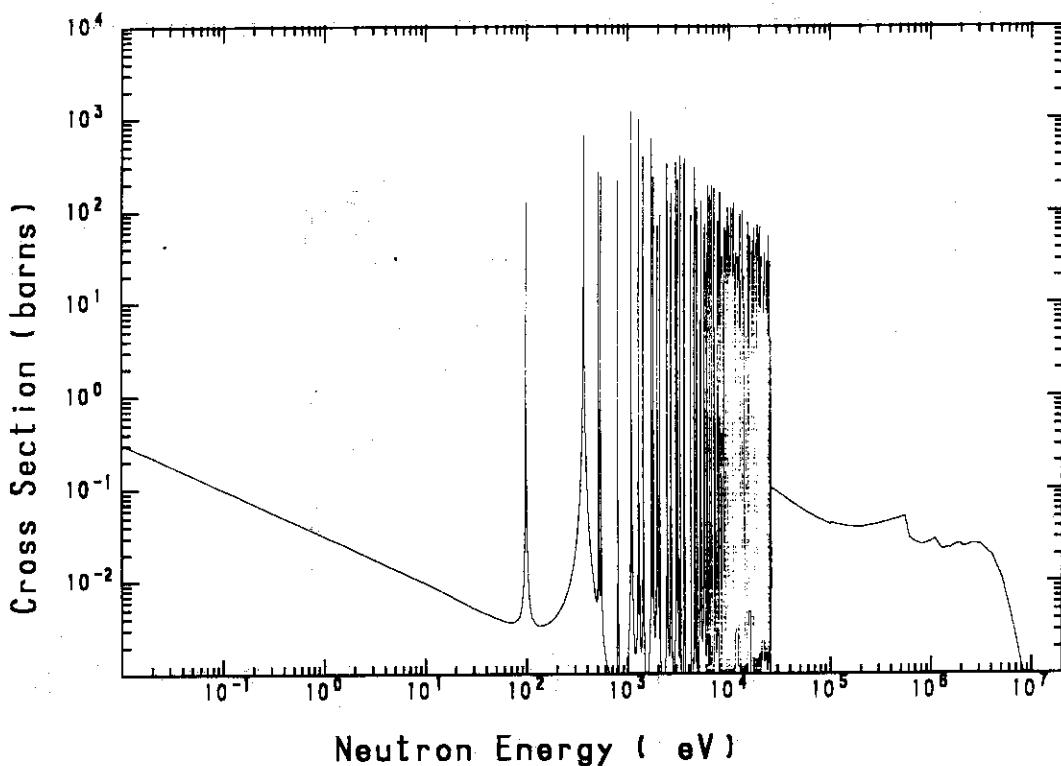
100 Mo
 (n, n)

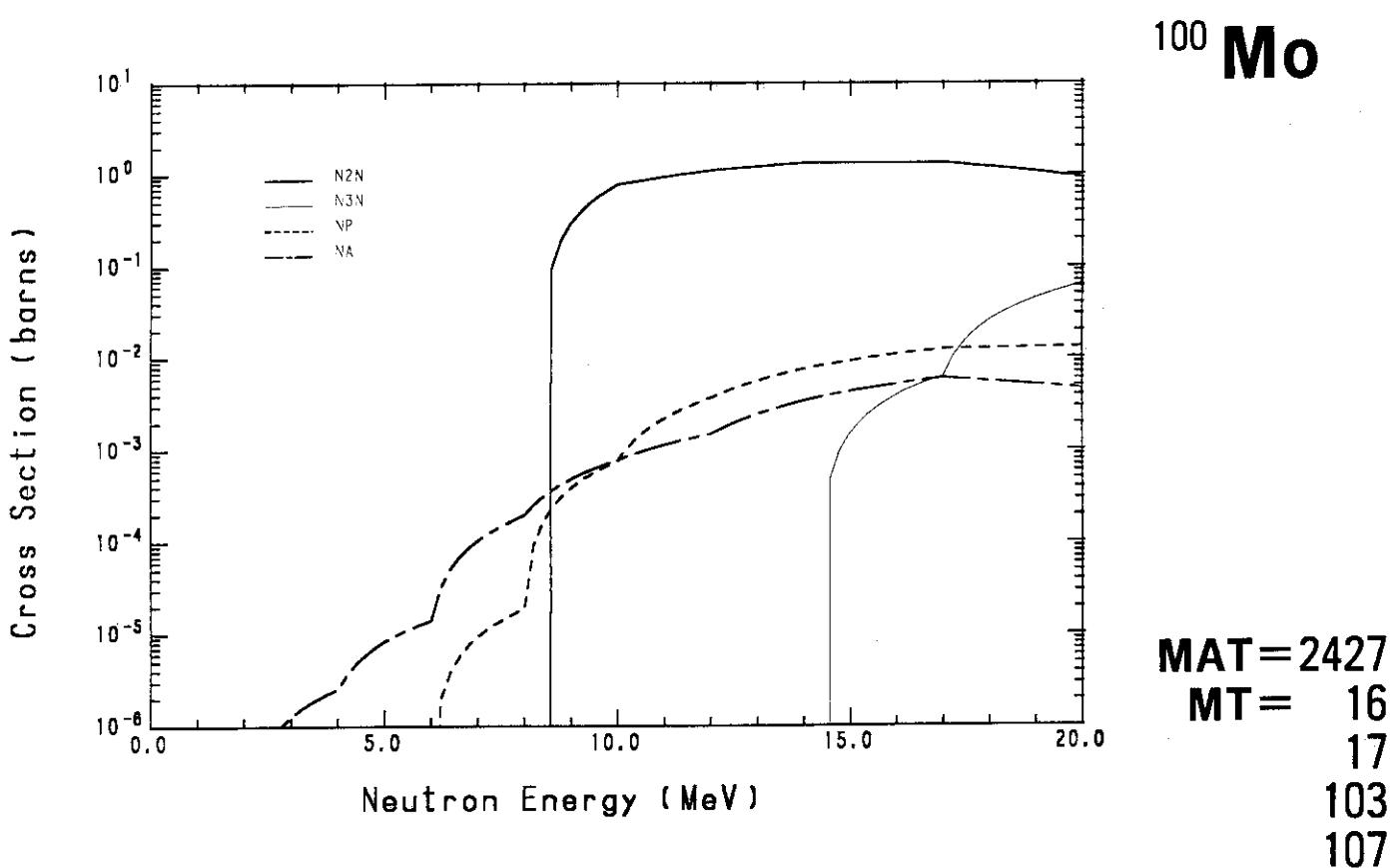
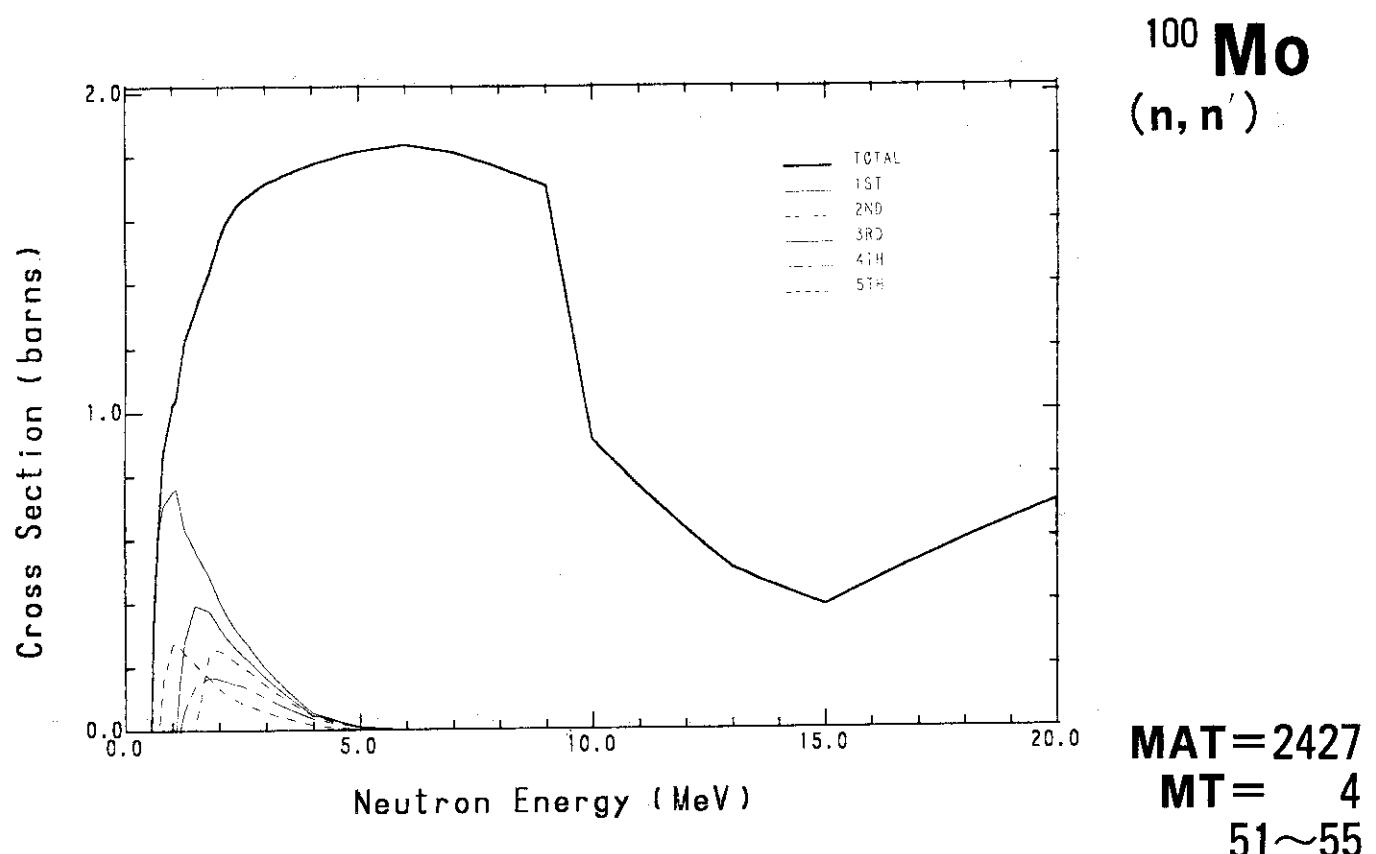
MAT=2427
 MT = 2



100 Mo
 (n, γ)

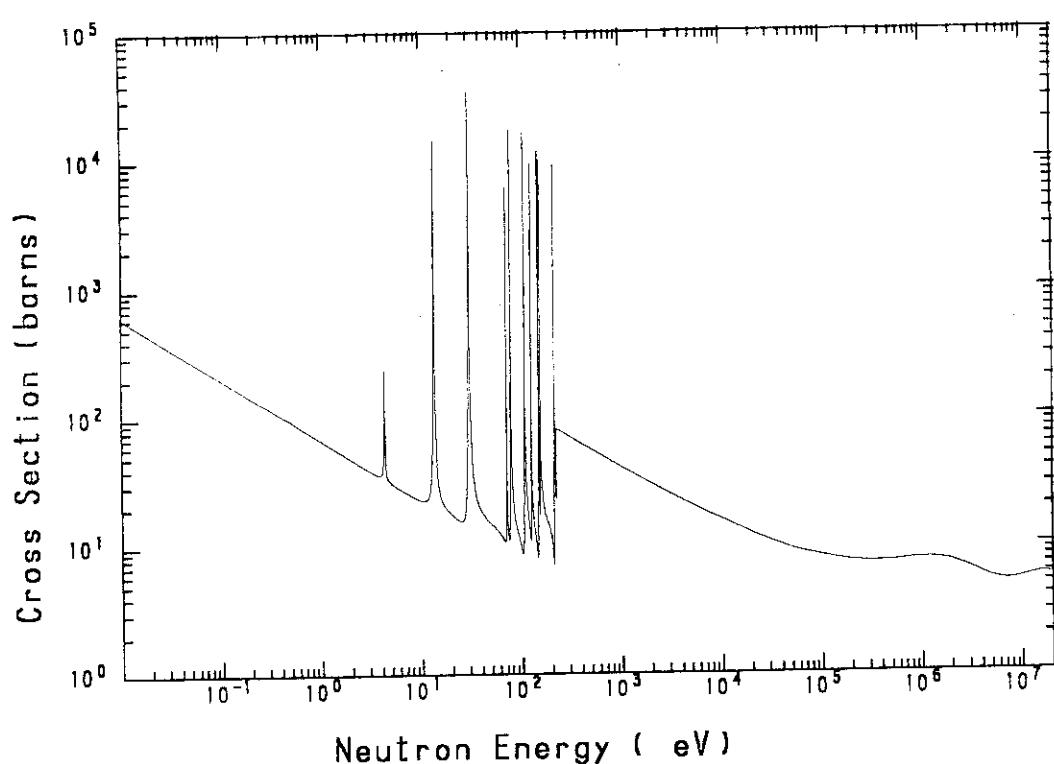
MAT=2427
 MT = 102





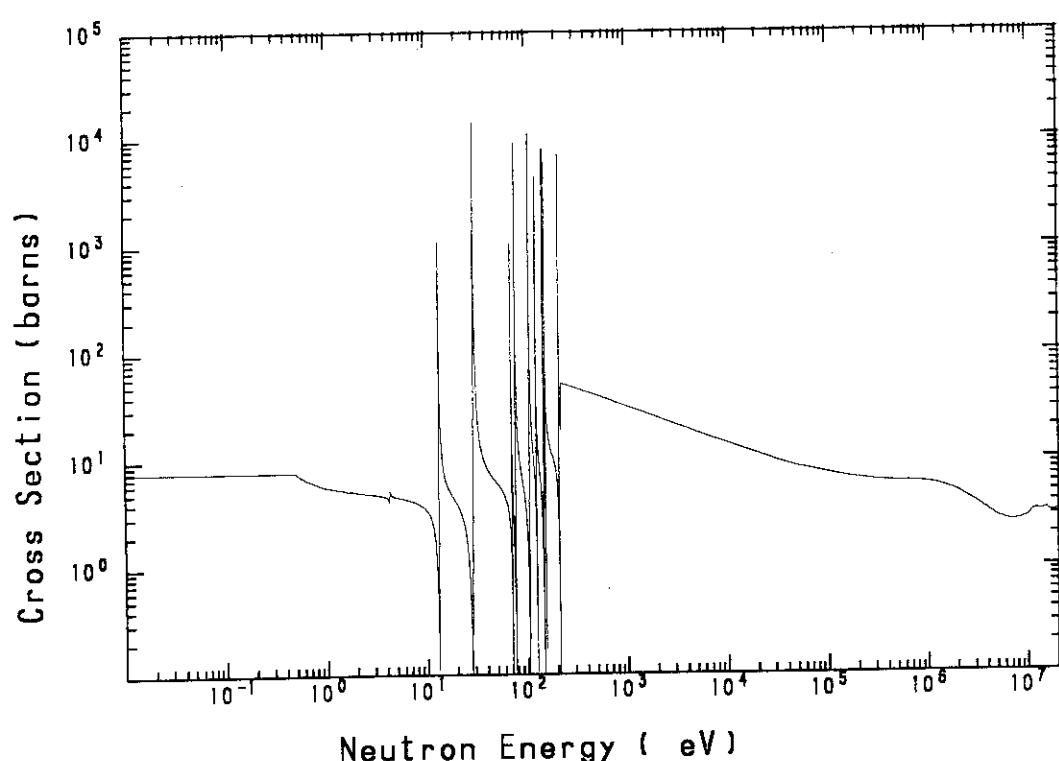
^{174}Hf
TOTAL

MAT=2721
MT= 1

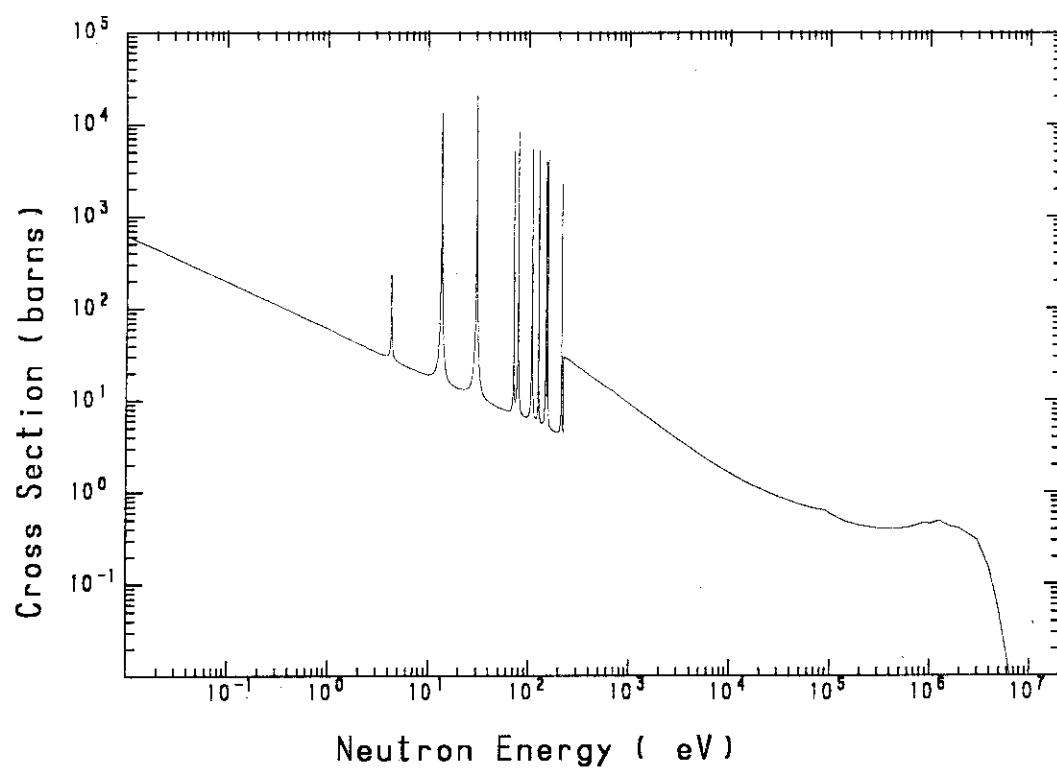


^{174}Hf
(n, n)

MAT=2721
MT= 2

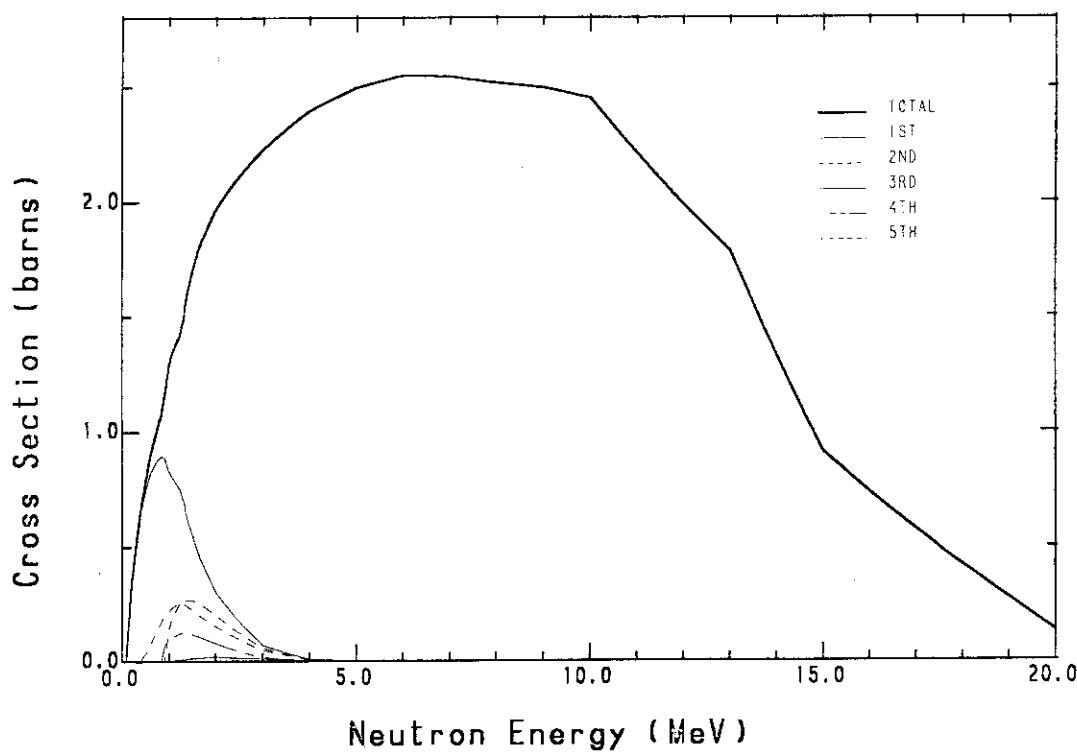


^{174}Hf
(n, γ)



MAT=2721
MT = 102

^{174}Hf
(n, n')



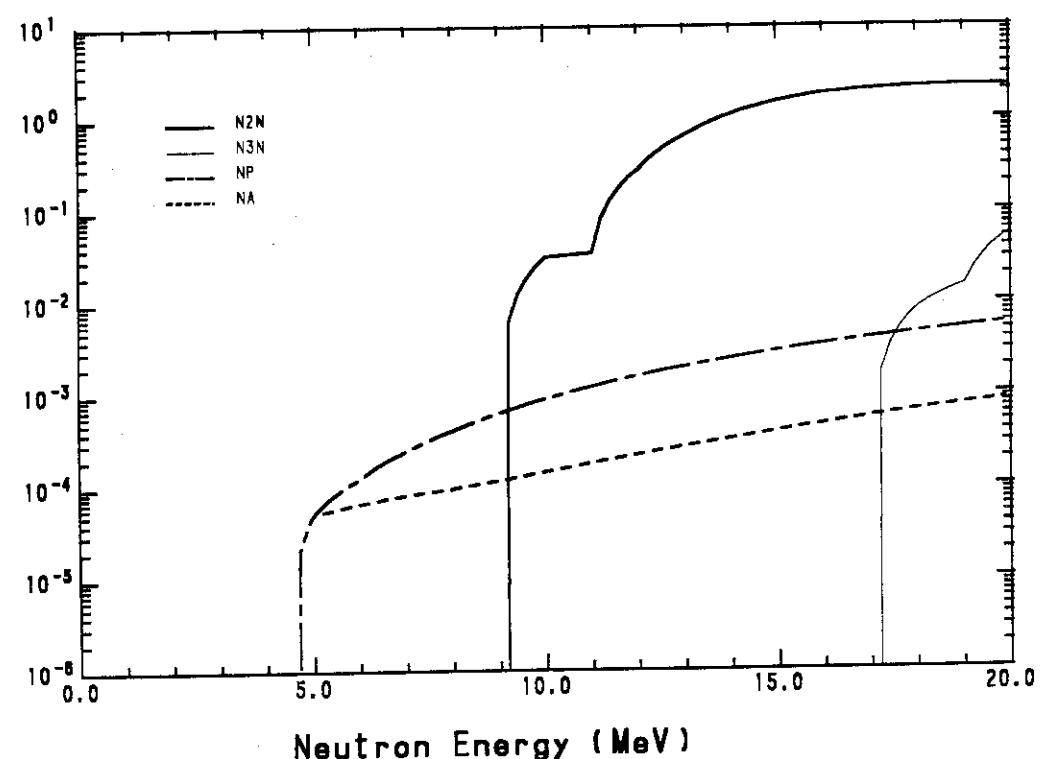
MAT=2721
MT = 4
51~55

^{174}Hf

(n, 2n)
 (n, 3n)
 (n, p)
 (n, α)

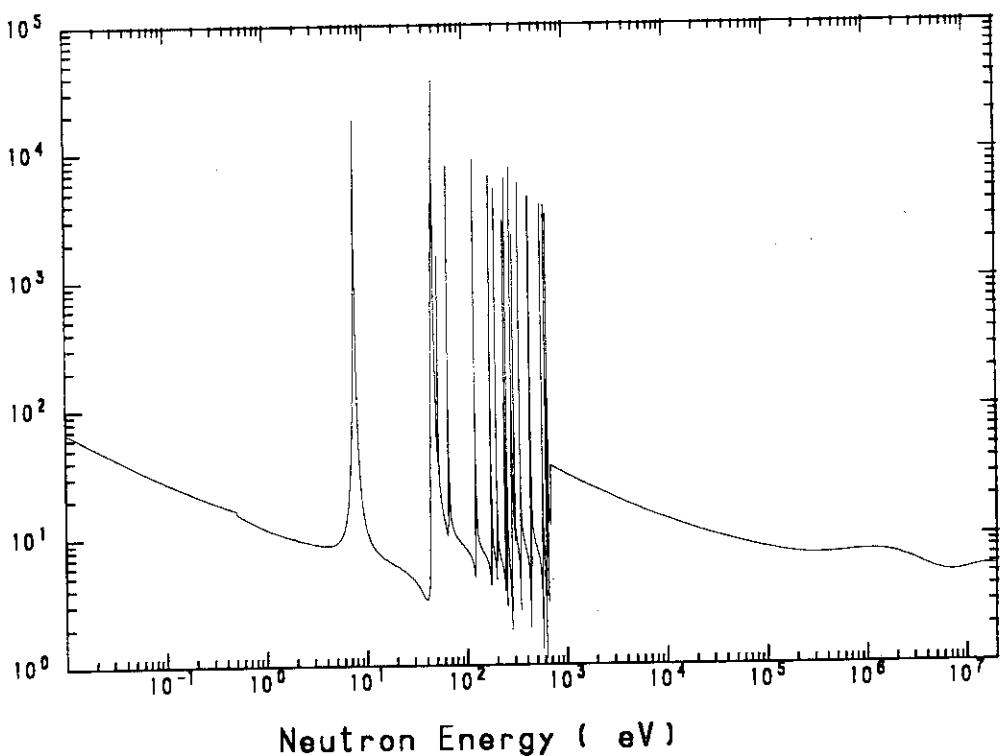
MAT=2721
 MT= 16
 17
 103
 107

Cross Section (barns)



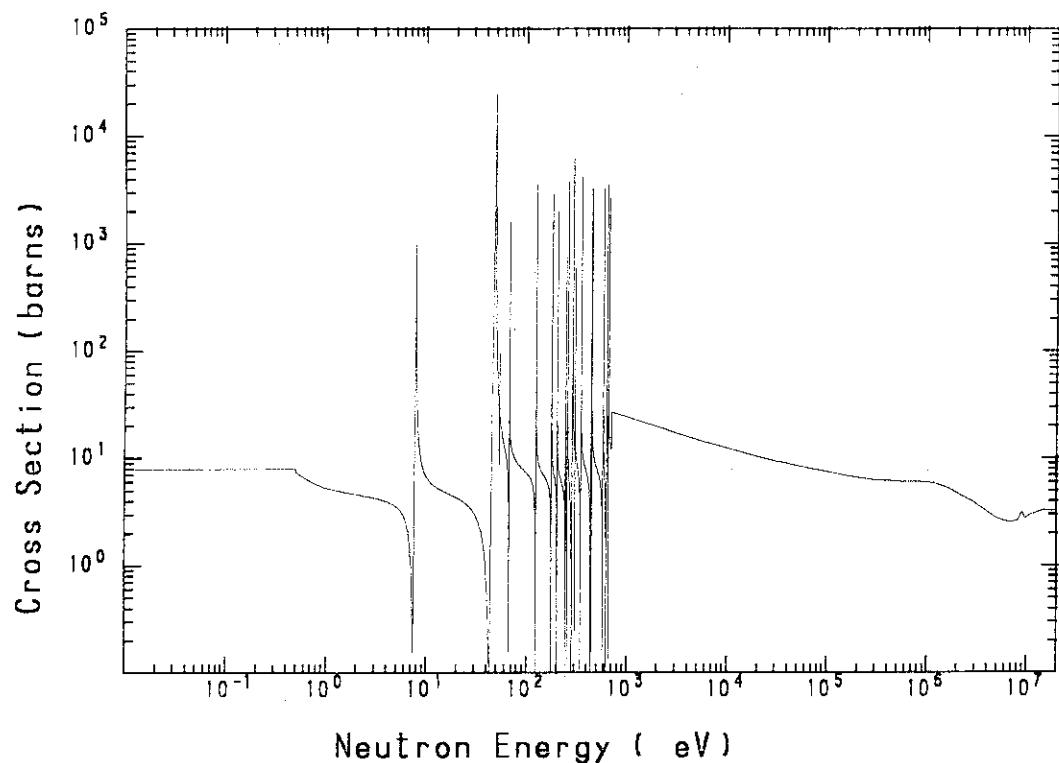
^{176}Hf
TOTAL

Cross Section (barns)



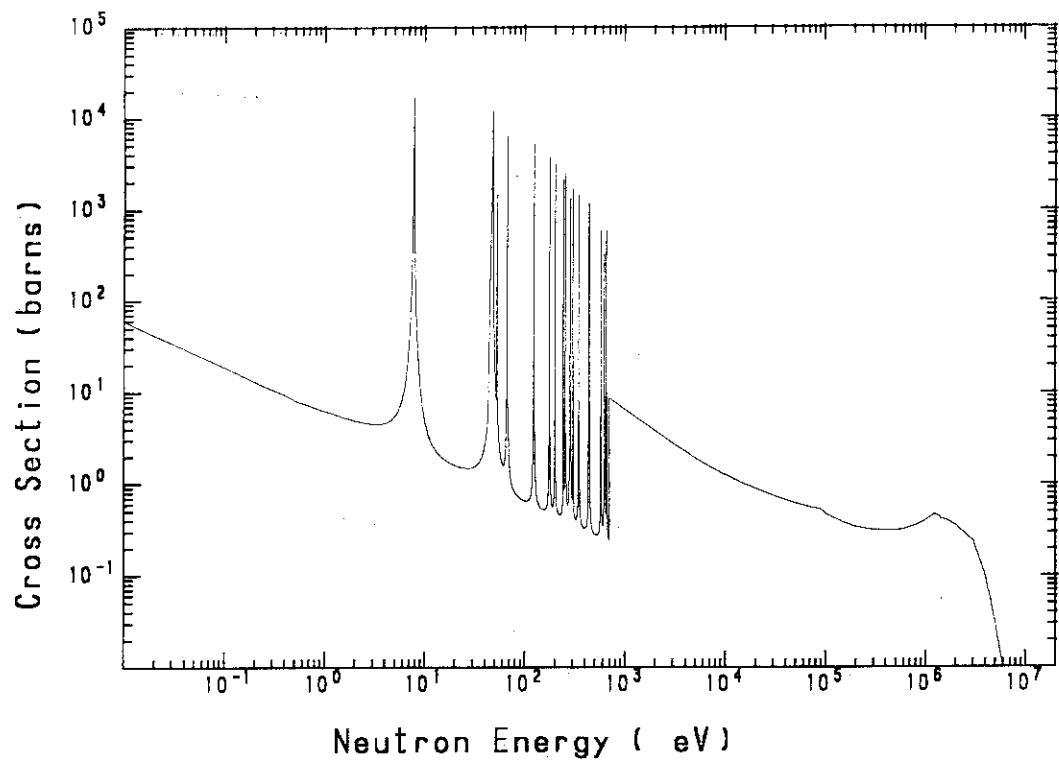
MAT=2722
 MT= 1

^{176}Hf
(n, n)



MAT=2722
MT= 2

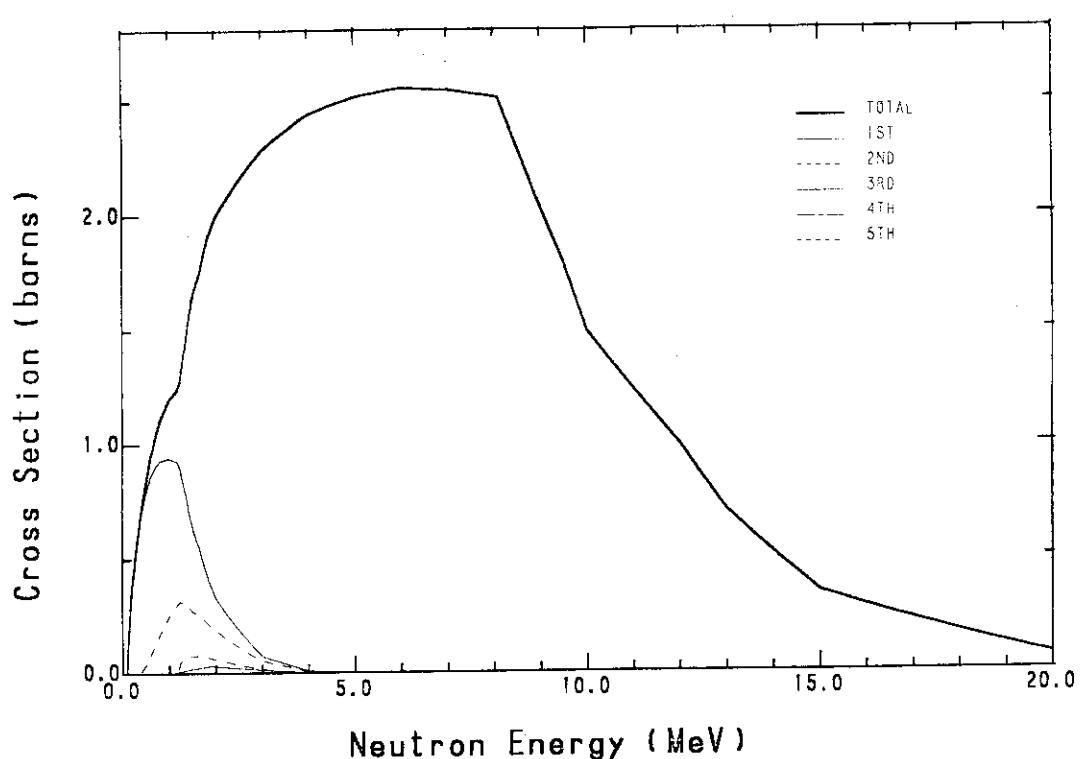
^{176}Hf
(n, γ)



MAT=2722
MT= 102

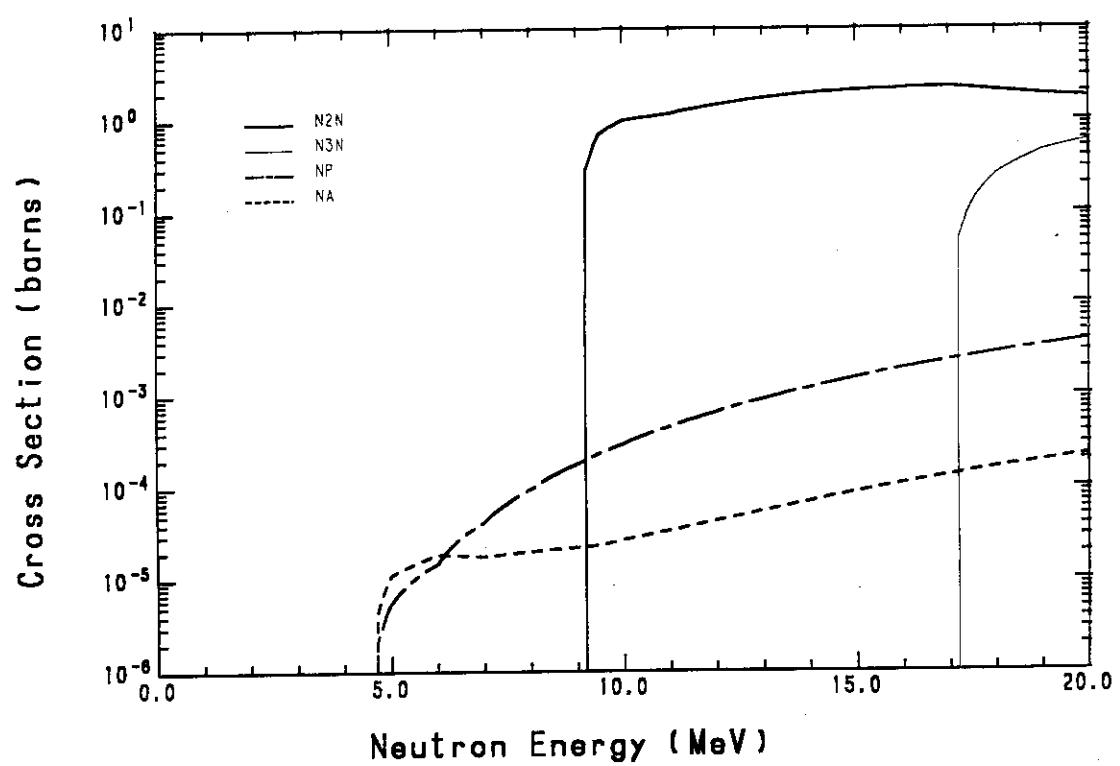
^{176}Hf
(n, n')

MAT=2722
MT= 4
51~55

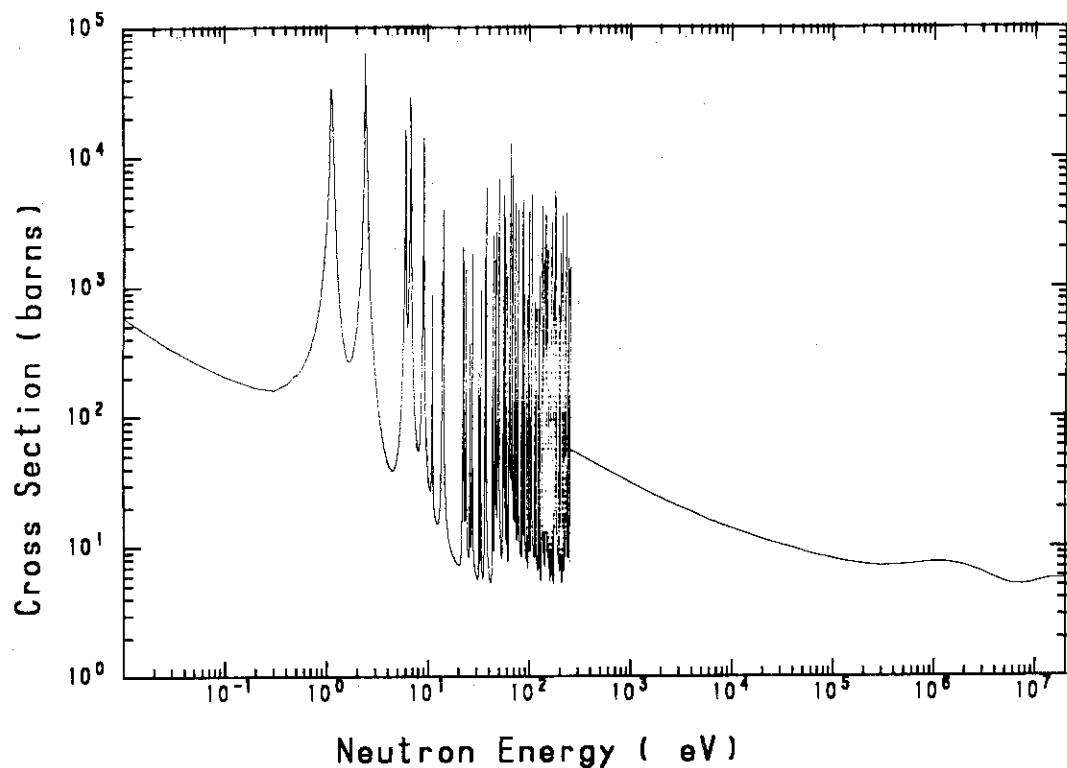


^{176}Hf
($n, 2n$)
($n, 3n$)
(n, p)
(n, α)

MAT=2722
MT= 16
17
103
107

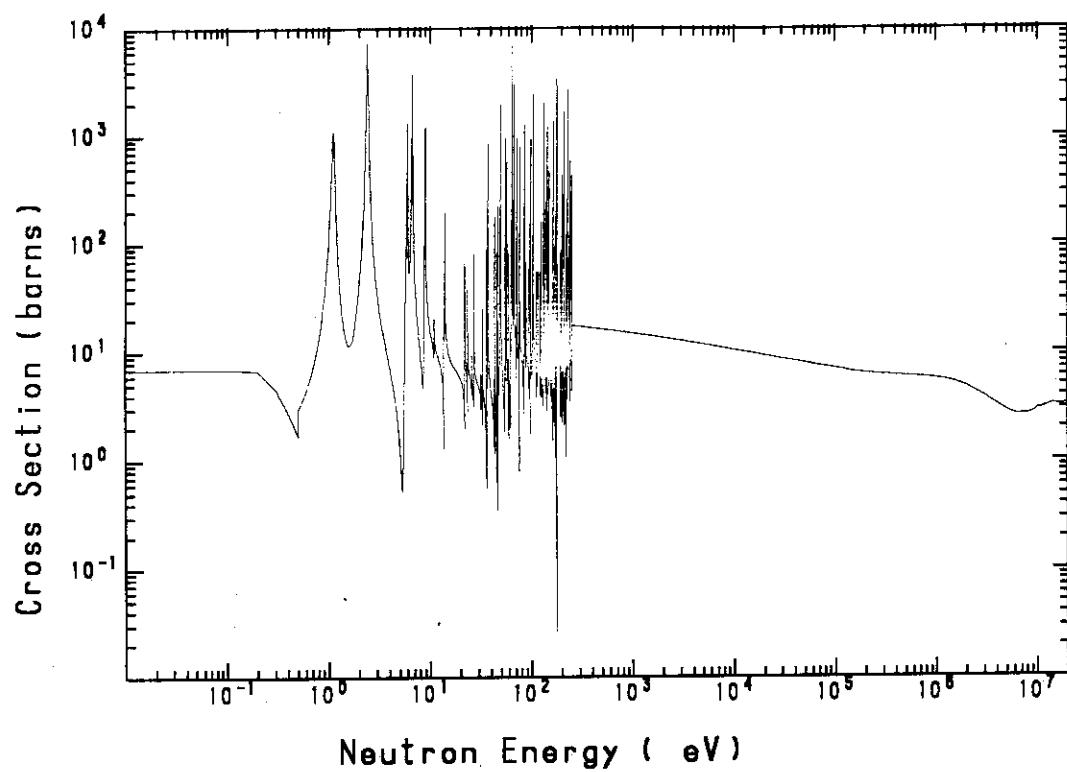


¹⁷⁷Hf
TOTAL



MAT=2723
MT= 1

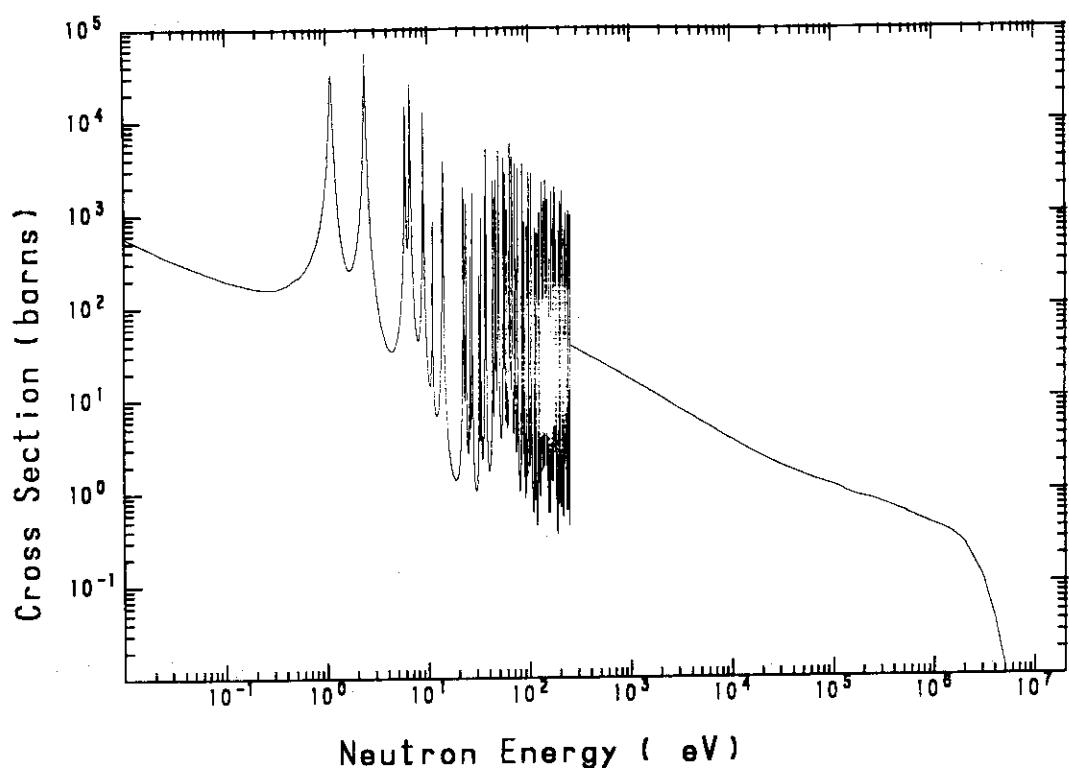
¹⁷⁷Hf
(n, n)



MAT=2723
MT= 2

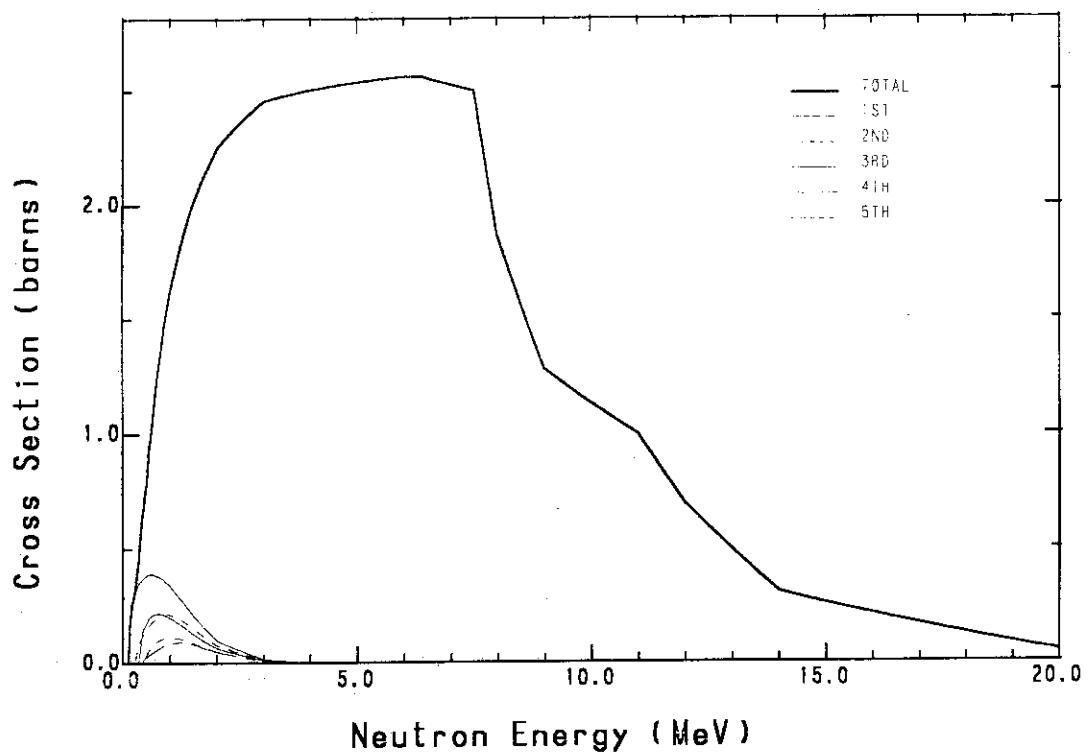
^{177}Hf
(n, γ)

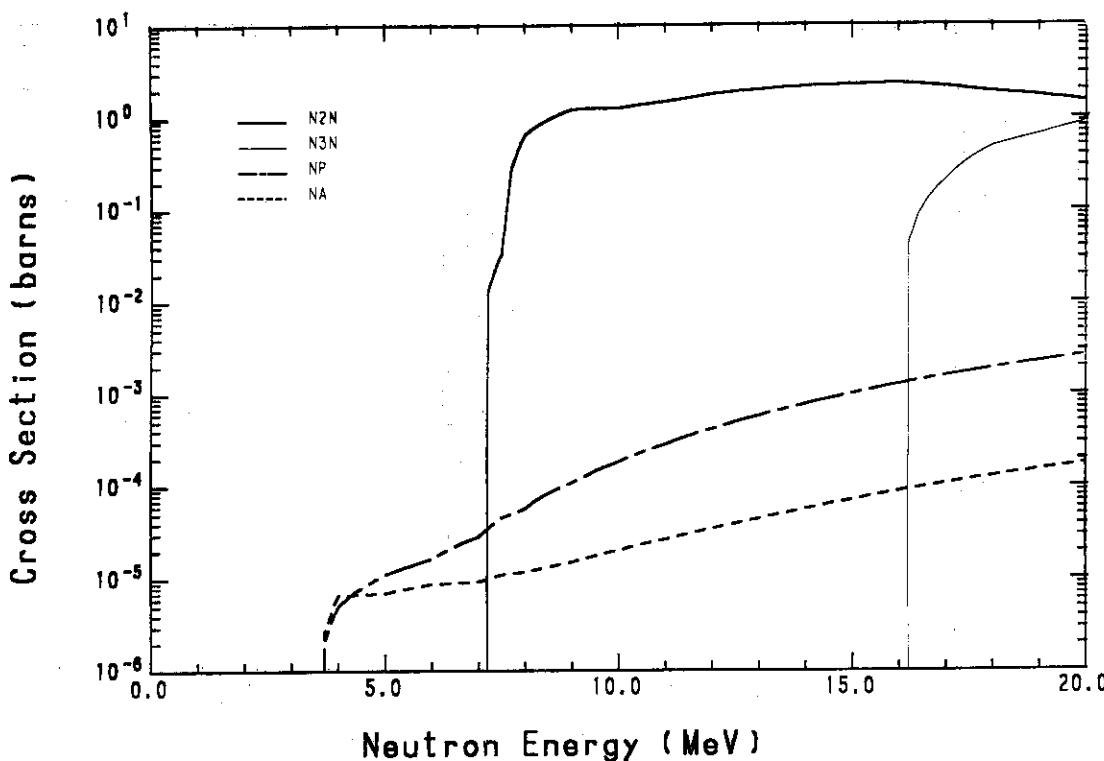
MAT=2723
MT= 102



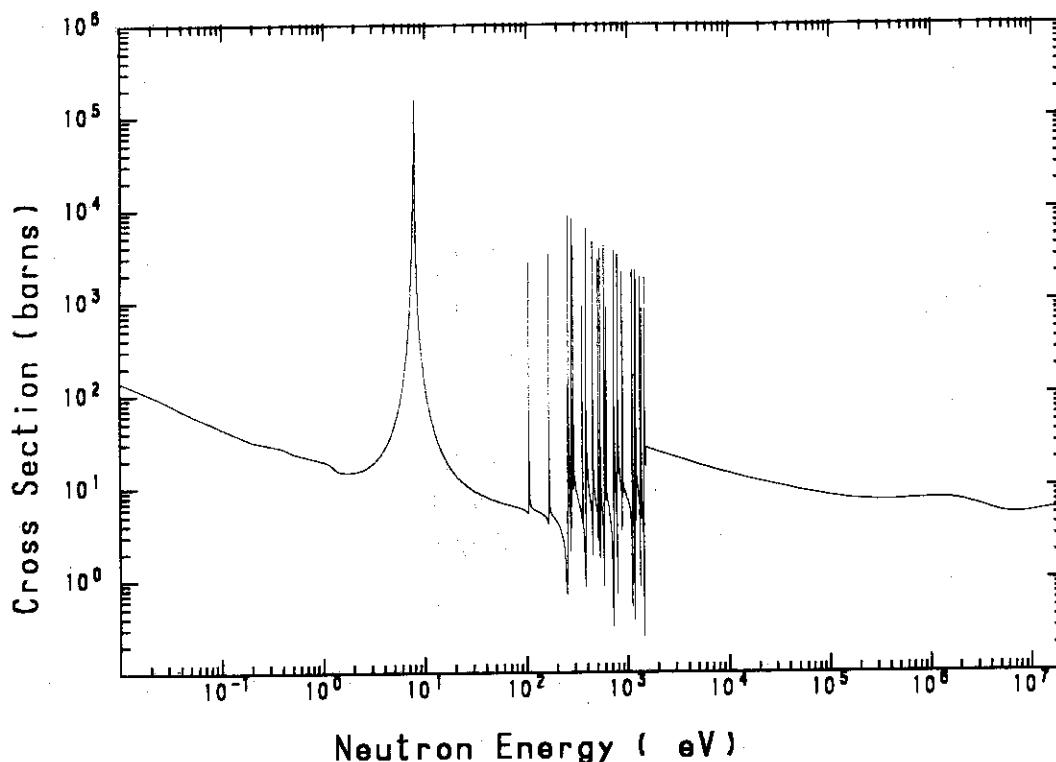
^{177}Hf
(n, n')

MAT=2723
MT= 4
51~55





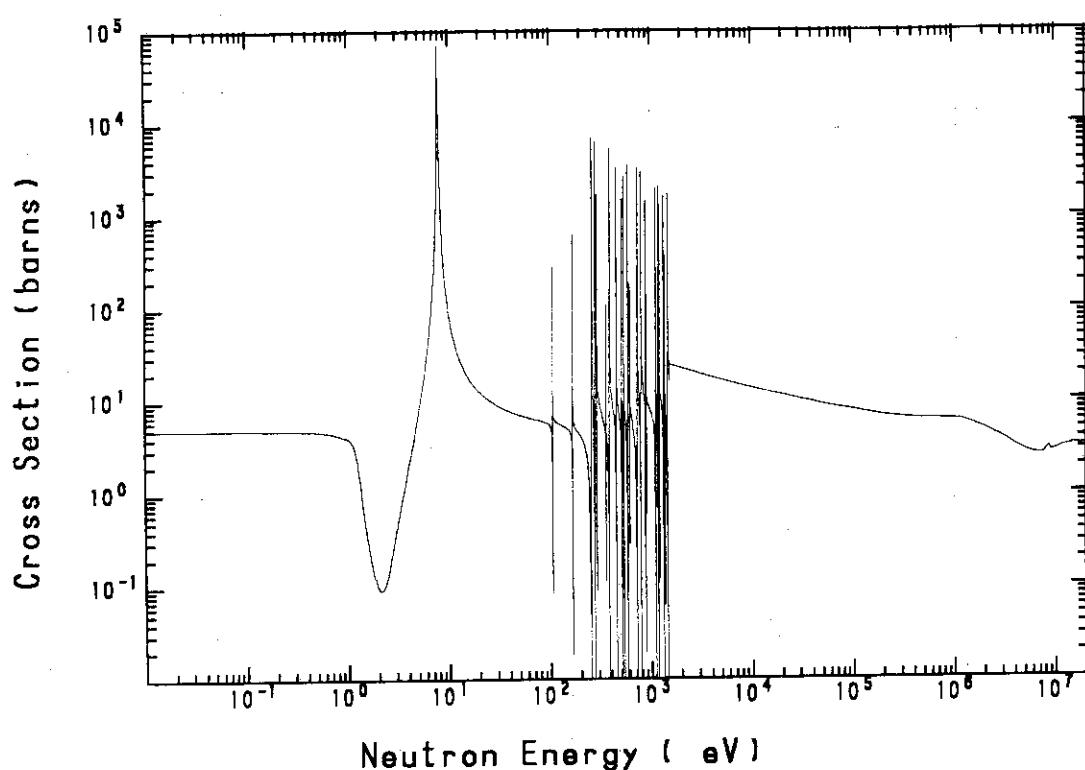
178 Hf
TOTAL



MAT=2724
MT= 1

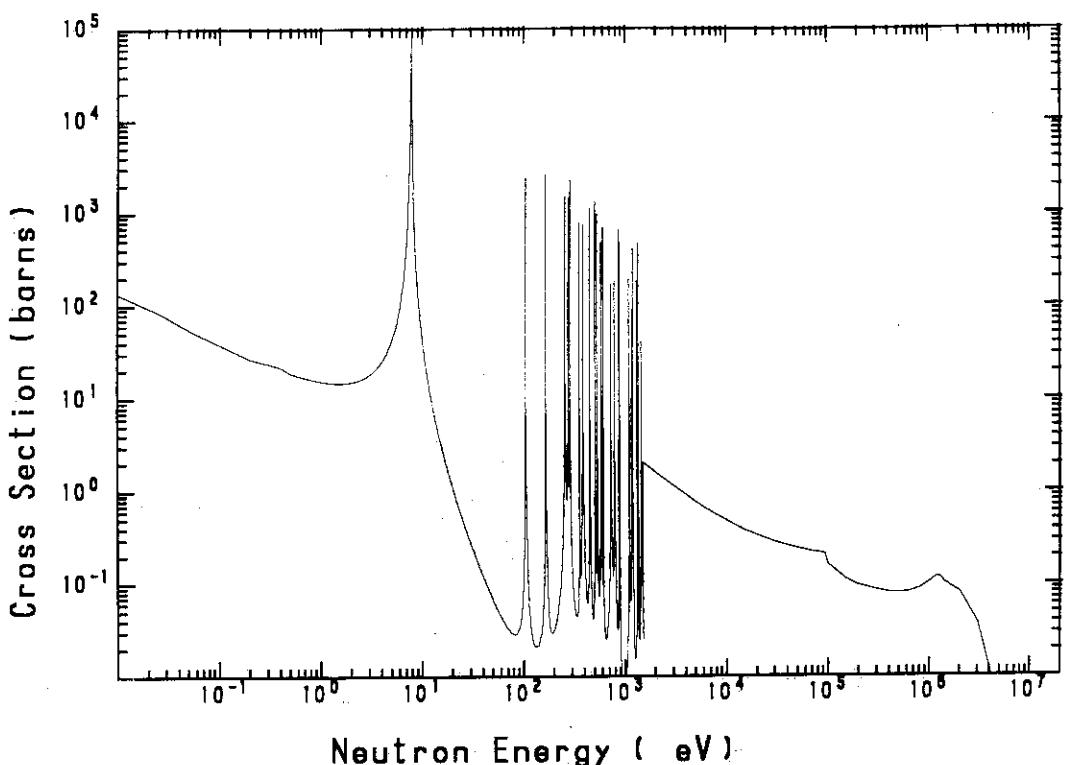
^{178}Hf
(n, n)

MAT=2724
MT= 2

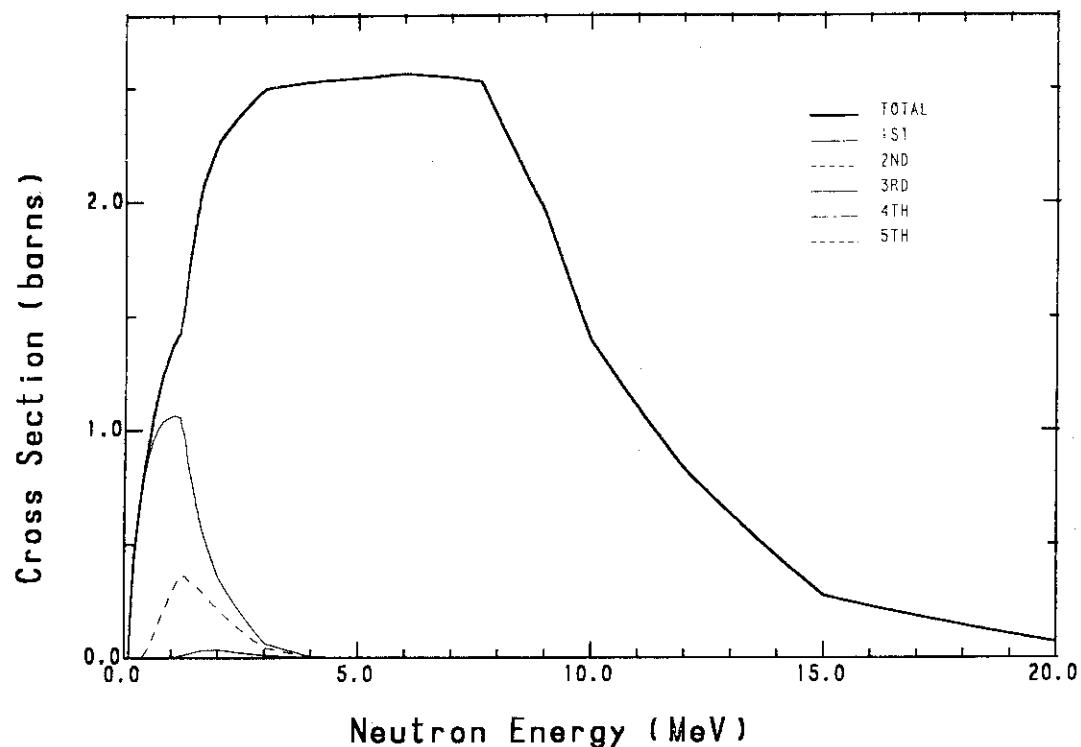


^{178}Hf
(n, γ)

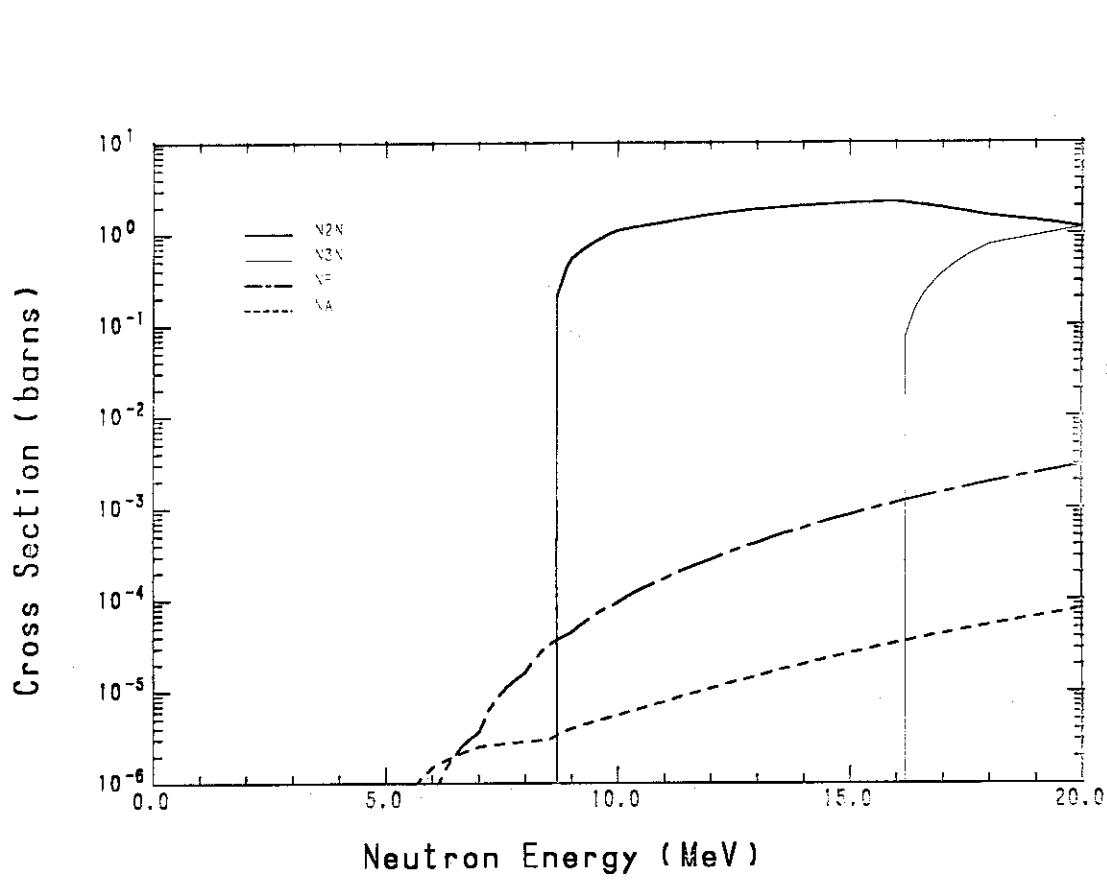
MAT=2724
MT= 102



^{178}Hf
 (n, n')



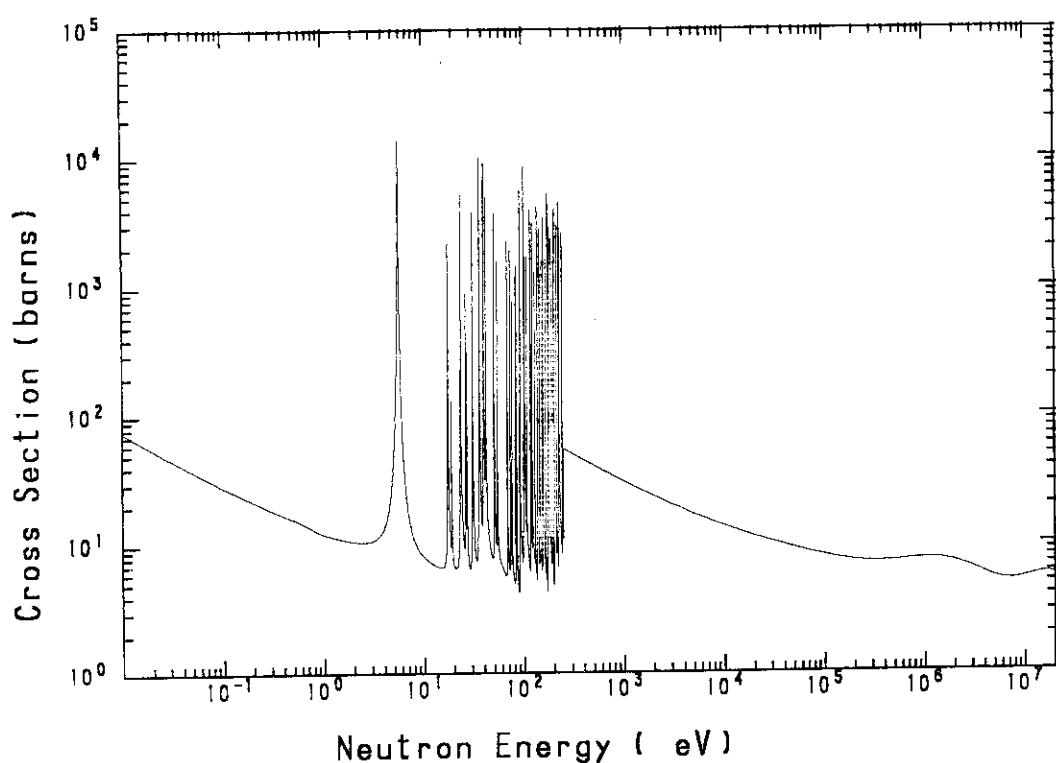
MAT=2724
MT= 4
51~55



MAT=2724
MT= 16
17
103
107

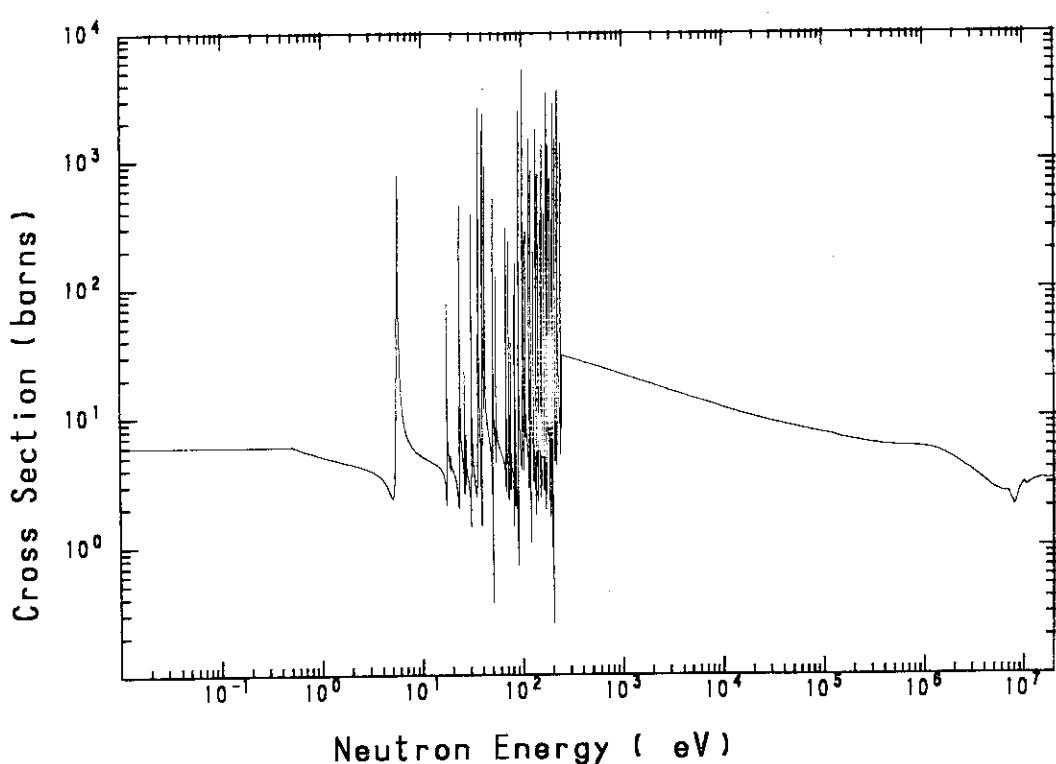
^{179}Hf
TOTAL

MAT=2725
MT= 1

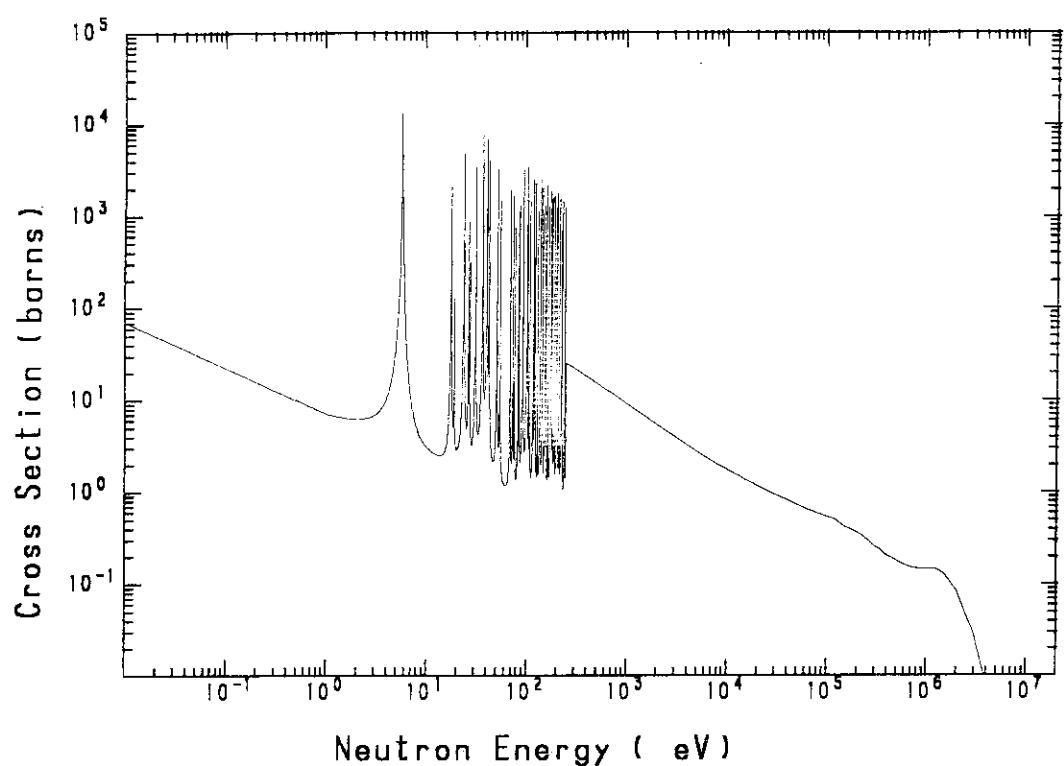


^{179}Hf
(n, n)

MAT=2725
MT= 2

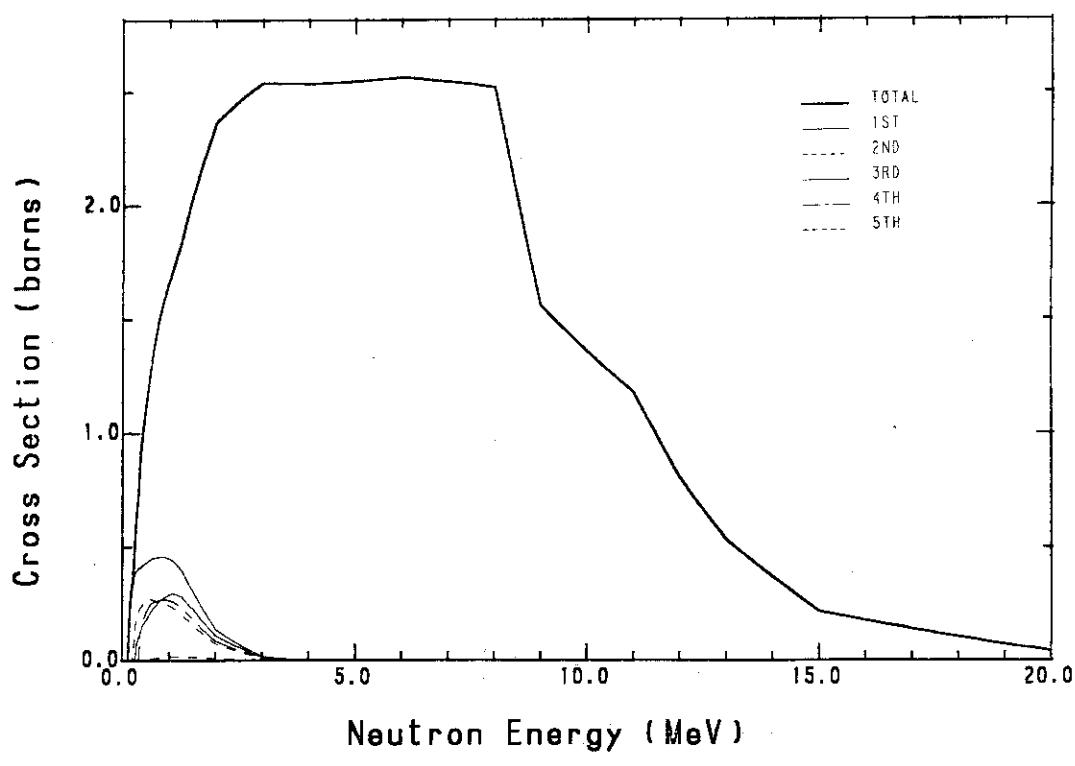


^{179}Hf
(n, γ)



MAT=2725
MT= 102

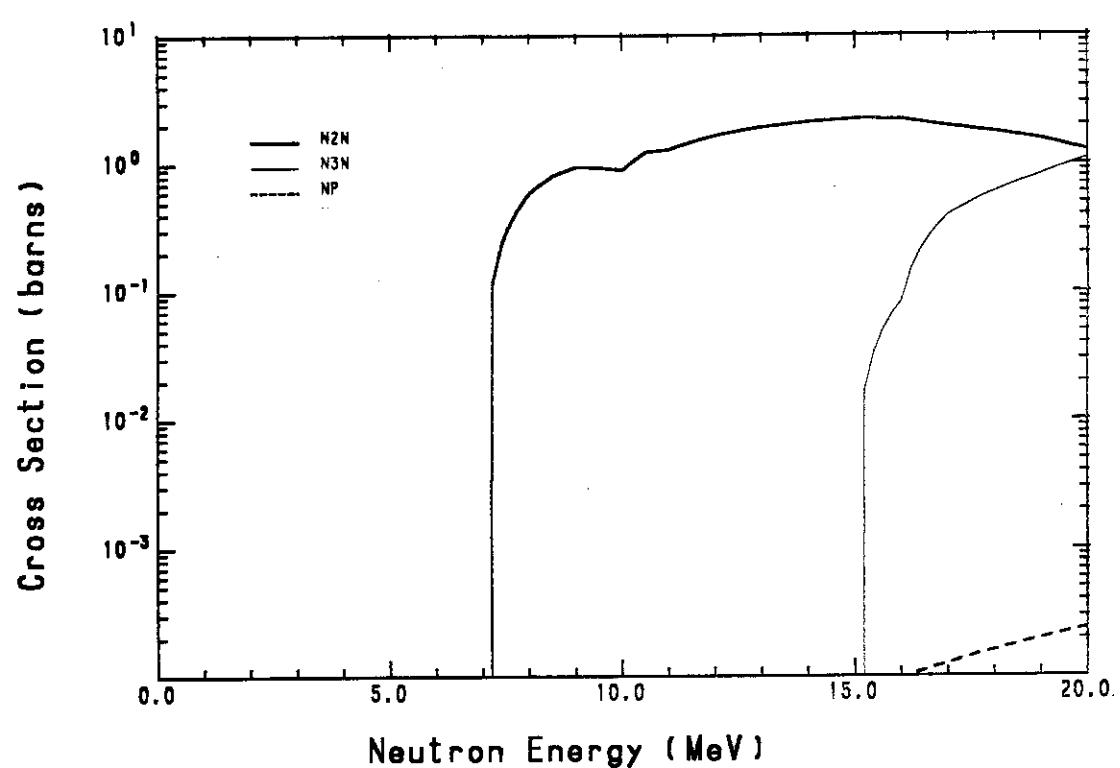
^{179}Hf
(n, n')



MAT=2725
MT= 4
51~55

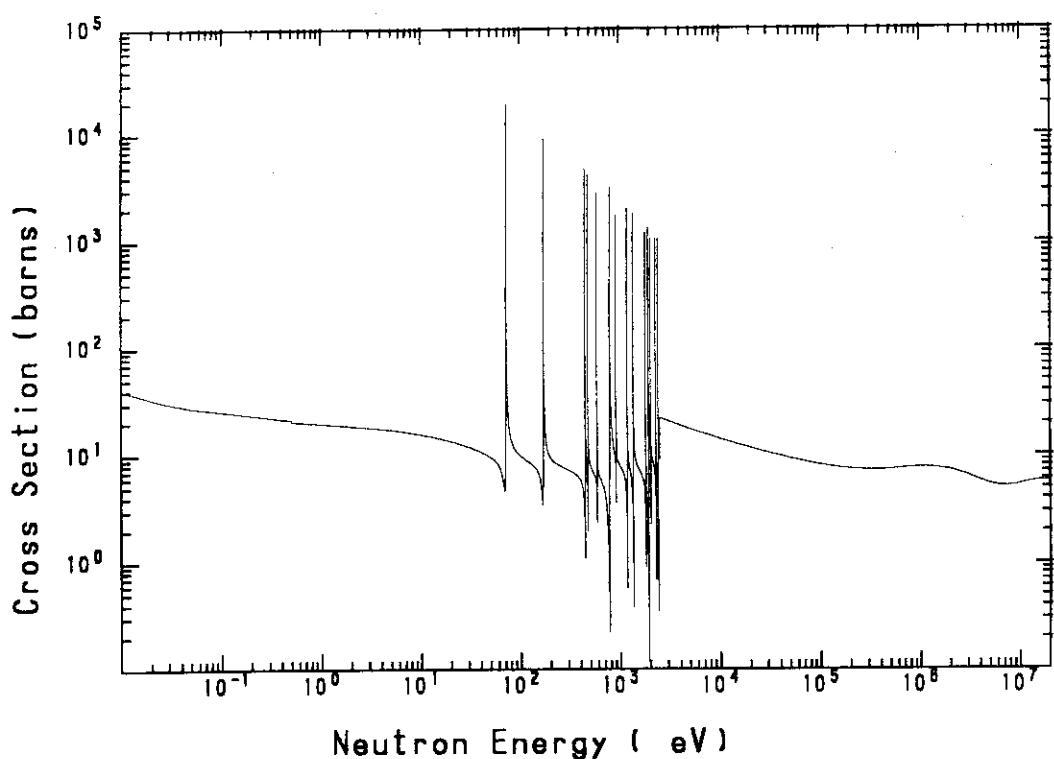
^{179}Hf
 $(n, 2n)$
 $(n, 3n)$
 (n, p)

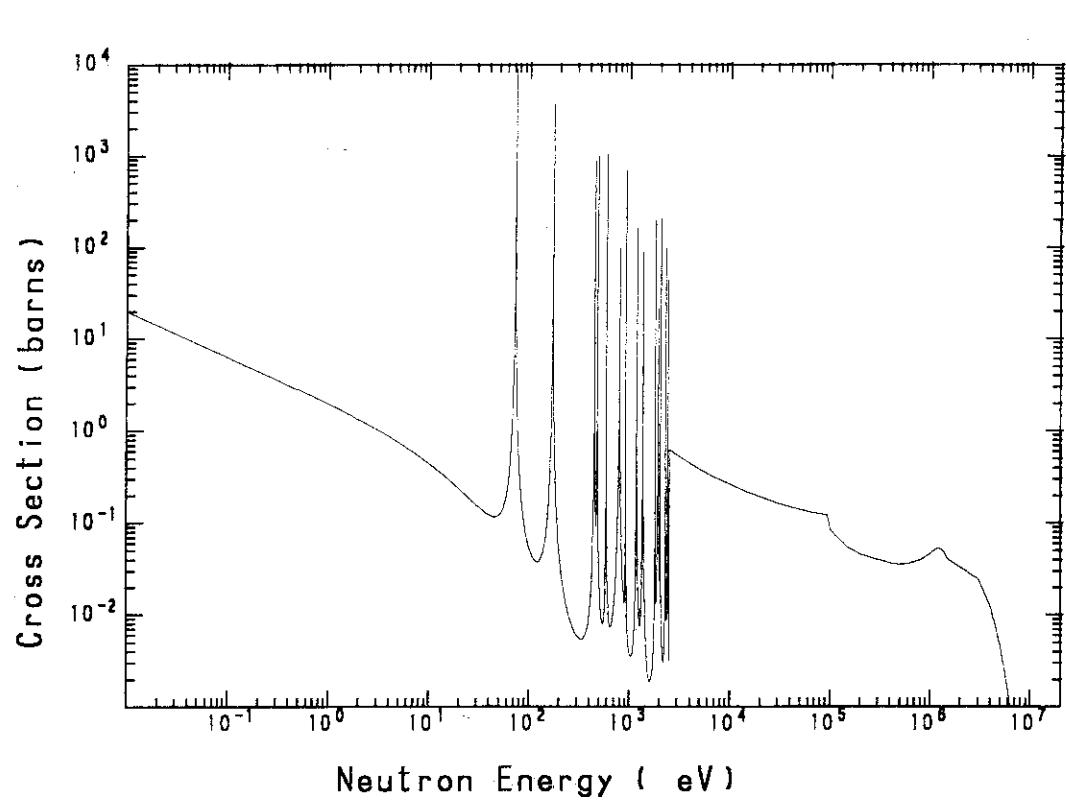
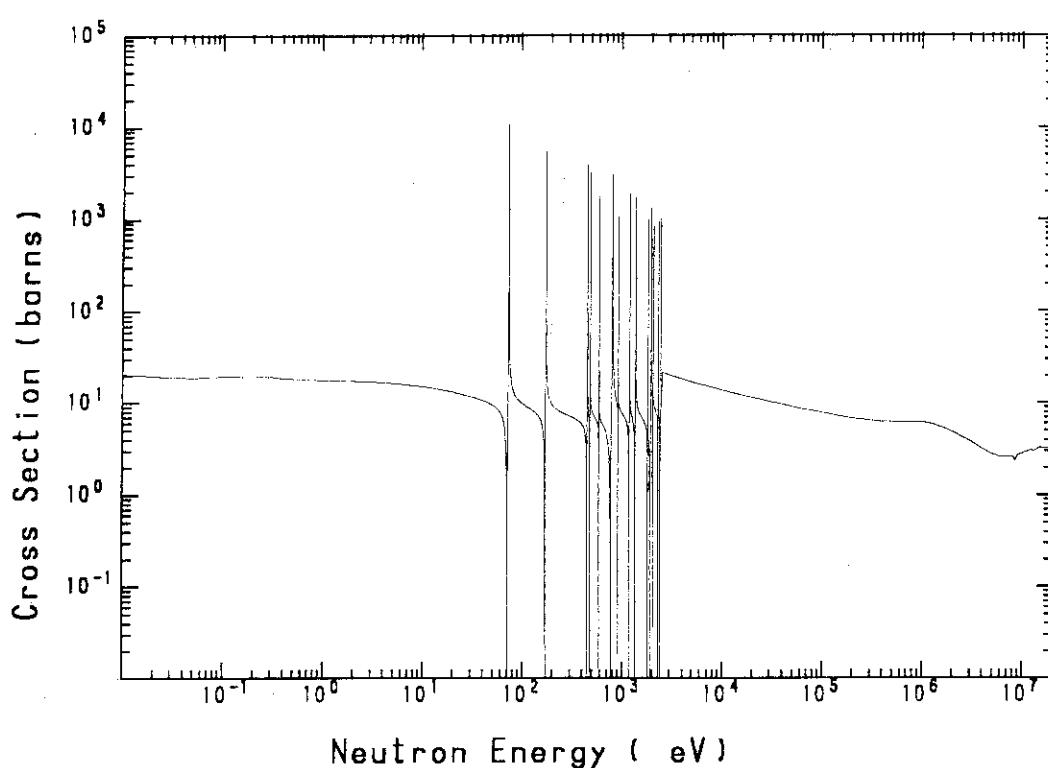
MAT=2725
MT= 16
17
103



^{180}Hf
TOTAL

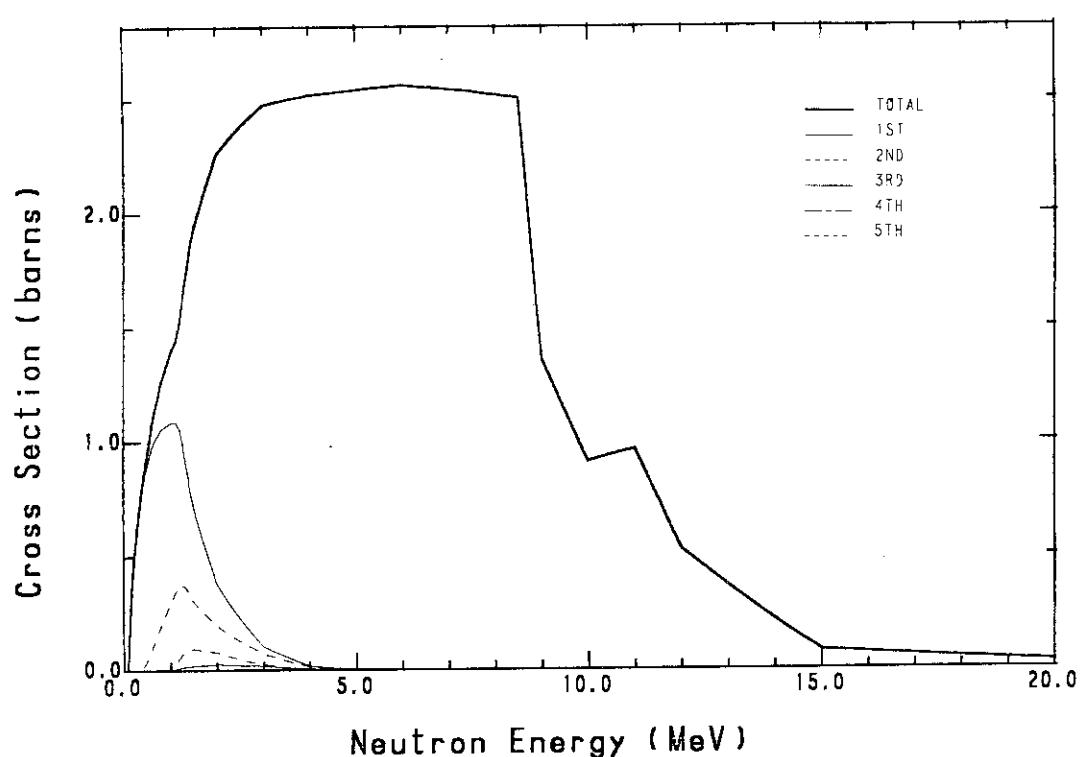
MAT=2726
MT= 1





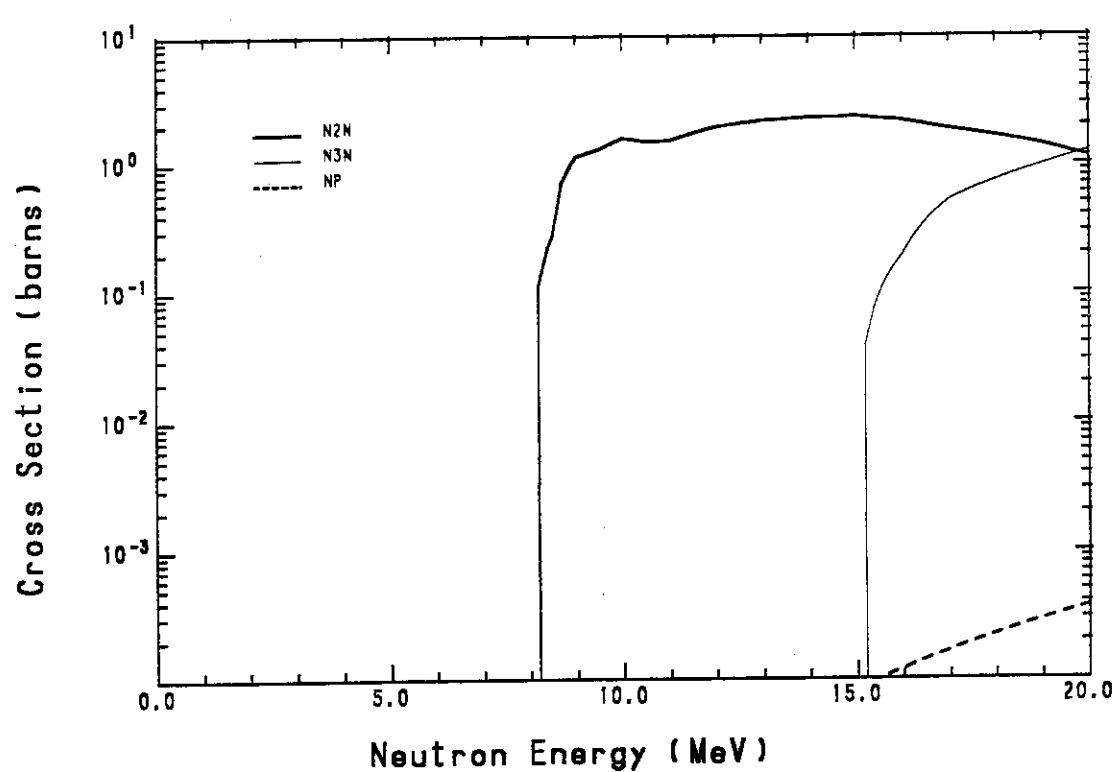
^{180}Hf
 (n, n')

MAT=2726
MT= 4
51~55

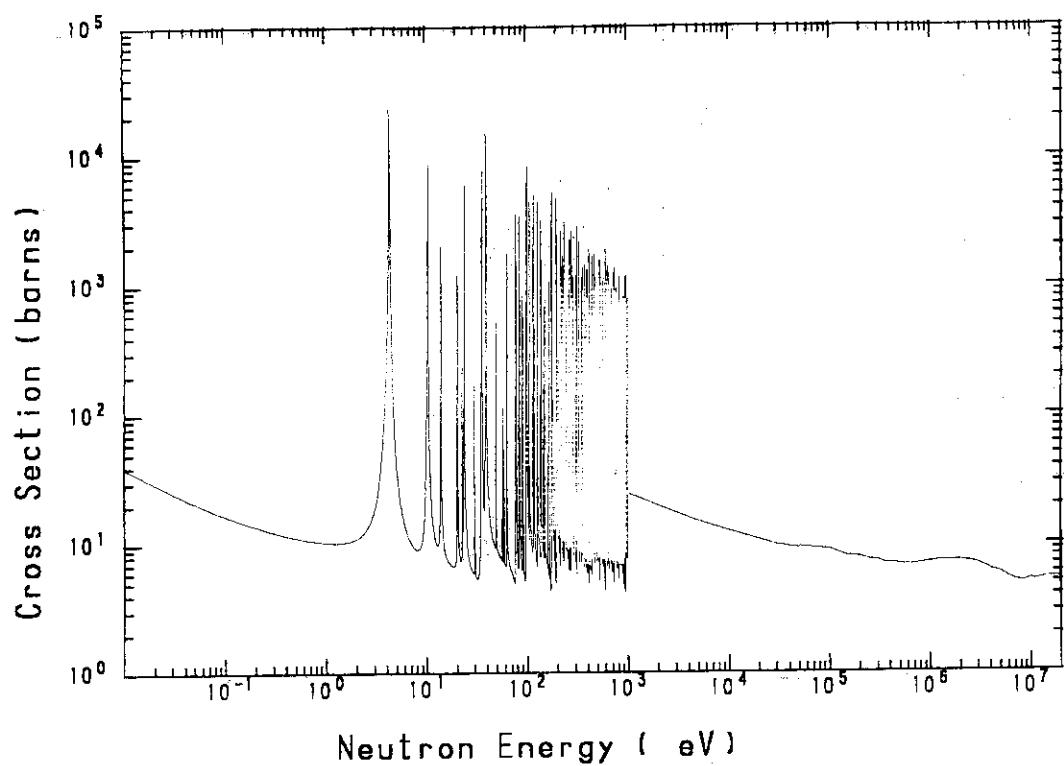


^{180}Hf
 $(n, 2n)$
 $(n, 3n)$
 (n, p)

MAT=2726
MT= 16
17
103

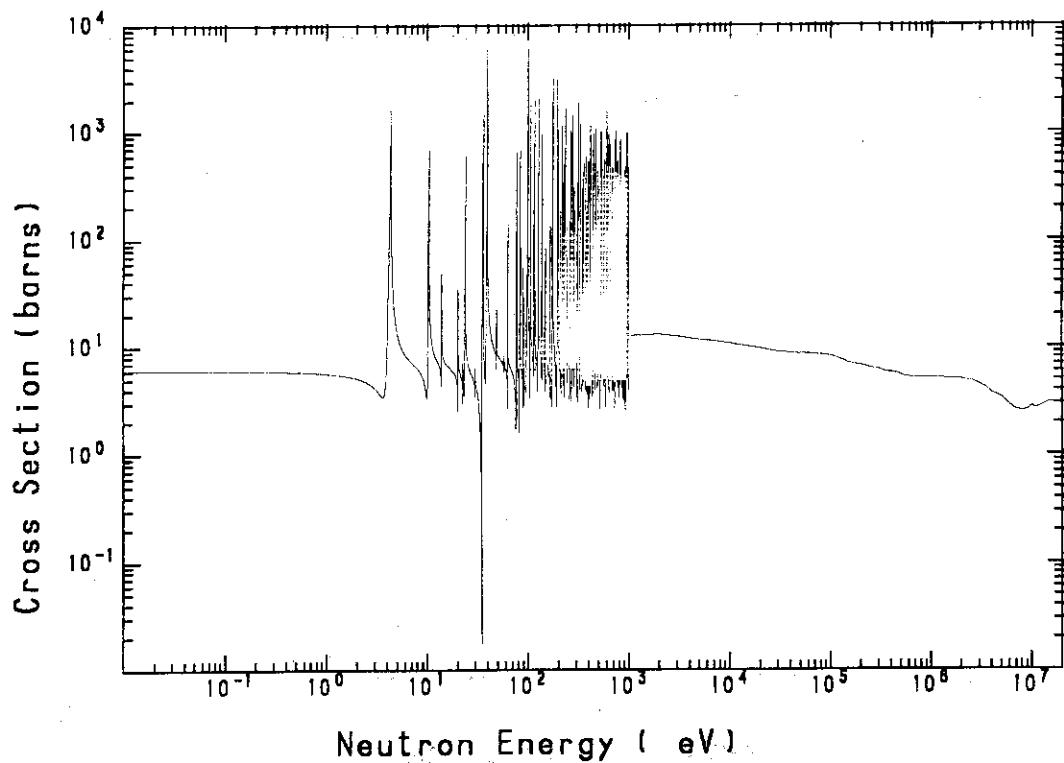


¹⁸¹Ta
TOTAL



MAT=2731
MT= 1

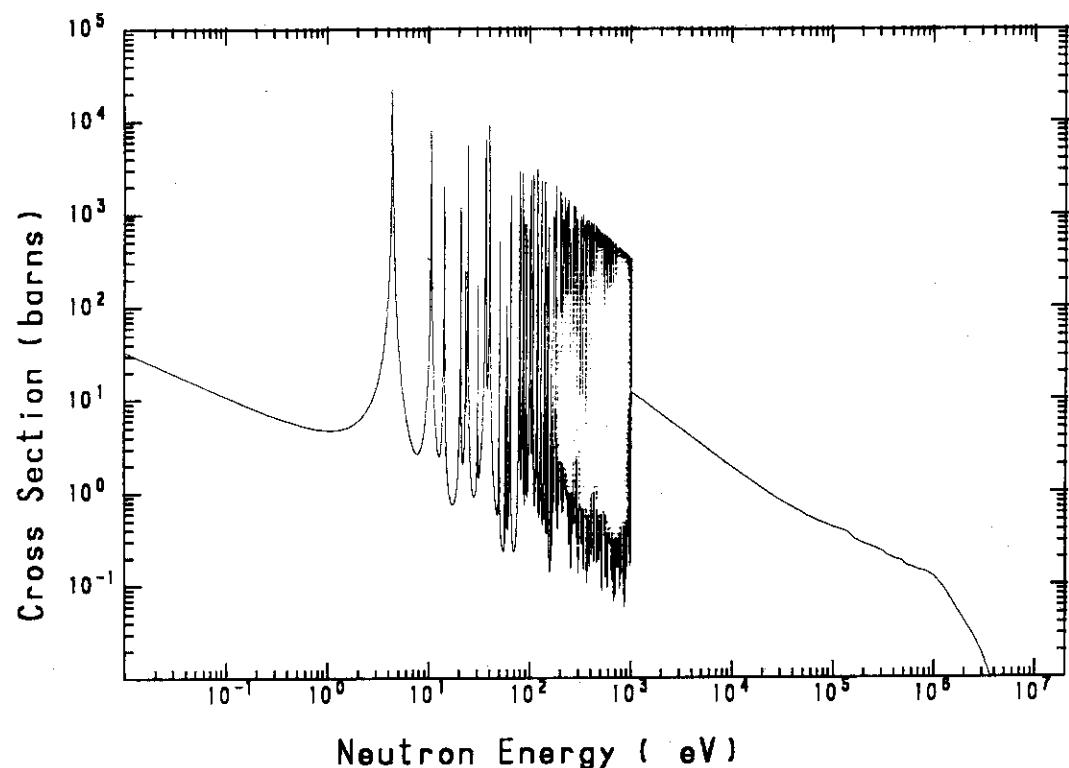
¹⁸¹Ta
(n, n)



MAT=2731
MT= 2

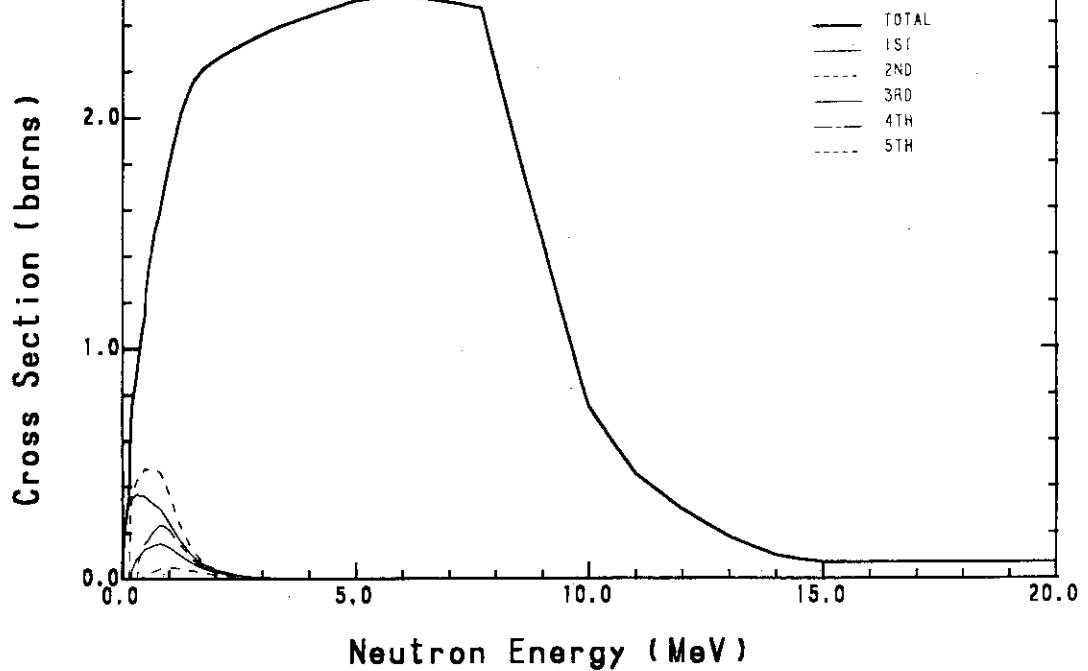
^{181}Ta
(n, γ)

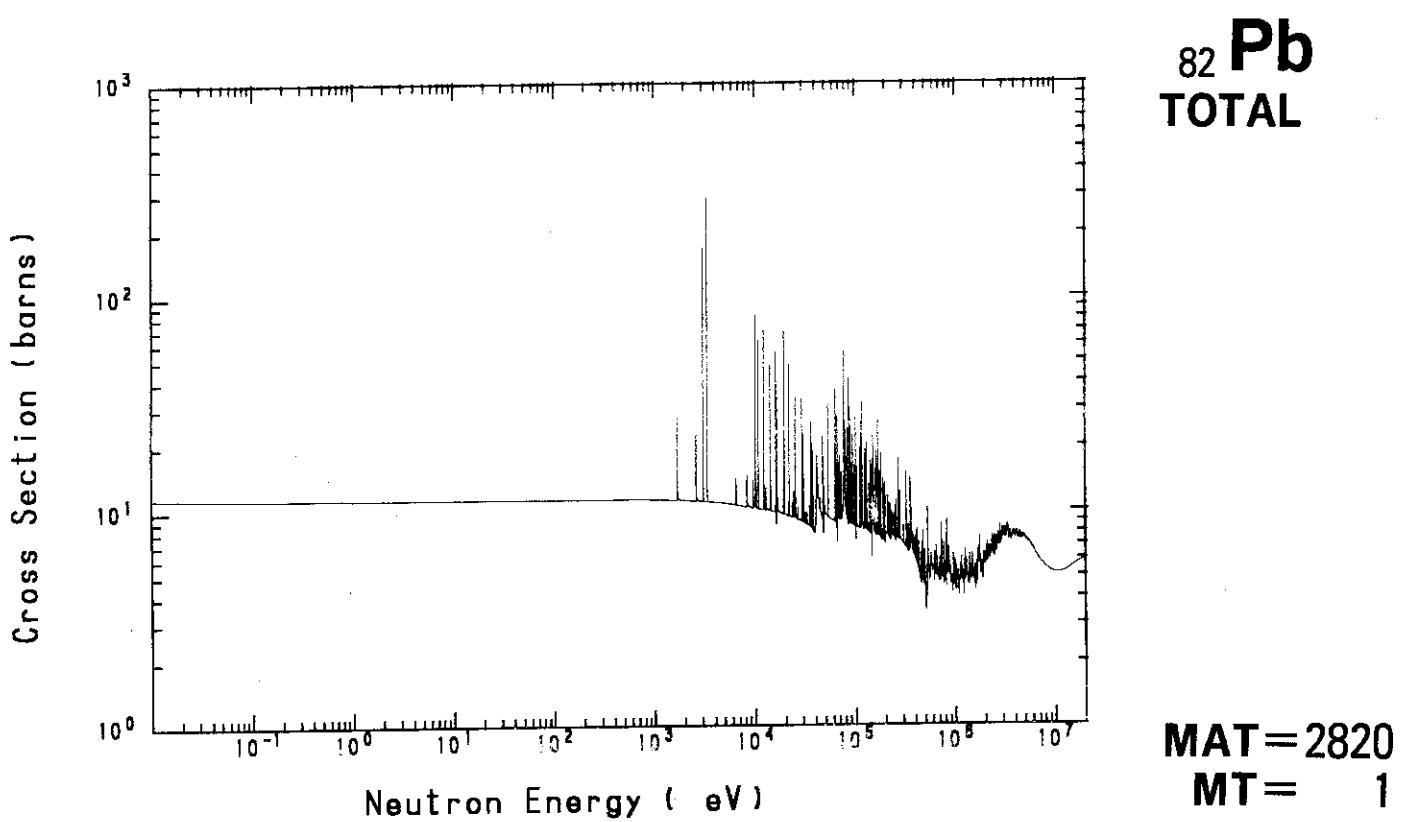
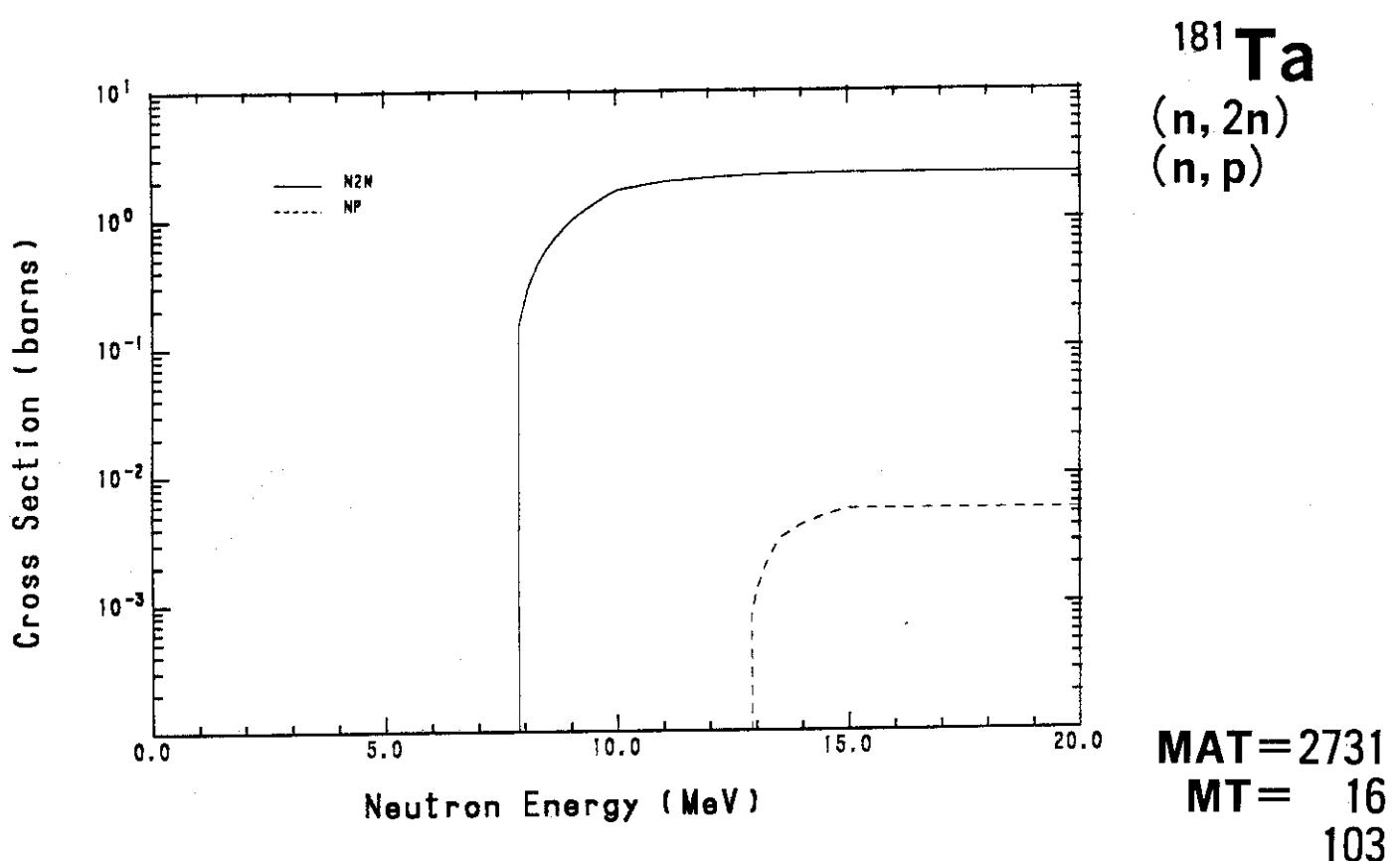
MAT=2731
MT= 102



^{181}Ta
(n, n')

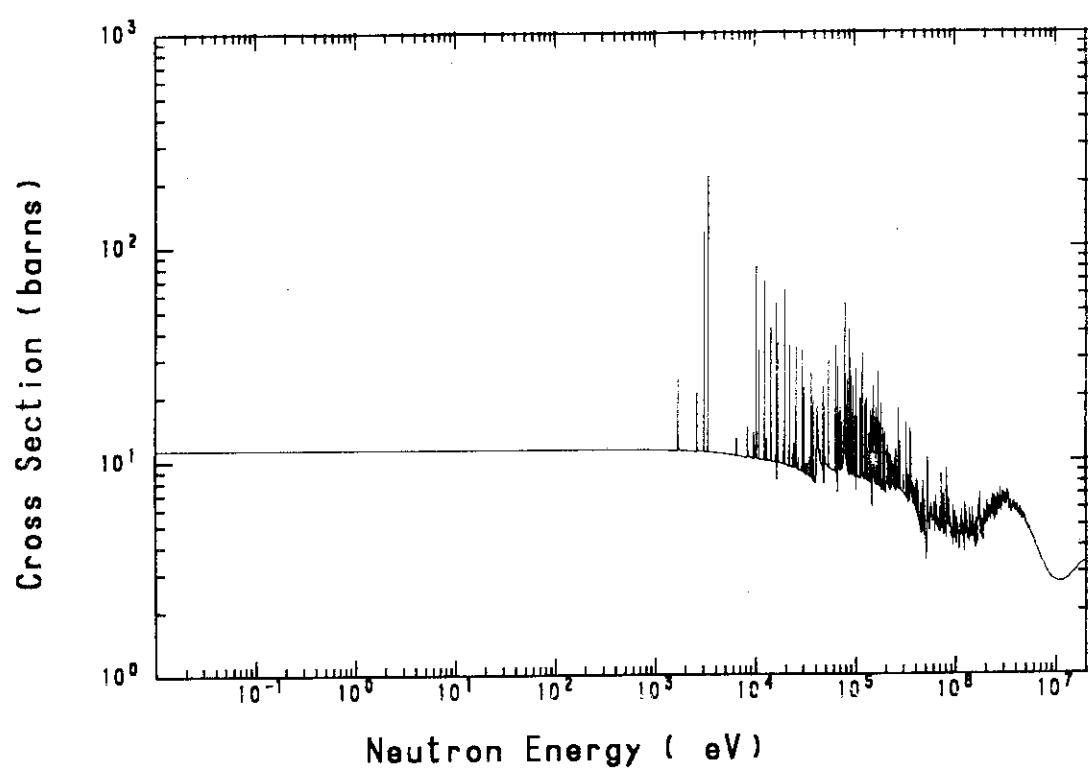
MAT=2731
MT= 4
51~55





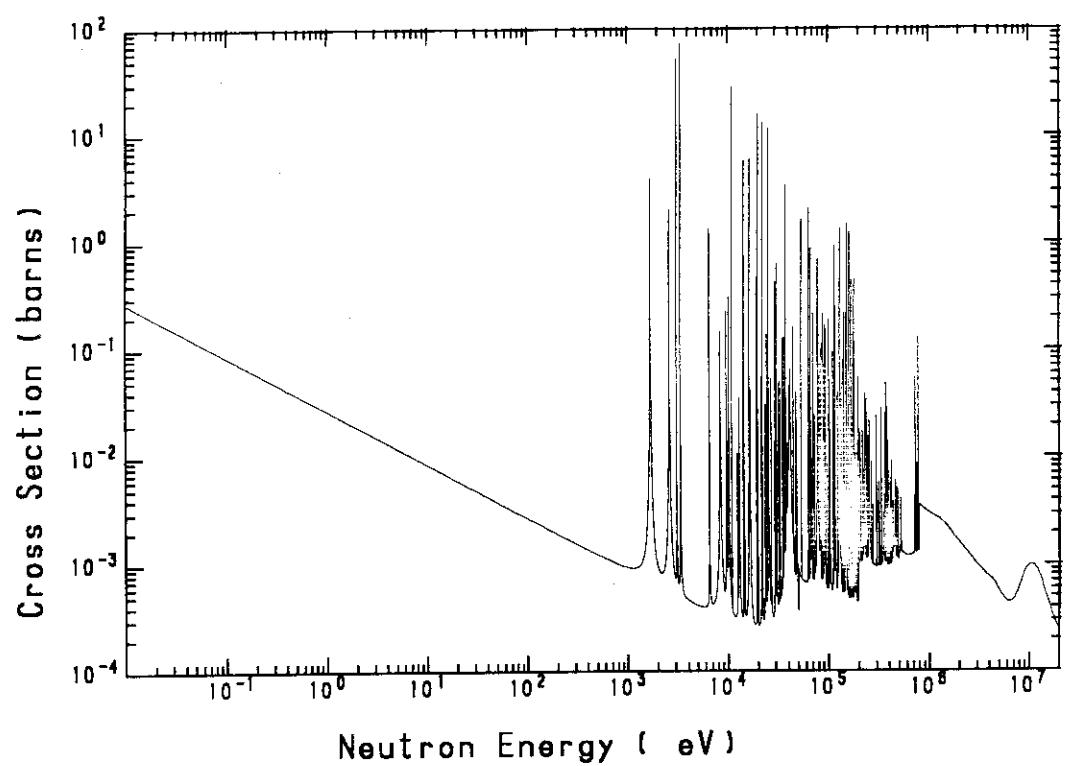
^{82}Pb
(n, n)

MAT=2820
MT= 2

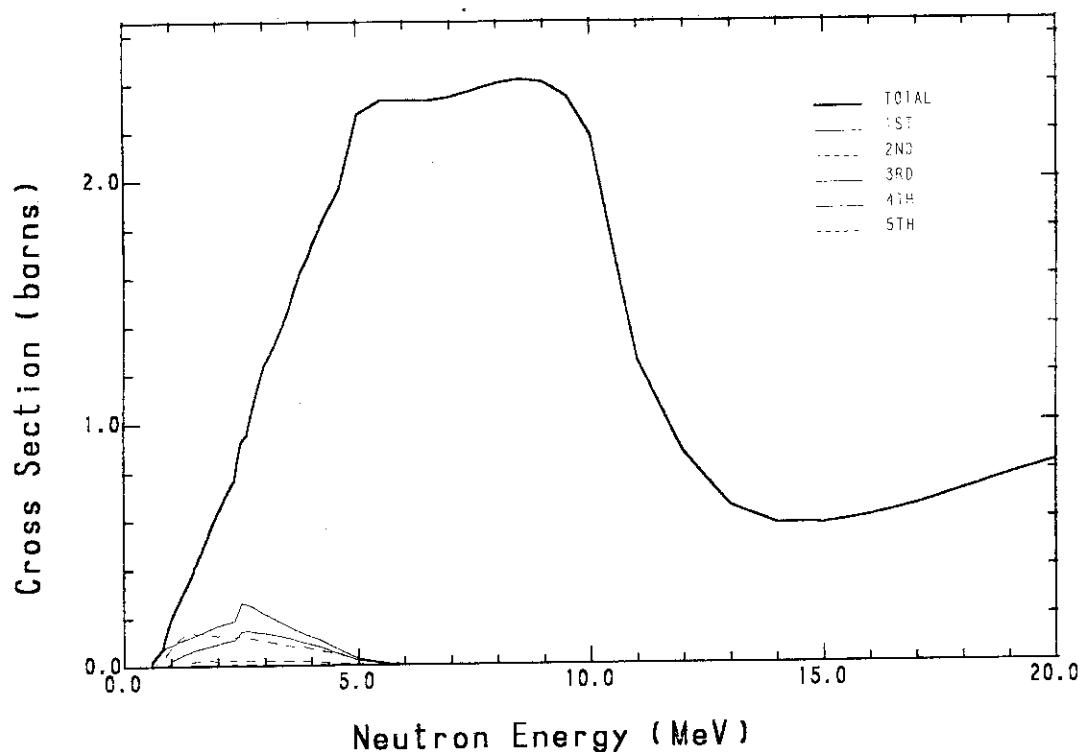


^{82}Pb
(n, γ)

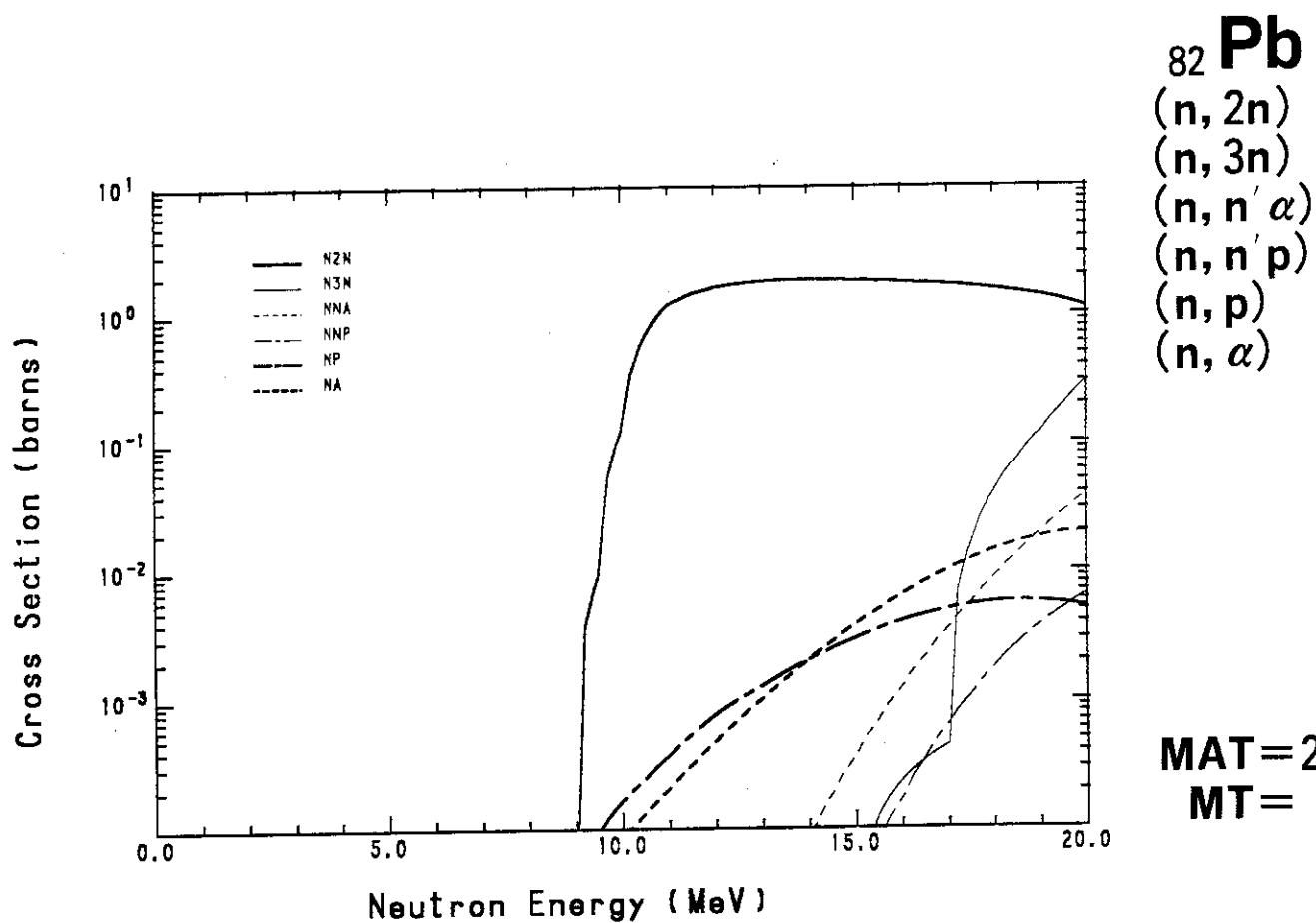
MAT=2820
MT= 102



^{82}Pb
 (n, n')

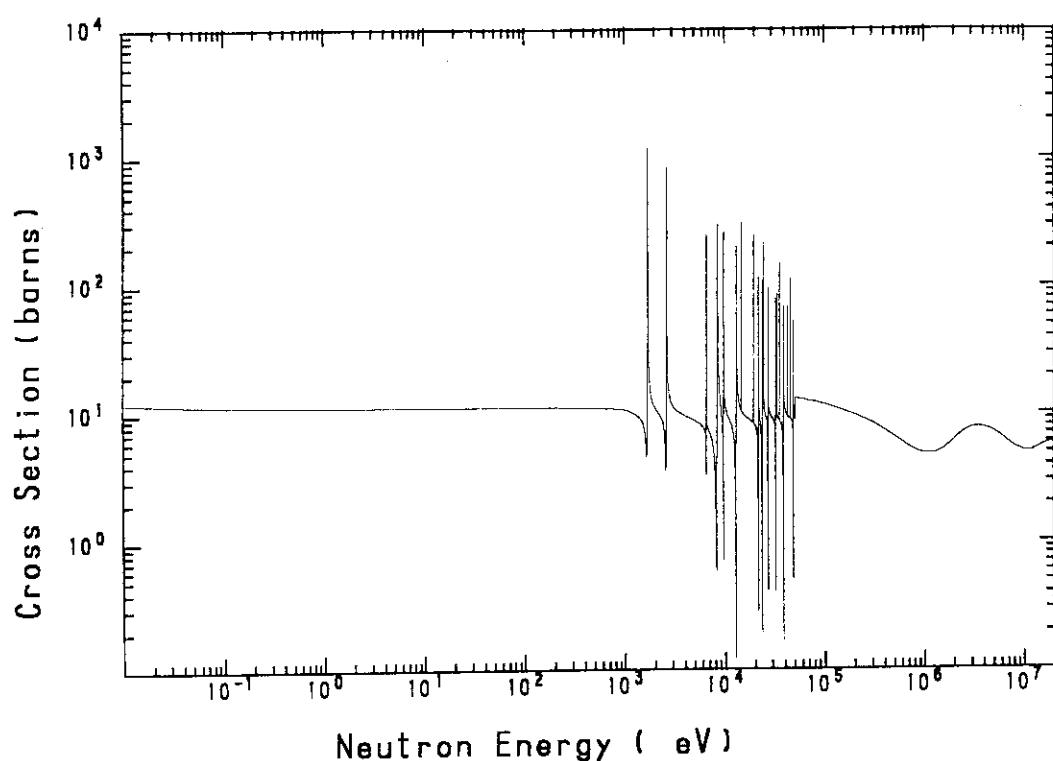


MAT=2820
MT= 4
51~55



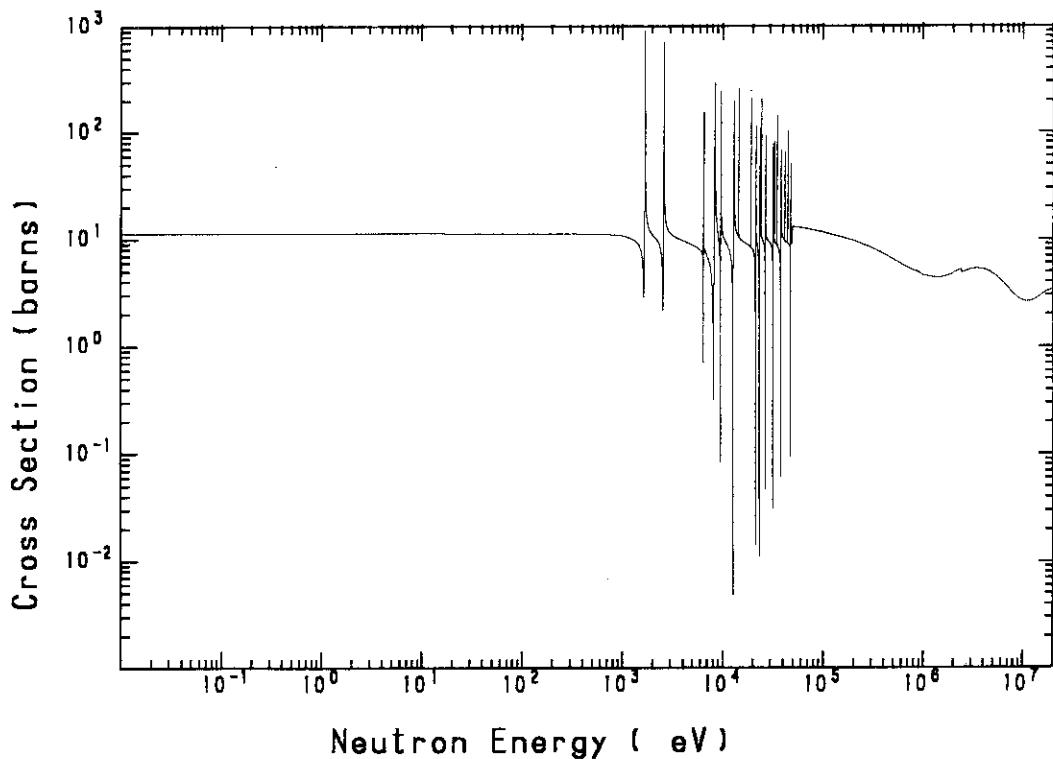
MAT=2820
MT= 16
17
22
28
103
107

^{204}Pb
TOTAL

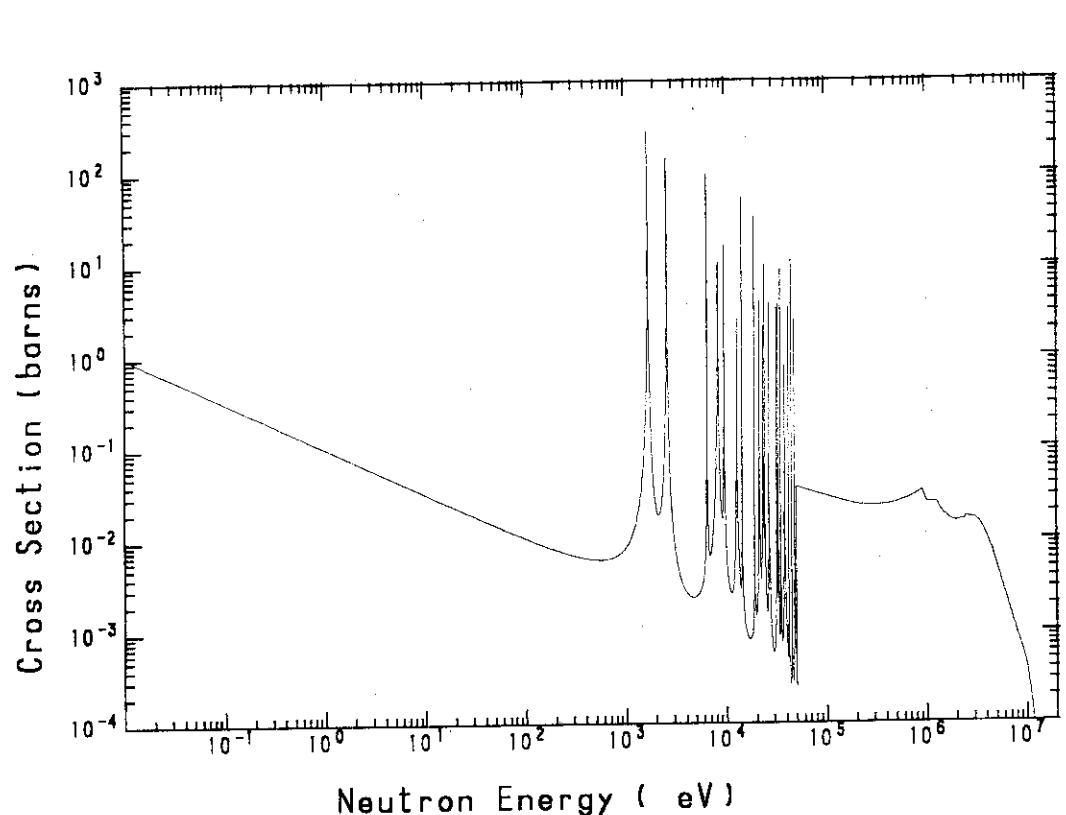


MAT=2821
MT= 1

^{204}Pb
 (n, n)

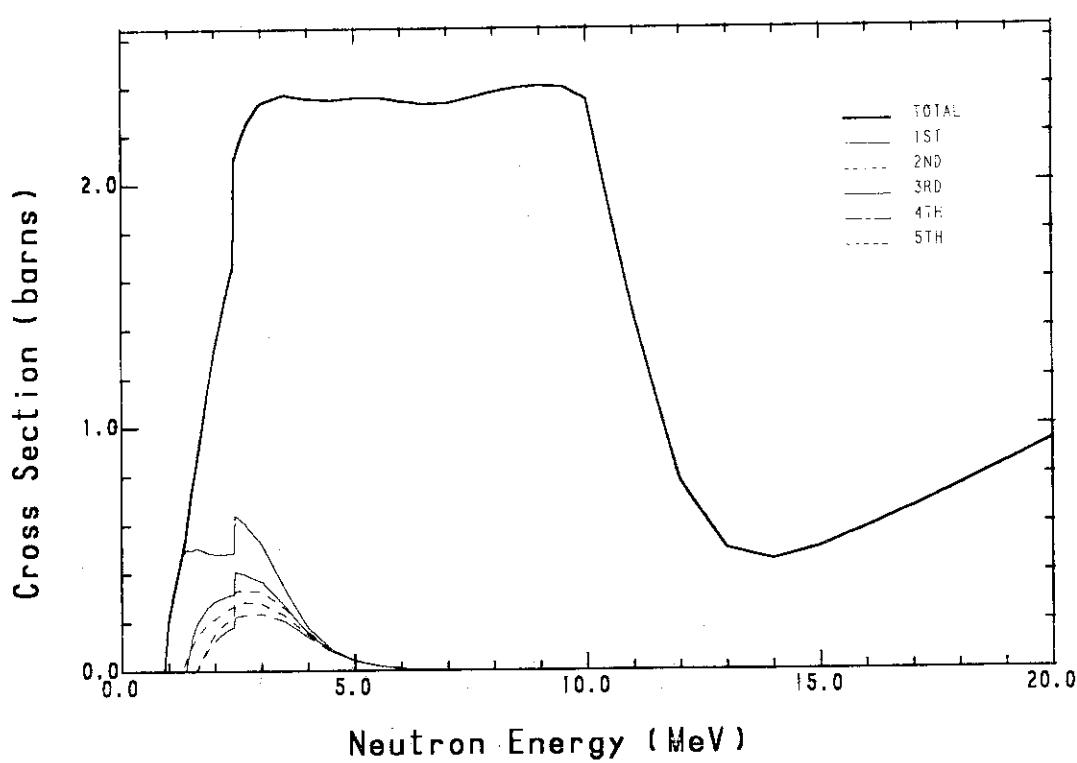


MAT=2821
MT= 2



MAT=2821
MT= 102

^{204}Pb
 (n, n')



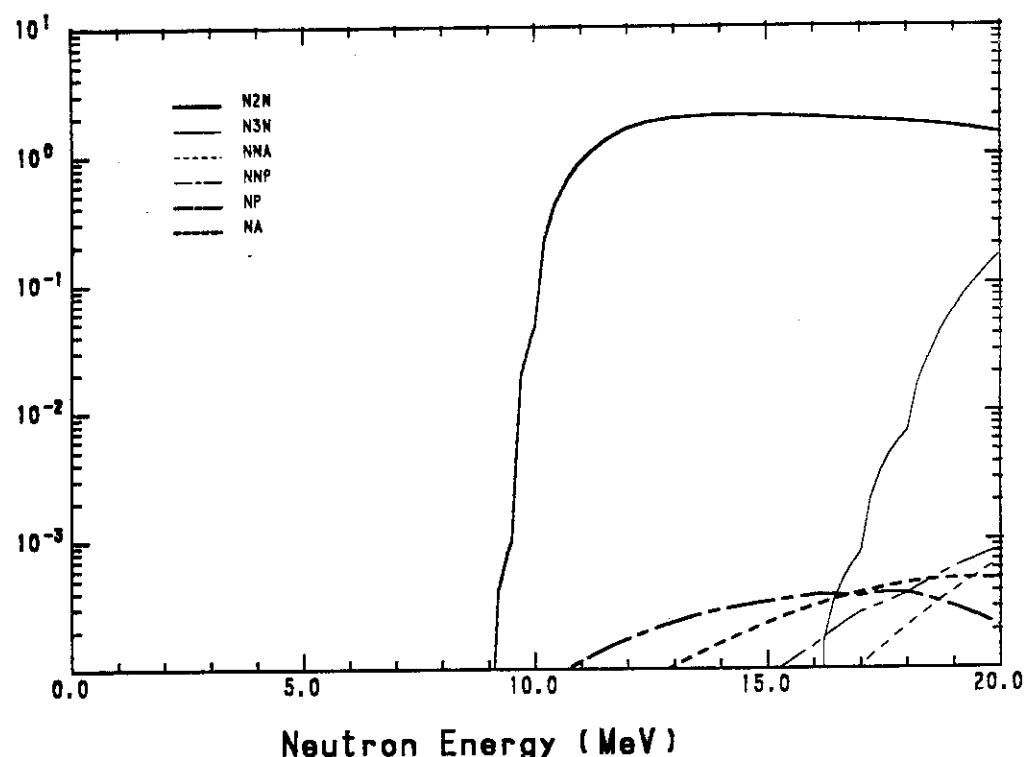
MAT=2821
MT= 4
51~55

^{204}Pb

$(n, 2n)$
 $(n, 3n)$
 $(n, n'\alpha)$
 $(n, n'p)$
 (n, p)
 (n, α)

MAT=2822
 MT= 16
 17
 22
 28
 103
 107

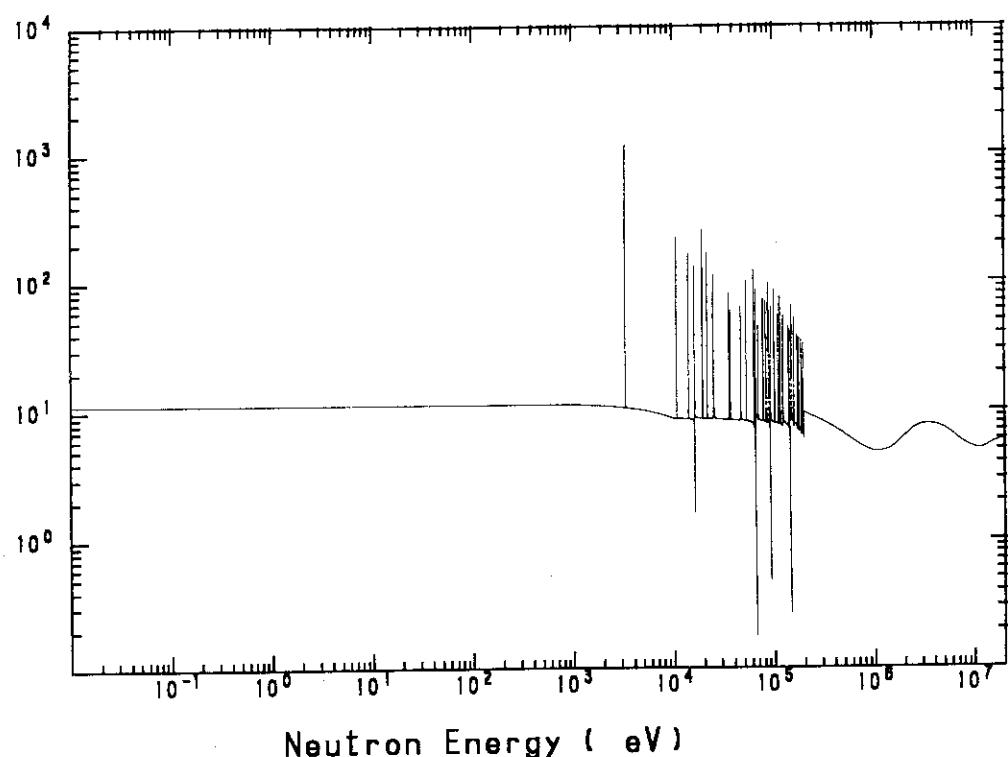
Cross Section (barns)

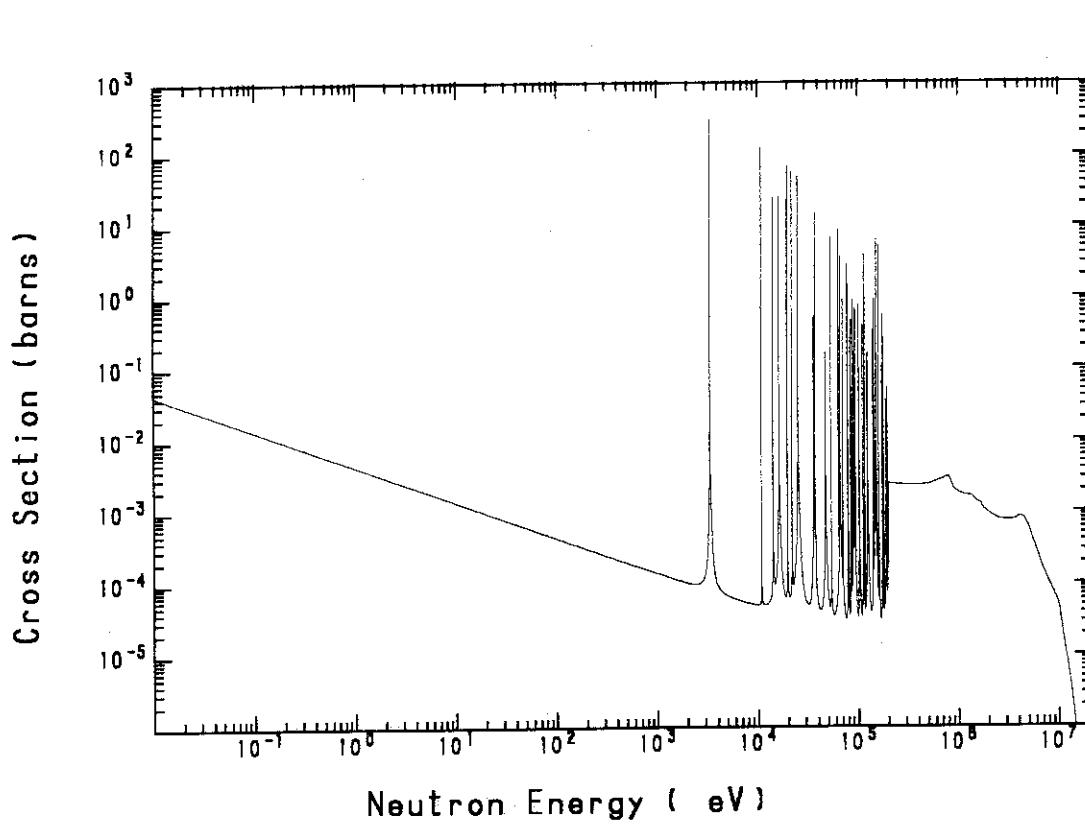
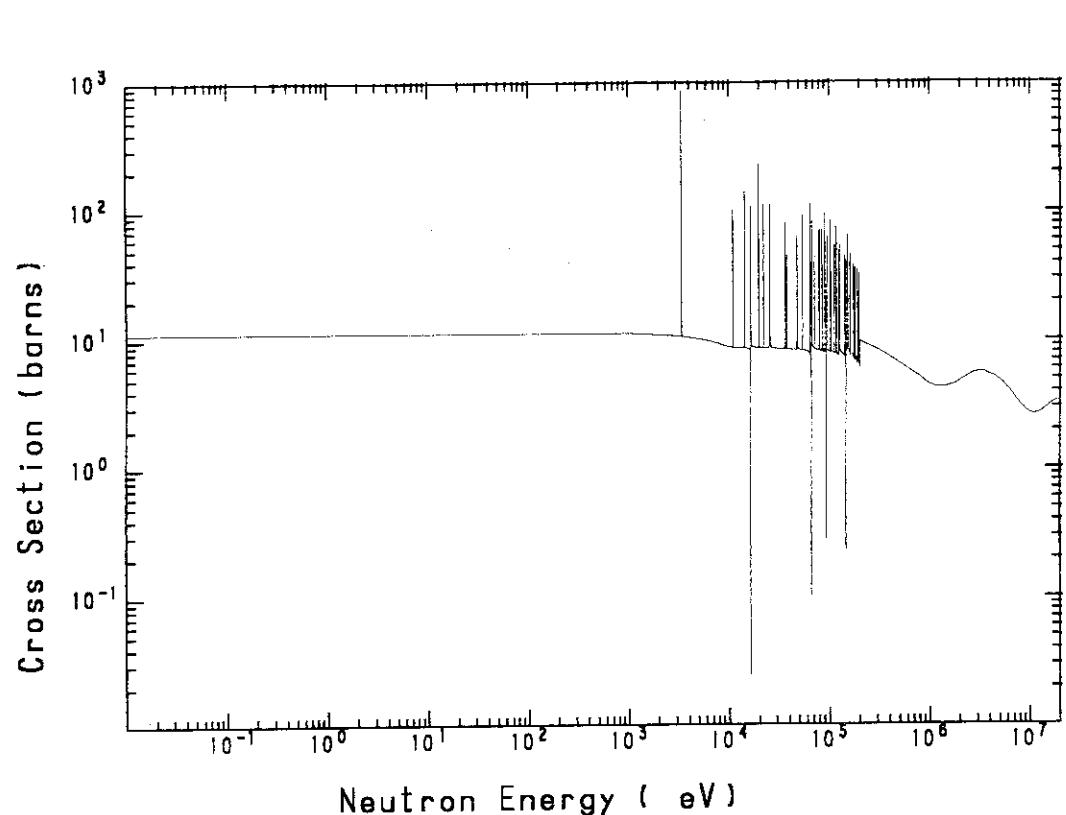
 **^{206}Pb**

TOTAL

MAT=2822
 MT= 1

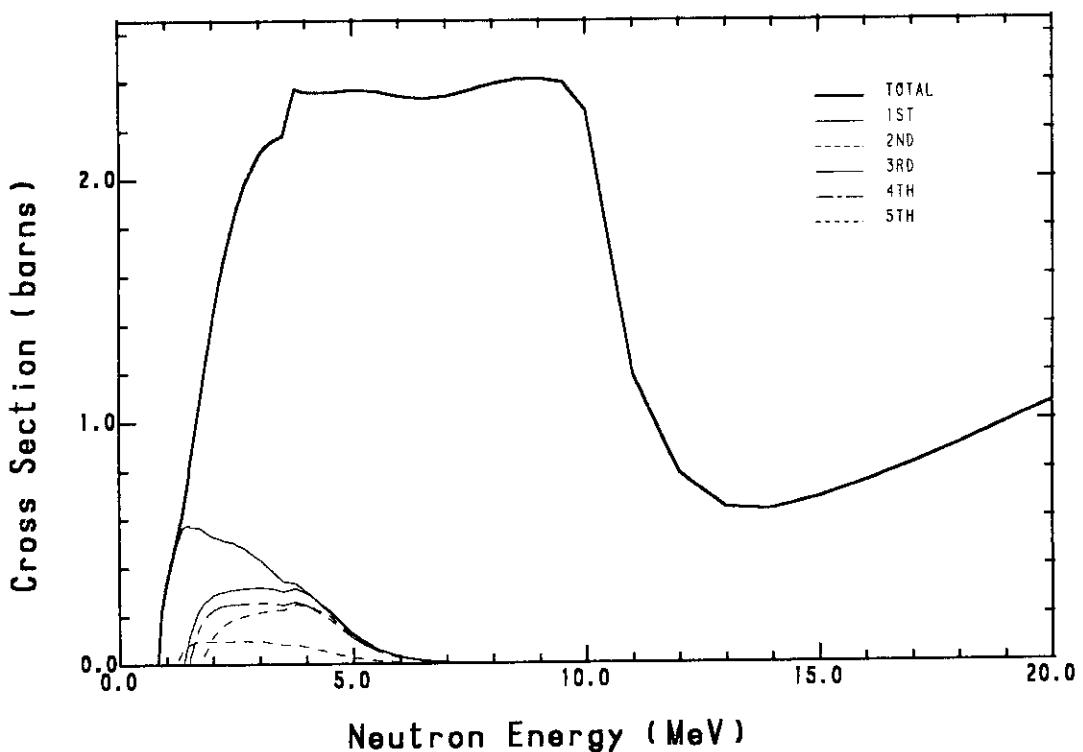
Cross Section (barns)





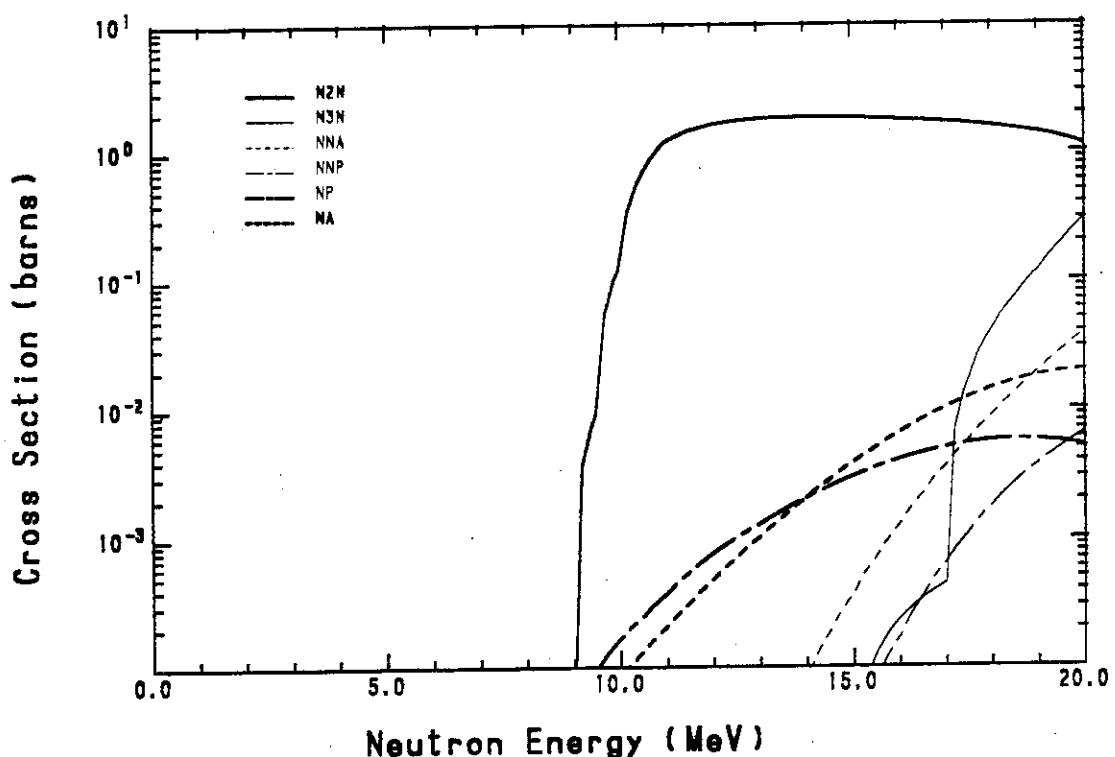
^{206}Pb
 (n, n')

MAT=2822
MT= 4
51~55

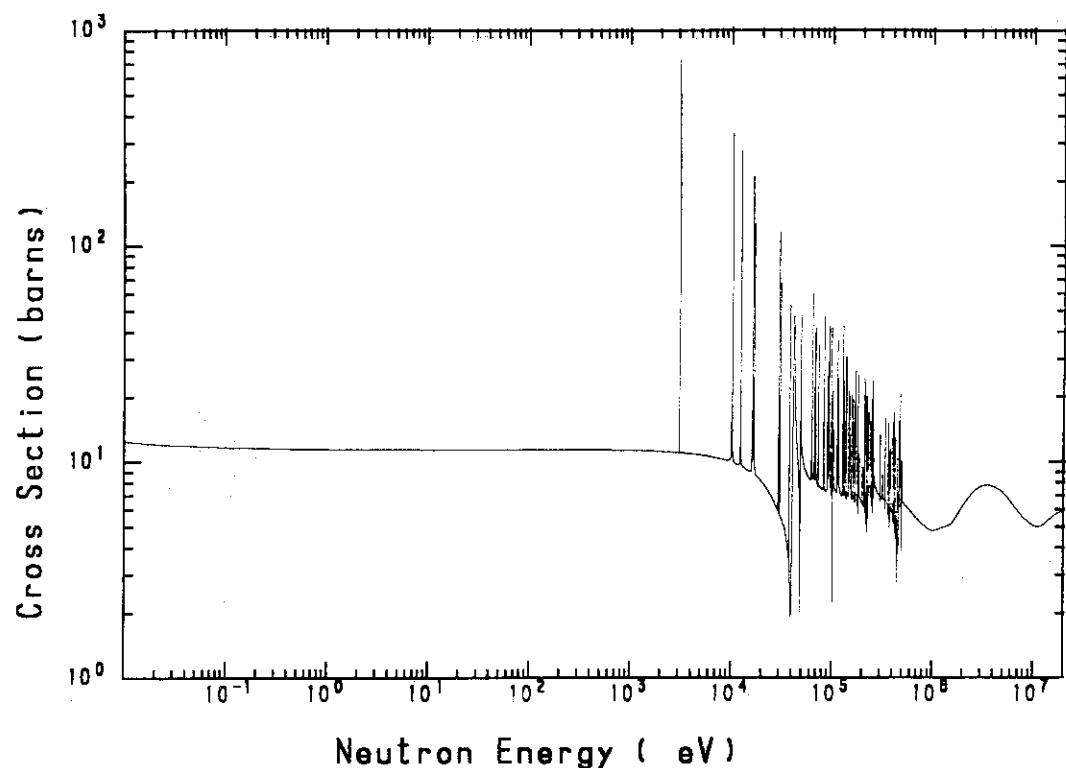


^{206}Pb
 $(n, 2n)$
 $(n, 3n)$
 $(n, n' \alpha)$
 $(n, n' p)$
 (n, p)
 (n, α)

MAT=2822
MT= 16
17
22
28
103
107

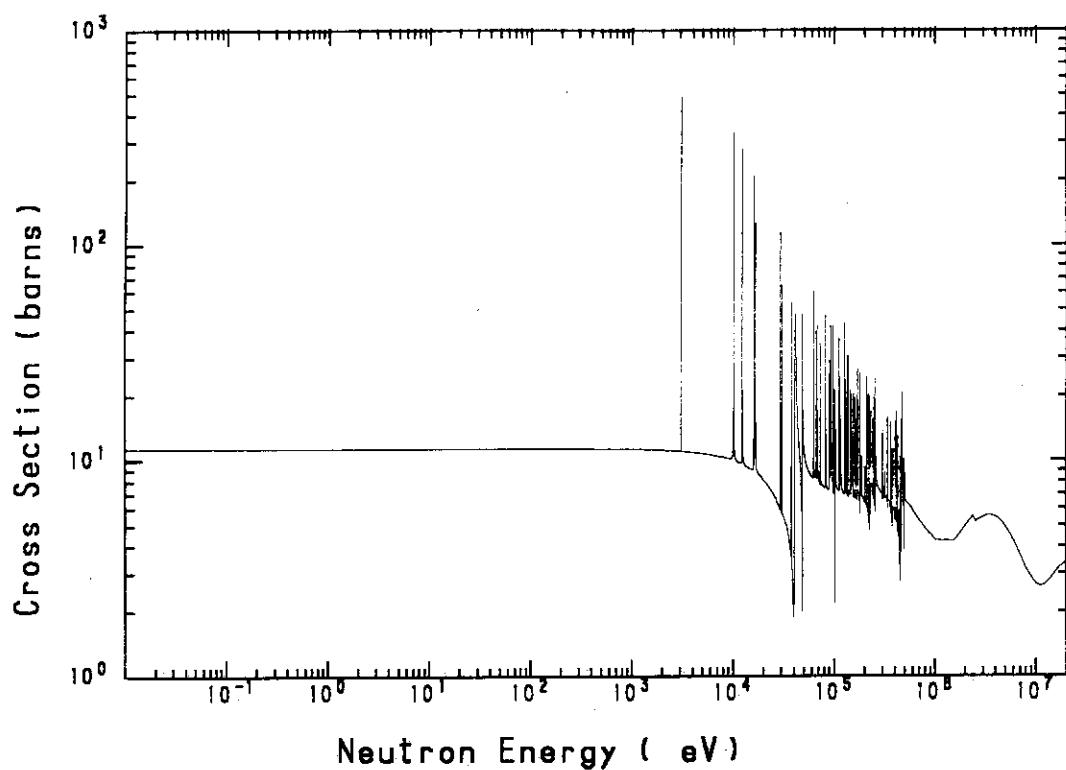


^{207}Pb
TOTAL



MAT=2823
MT= 1

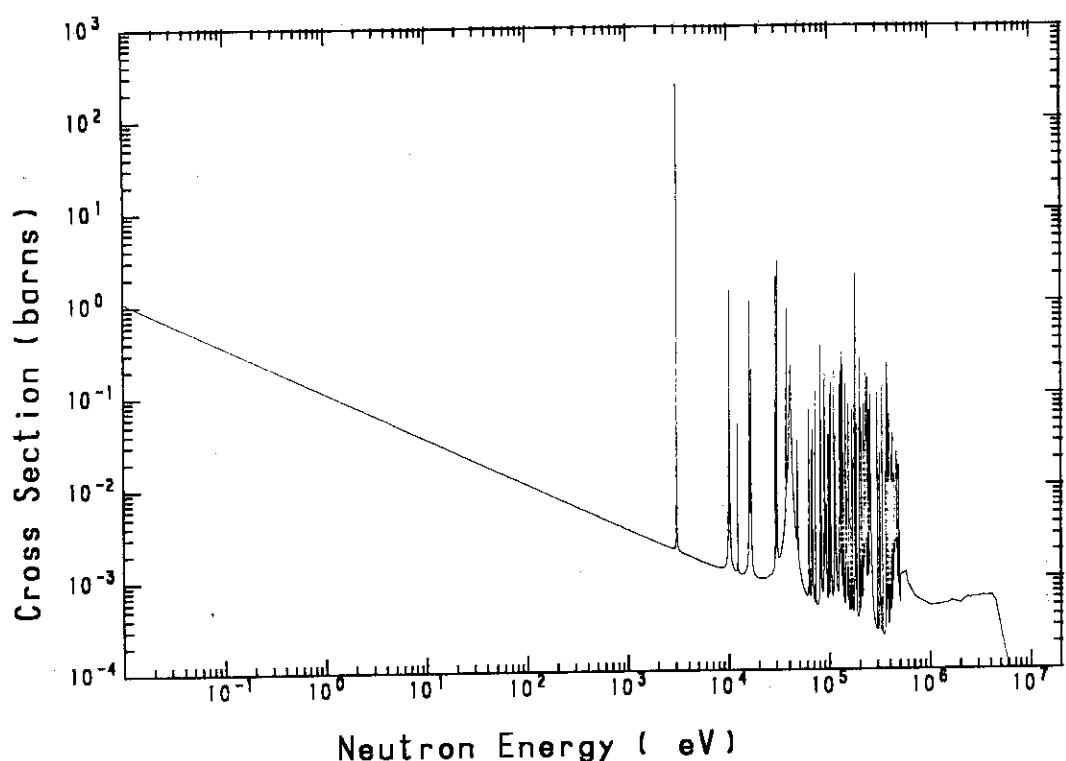
^{207}Pb
(n, n)



MAT=2823
MT= 2

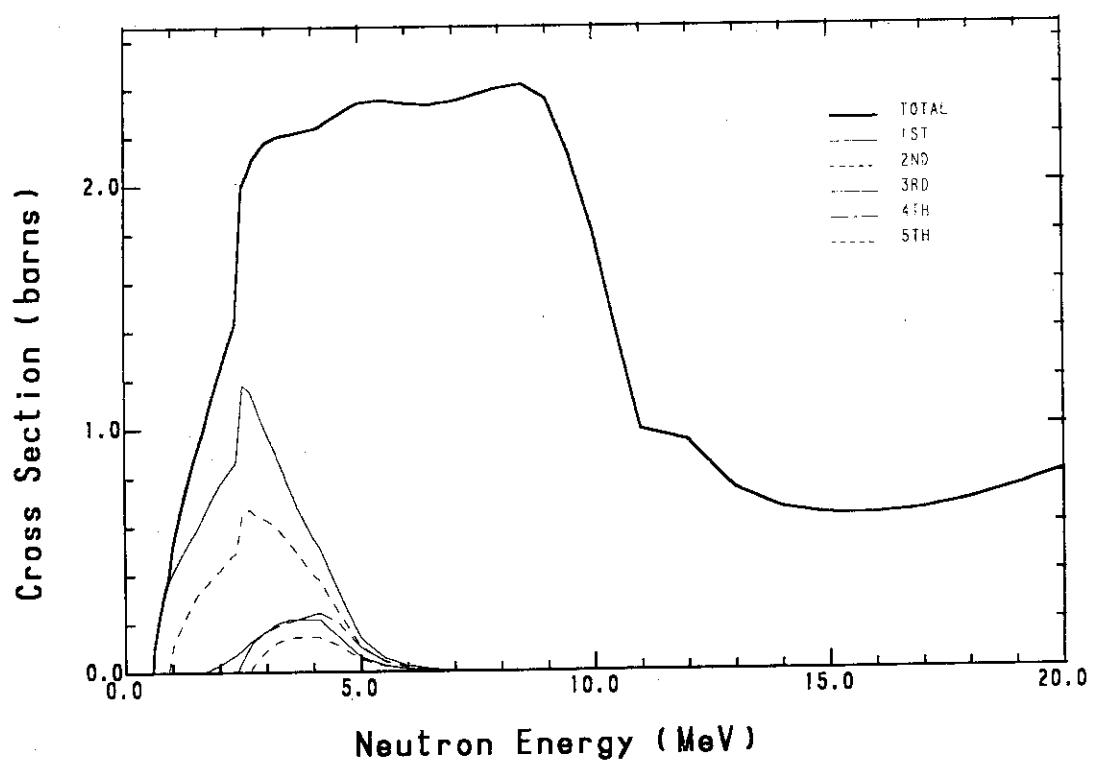
^{207}Pb
(n, γ)

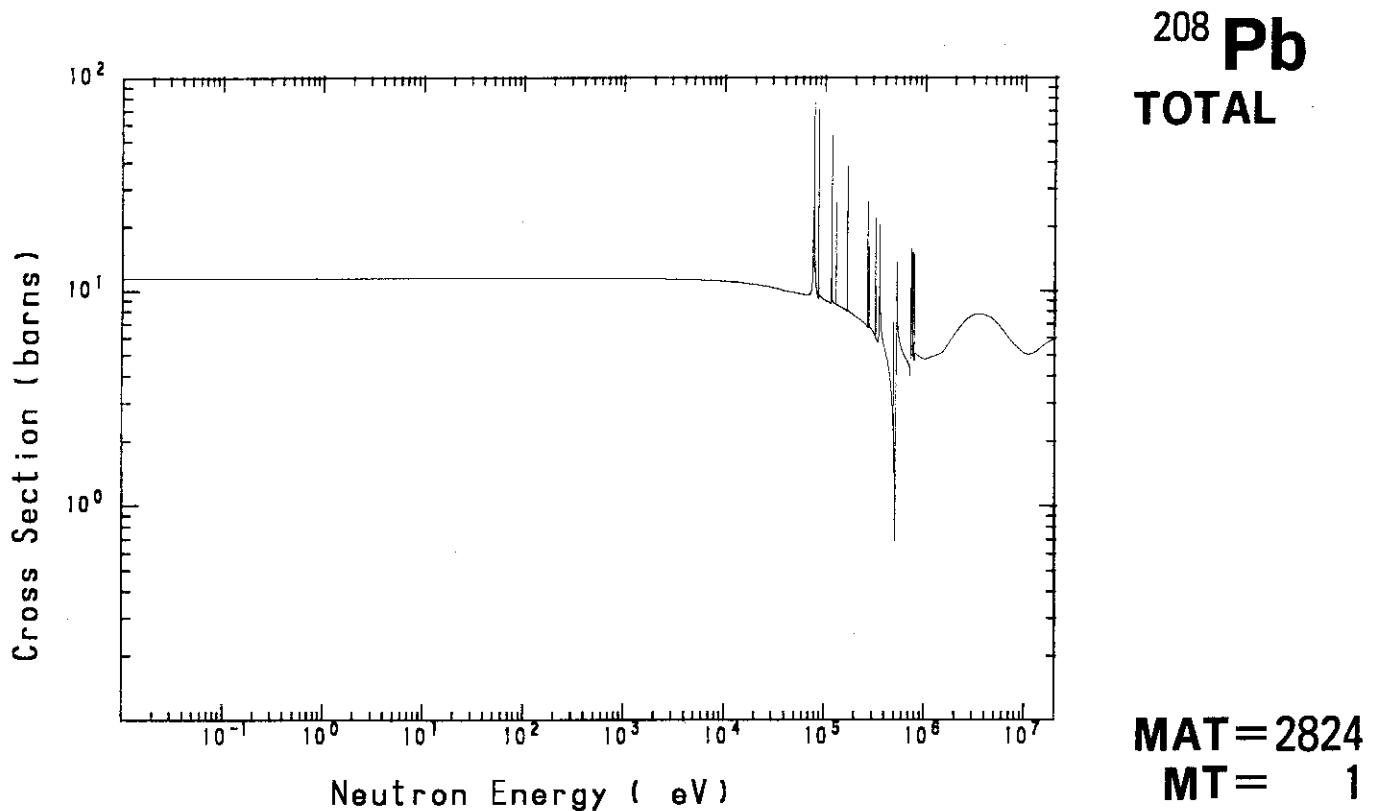
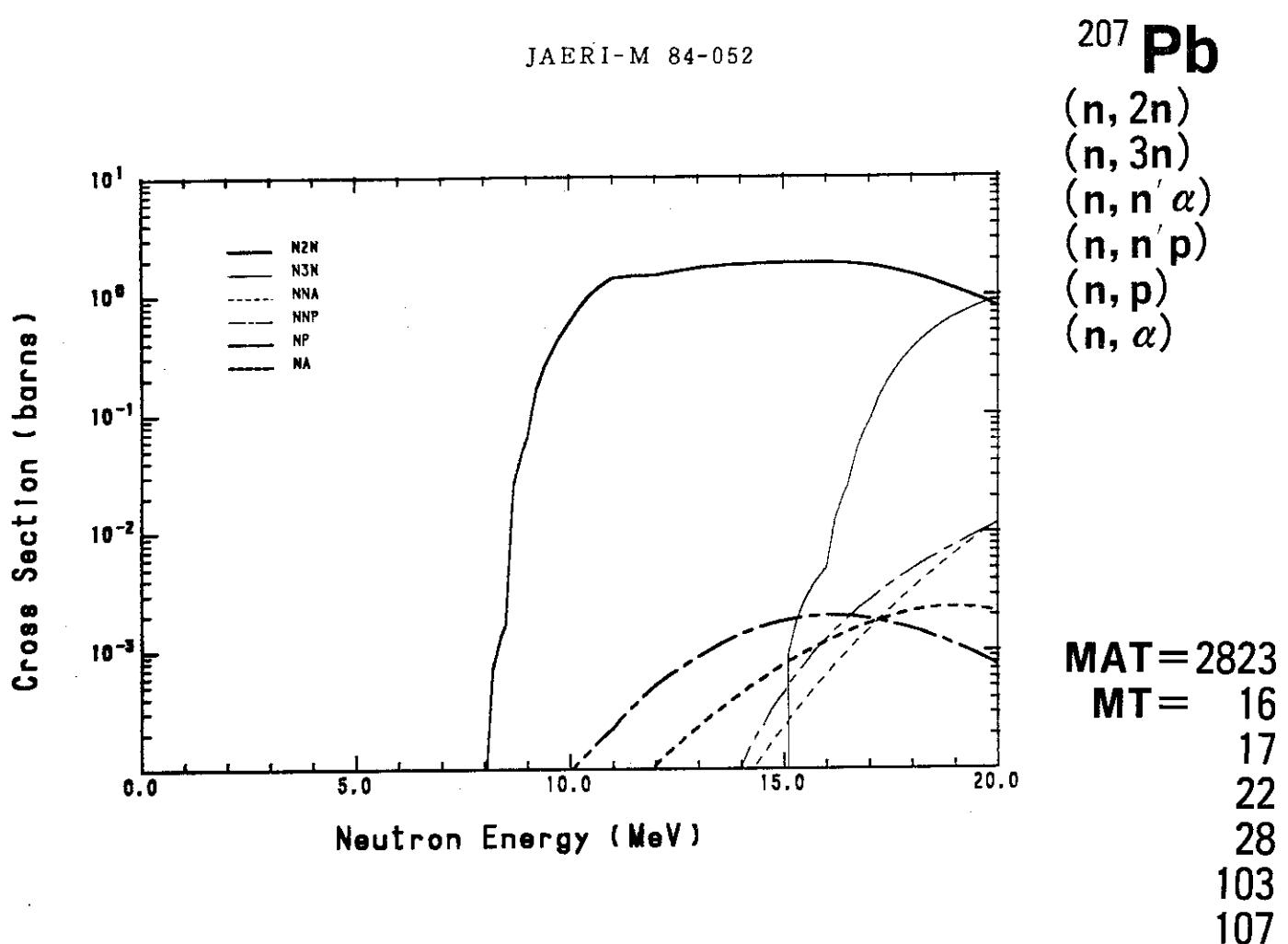
MAT=2823
MT= 102



^{207}Pb
(n, n')

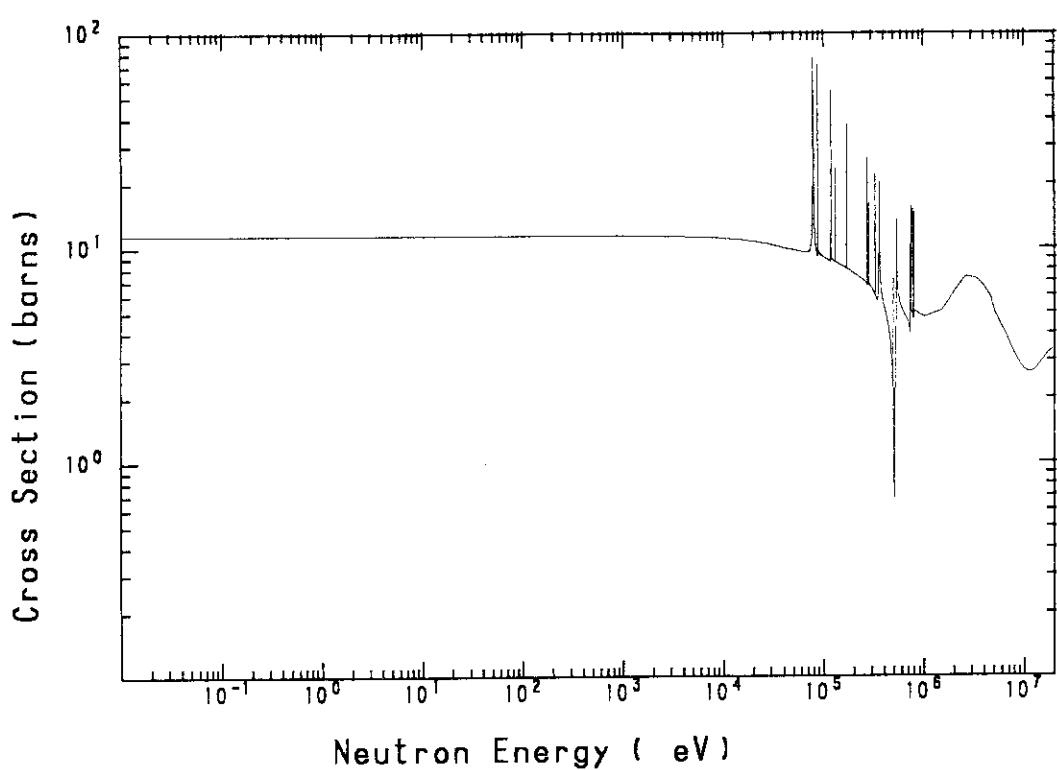
MAT=2823
MT= 4
51~55





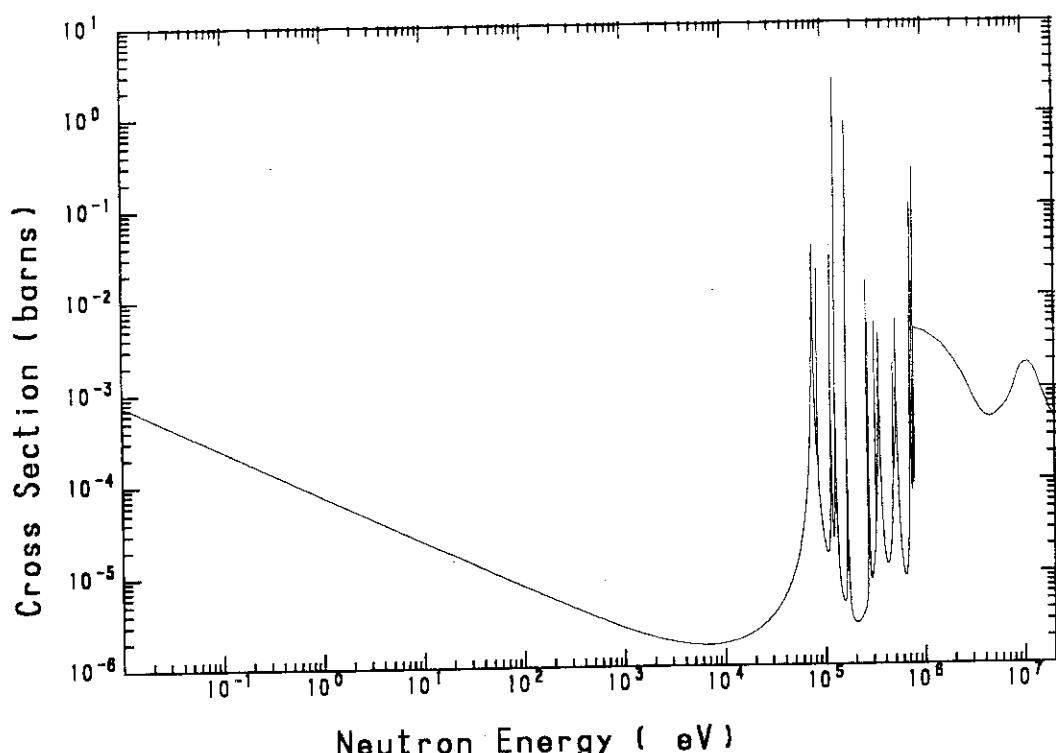
^{208}Pb
(n, n)

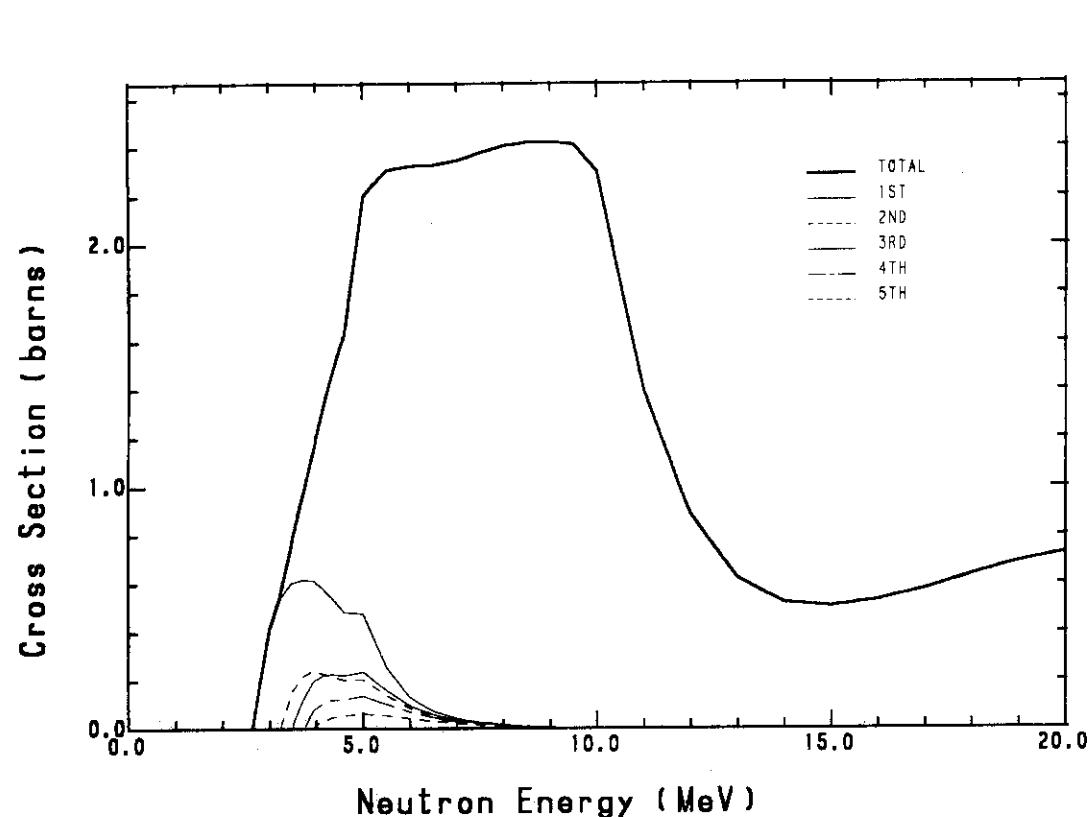
MAT=2824
MT= 2



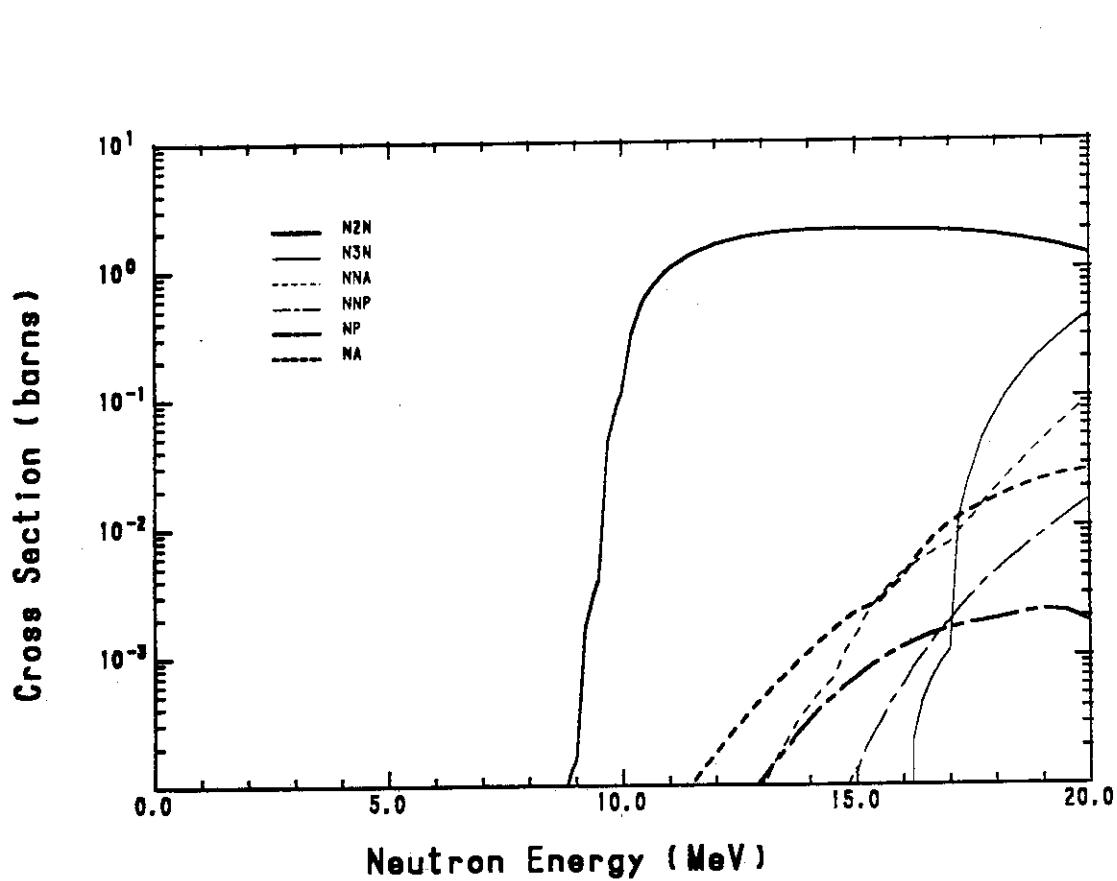
^{208}Pb
(n, γ)

MAT=2824
MT= 102





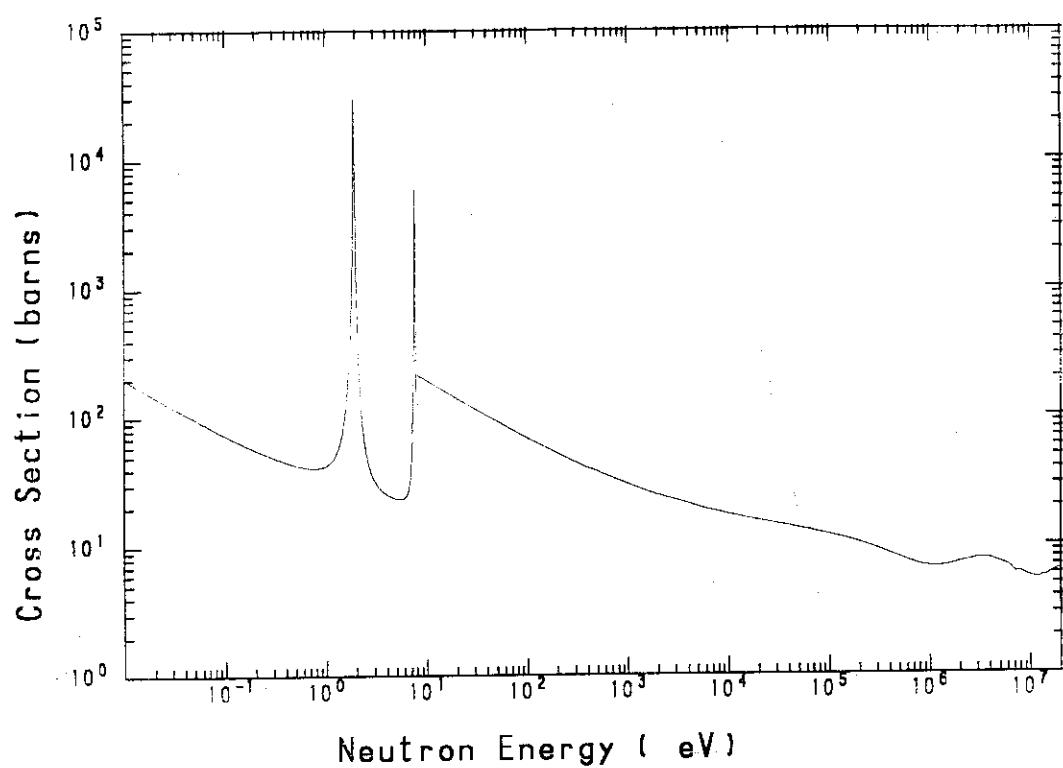
MAT=2824
MT= 4
51~55



MAT=2824
MT= 16
17
22
28
103
107

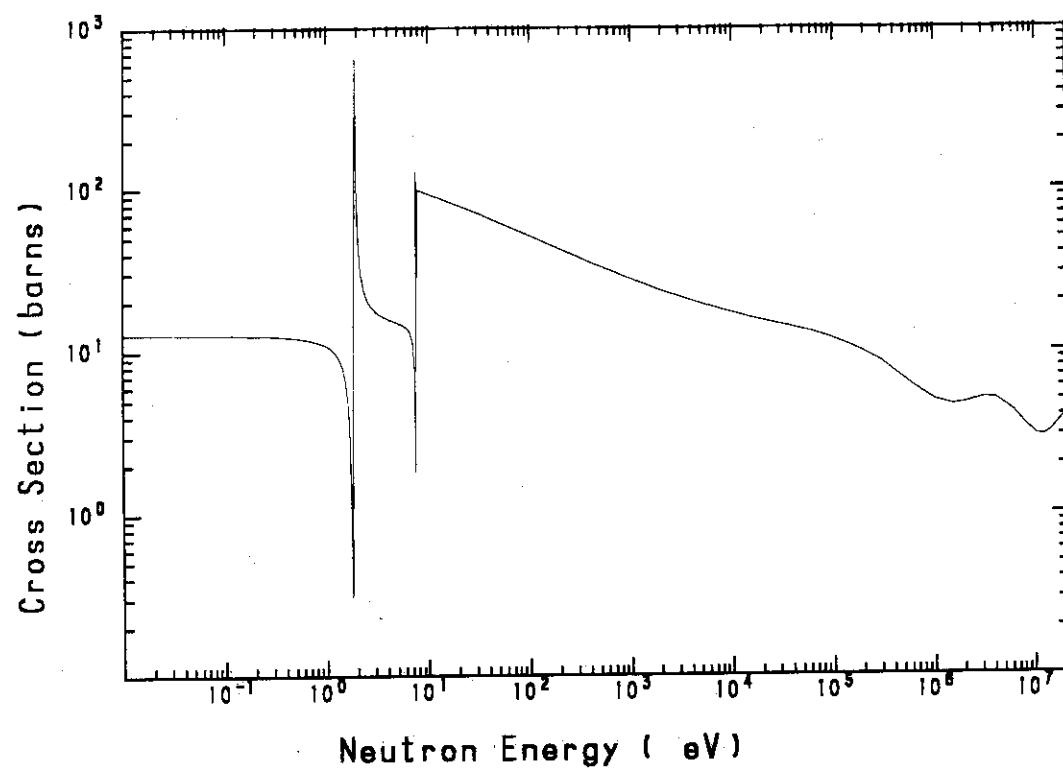
^{228}Th
TOTAL

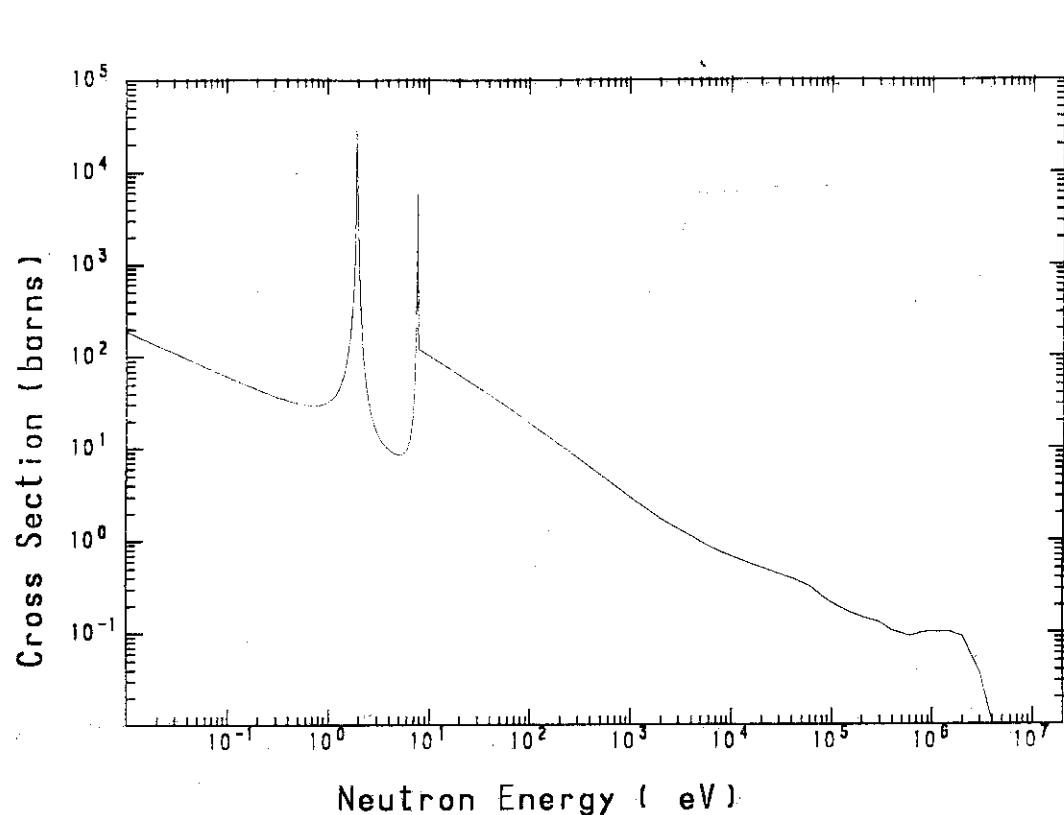
MAT=2901
MT= 1



^{228}Th
(n, n)

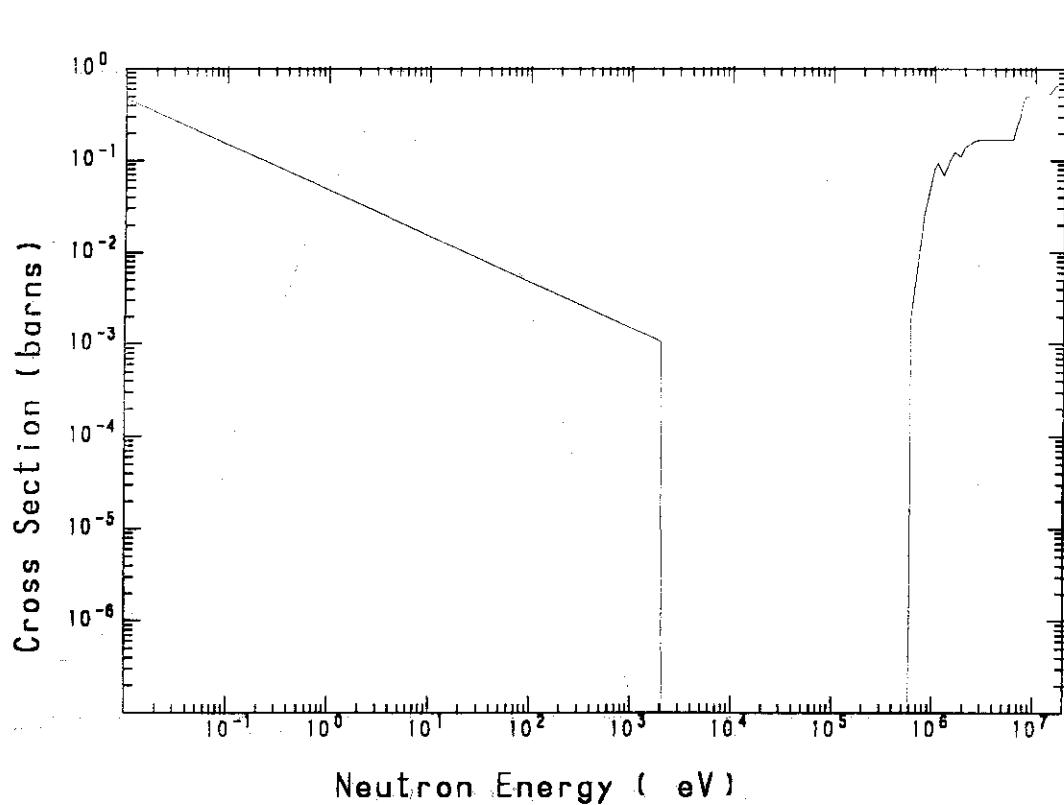
MAT=2901
MT= 2





228 Th
 (n, γ)

MAT=2901
MT = 102

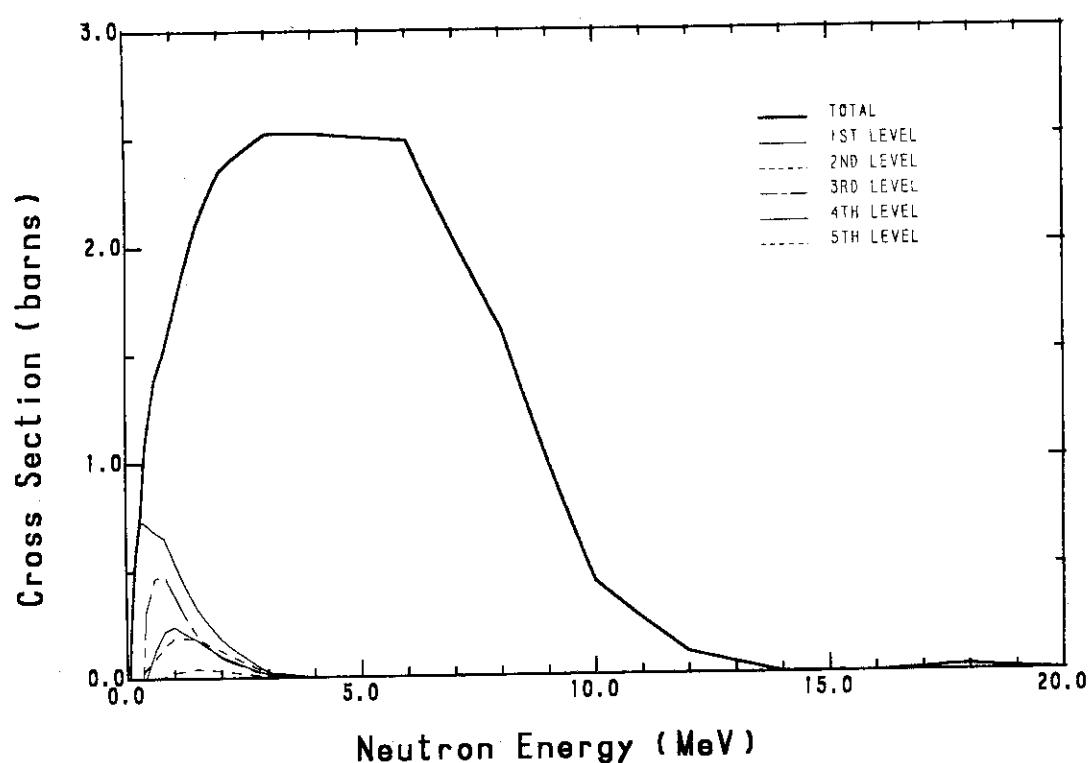


228 Th
 (n, f)

MAT=2901
MT = 18

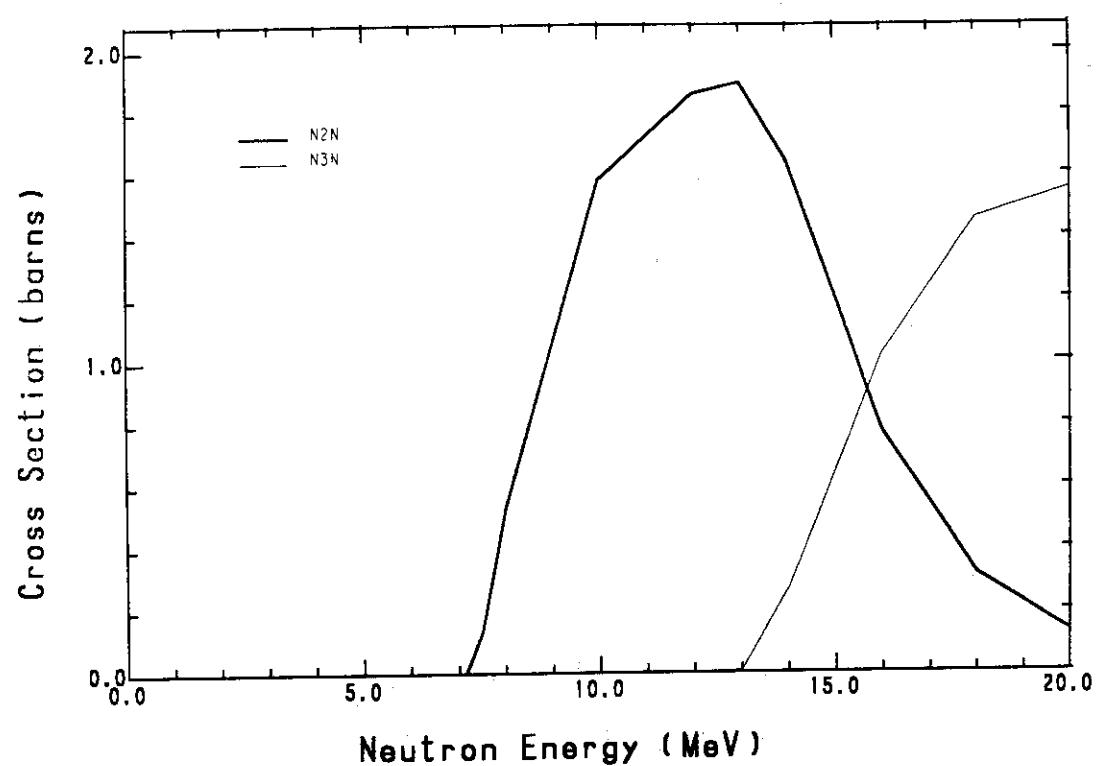
^{228}Th
(n, n')

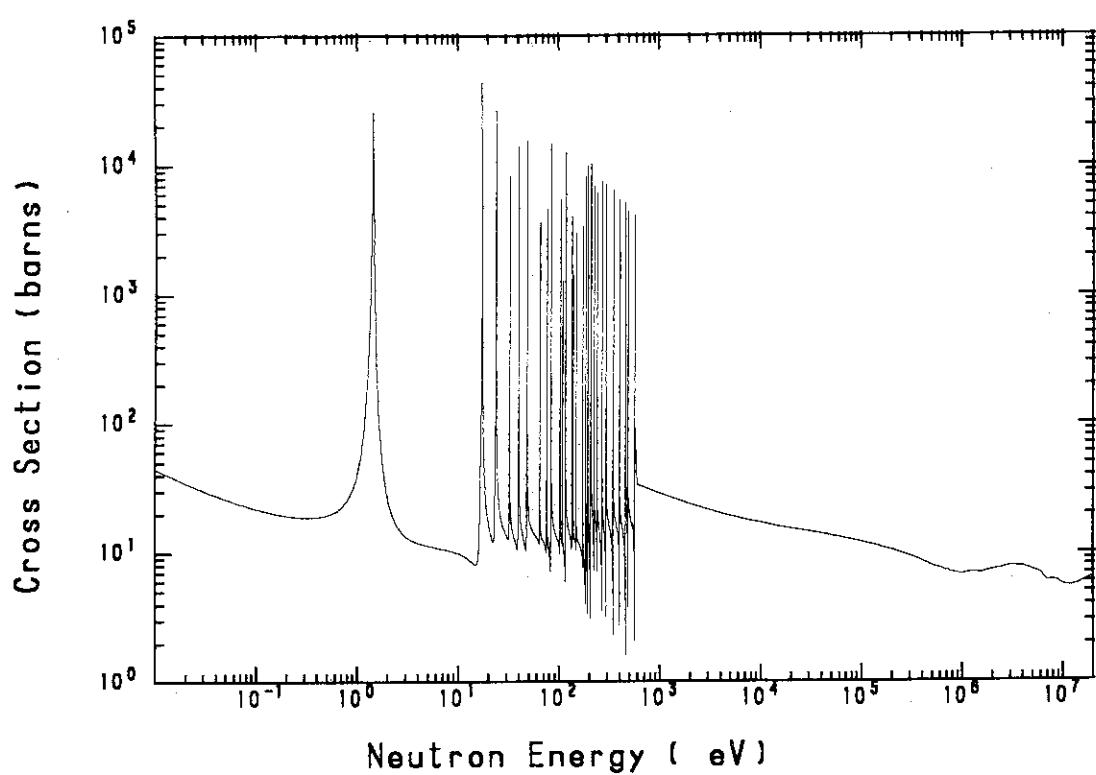
MAT=2901
MT= 4
51~55



^{228}Th
($n, 2n$)
($n, 3n$)

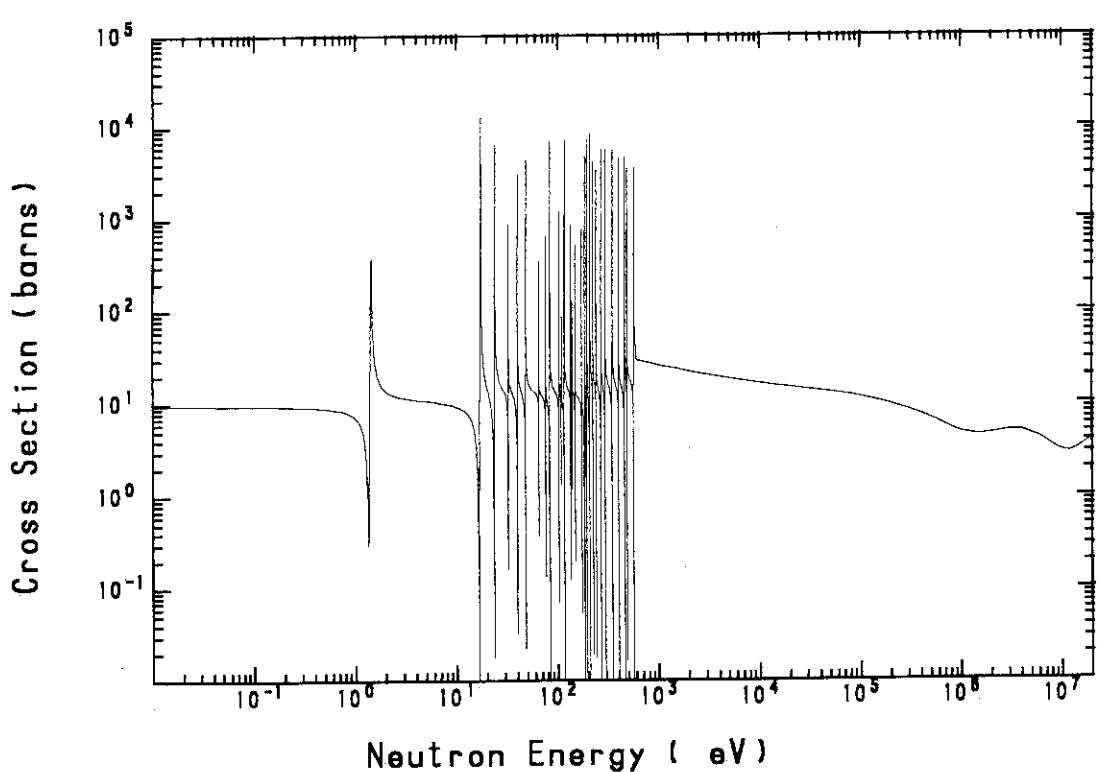
MAT=2901
MT= 16
17





^{230}Th
TOTAL

MAT=2902
MT= 1

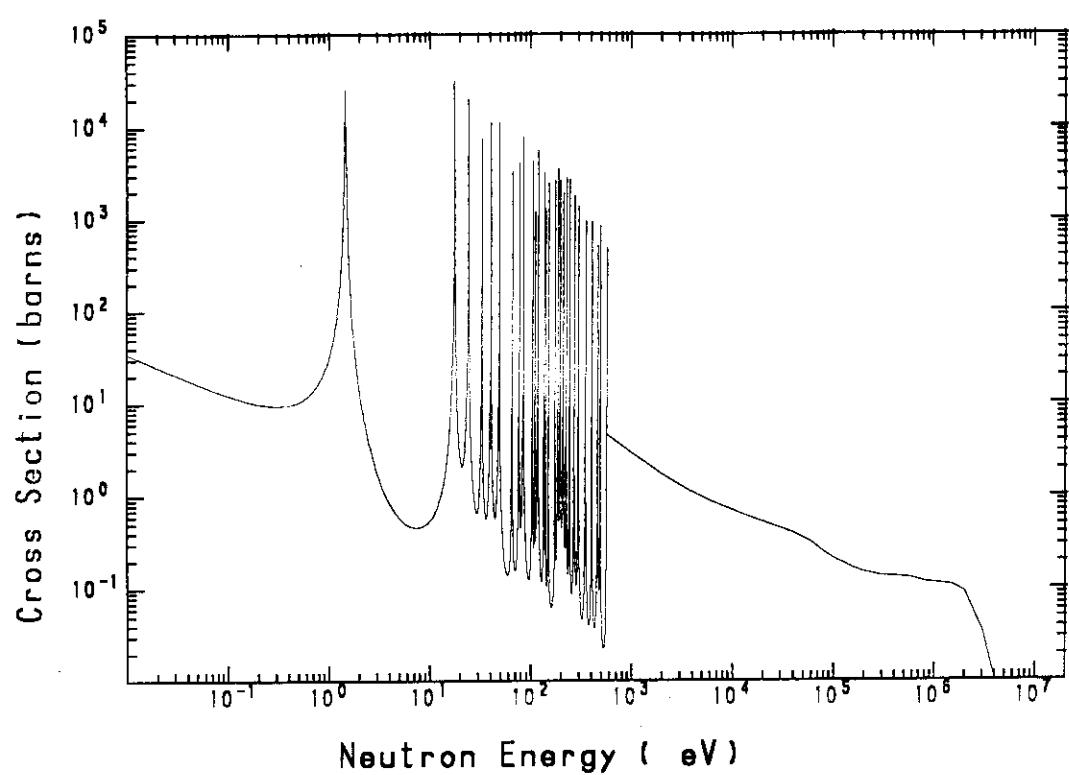


^{230}Th
(n, n)

MAT=2902
MT= 2

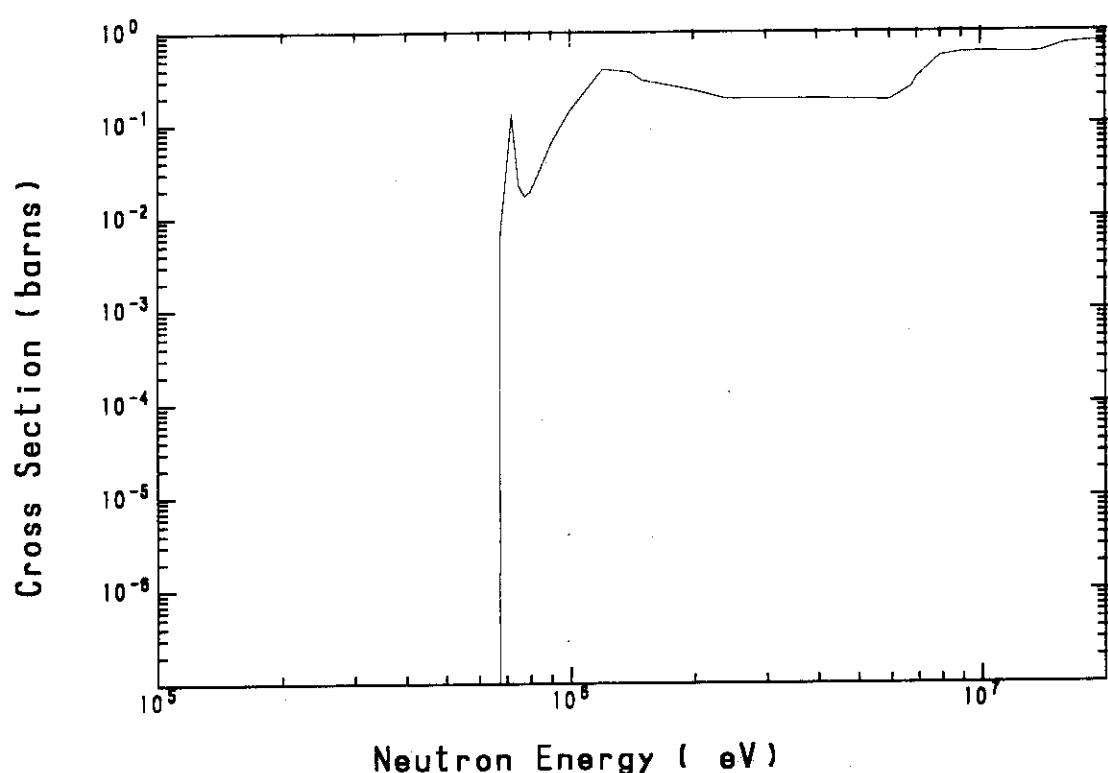
^{230}Th
(n, γ)

MAT=2902
MT= 102

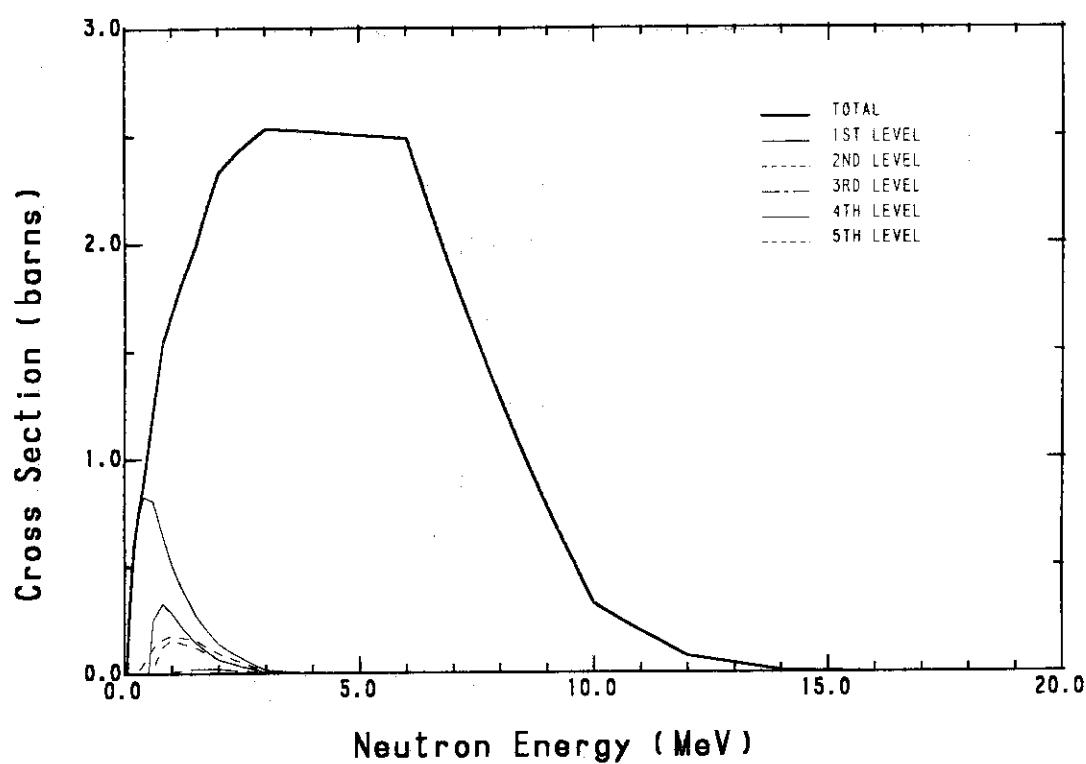


^{230}Th
(n, f)

MAT=2902
MT= 18

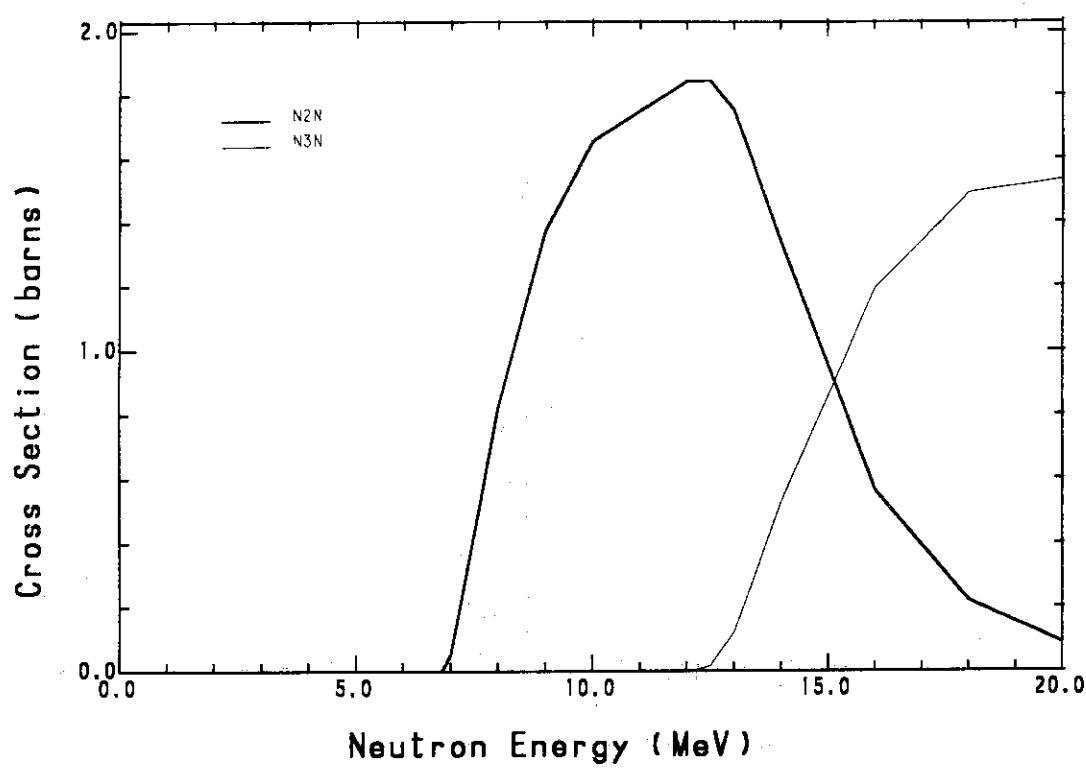


^{230}Th
(n, n')



MAT=2902
MT= 4
51~55

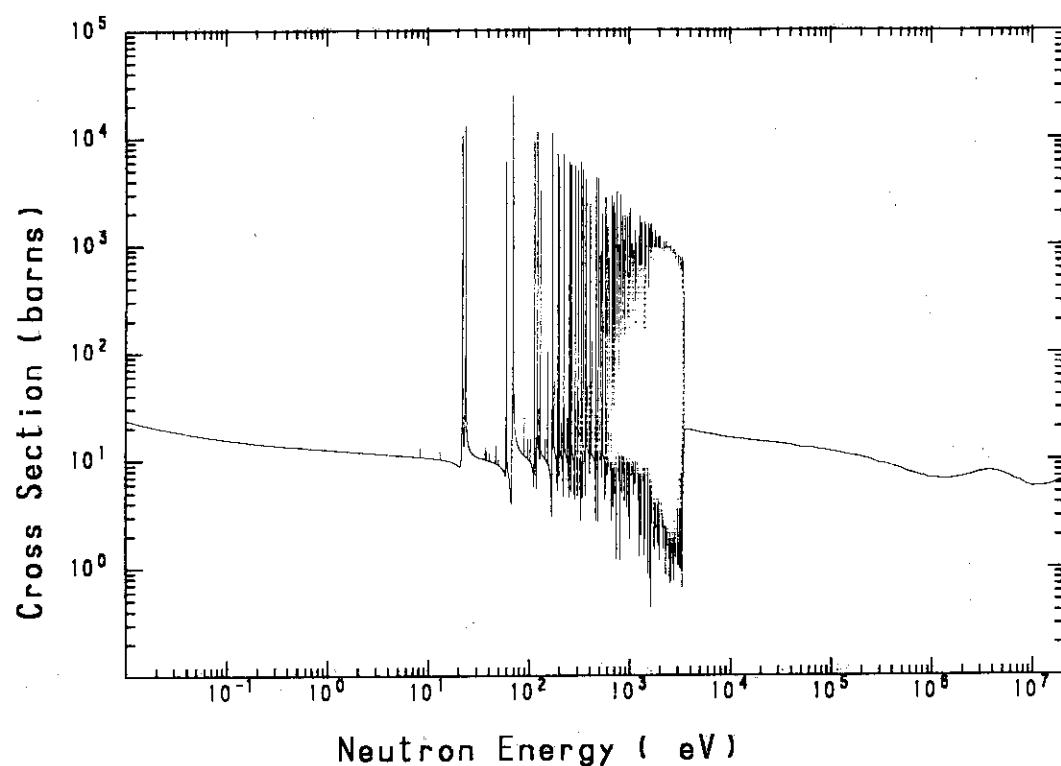
^{230}Th
($n, 2n$)
($n, 3n$)



MAT=2902
MT= 16
17

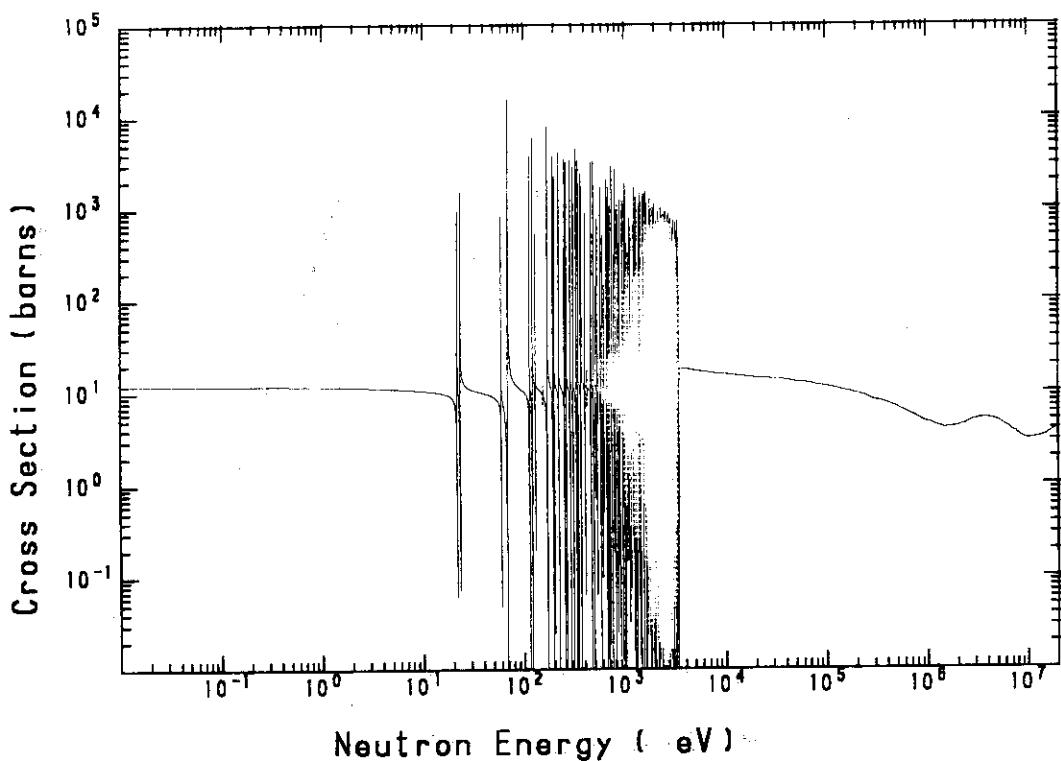
^{232}Th
TOTAL

MAT=2903
MT = 1

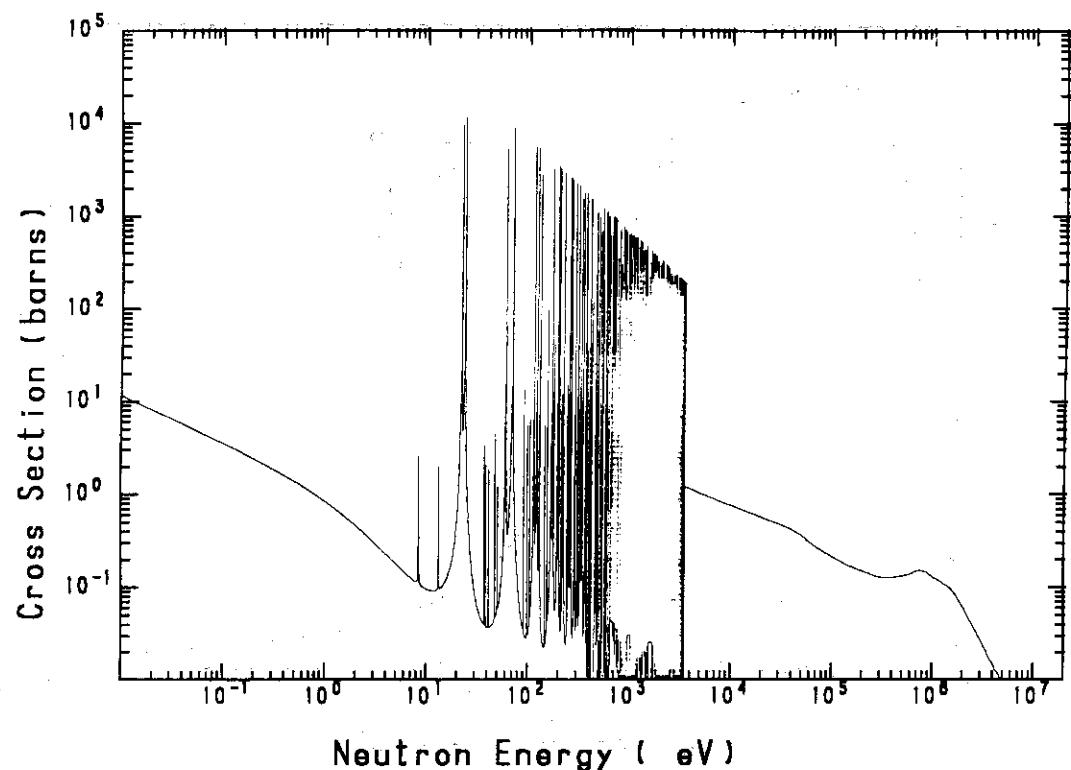


^{232}Th
(n, n)

MAT=2903
MT = 2

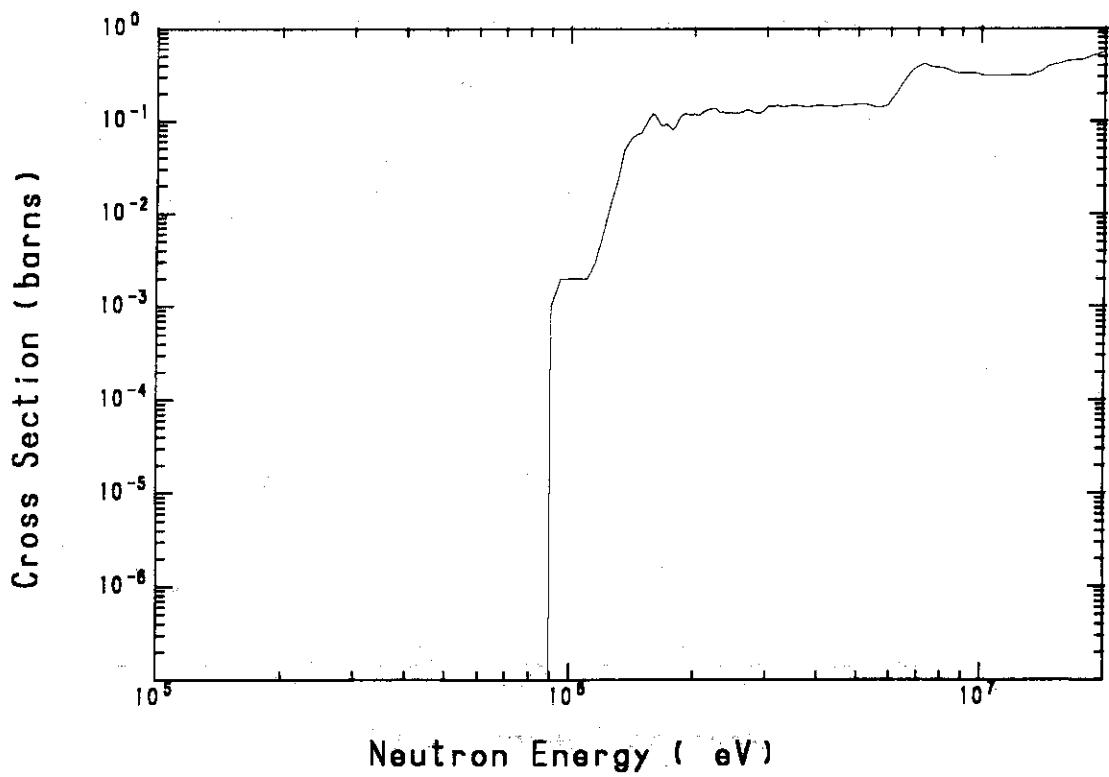


^{232}Th
(n, γ)



MAT=2903
MT= 102

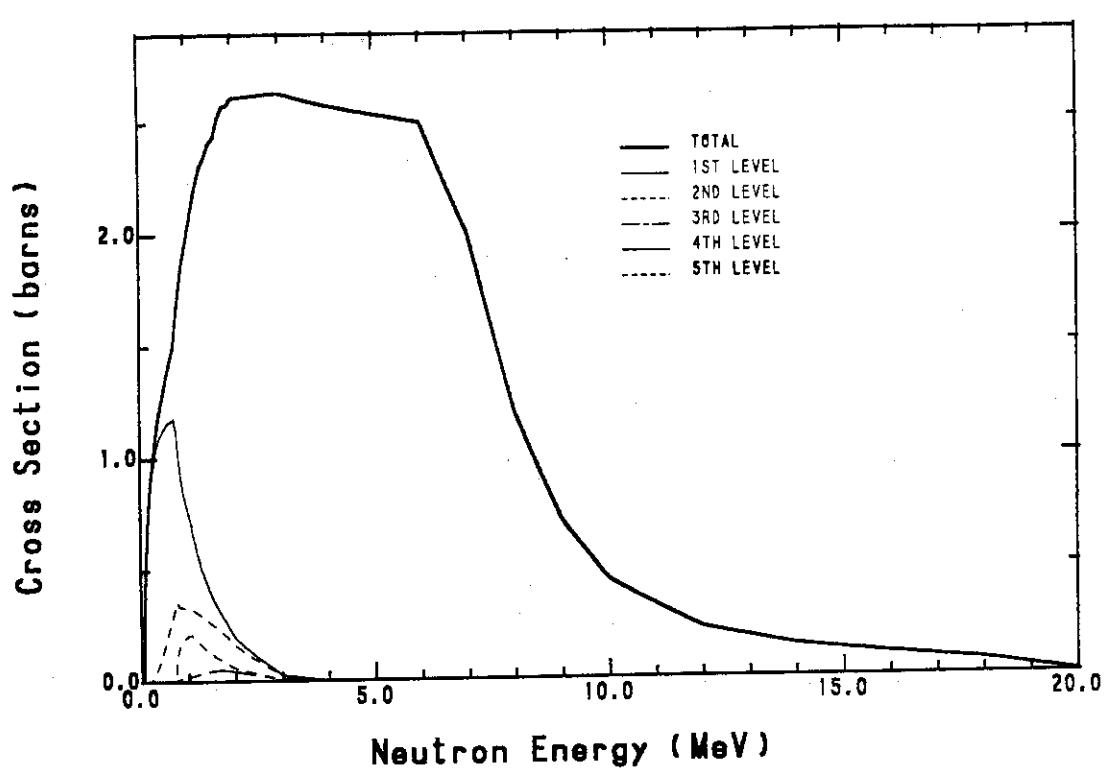
^{232}Th
(n, f)



MAT=2903
MT= 18

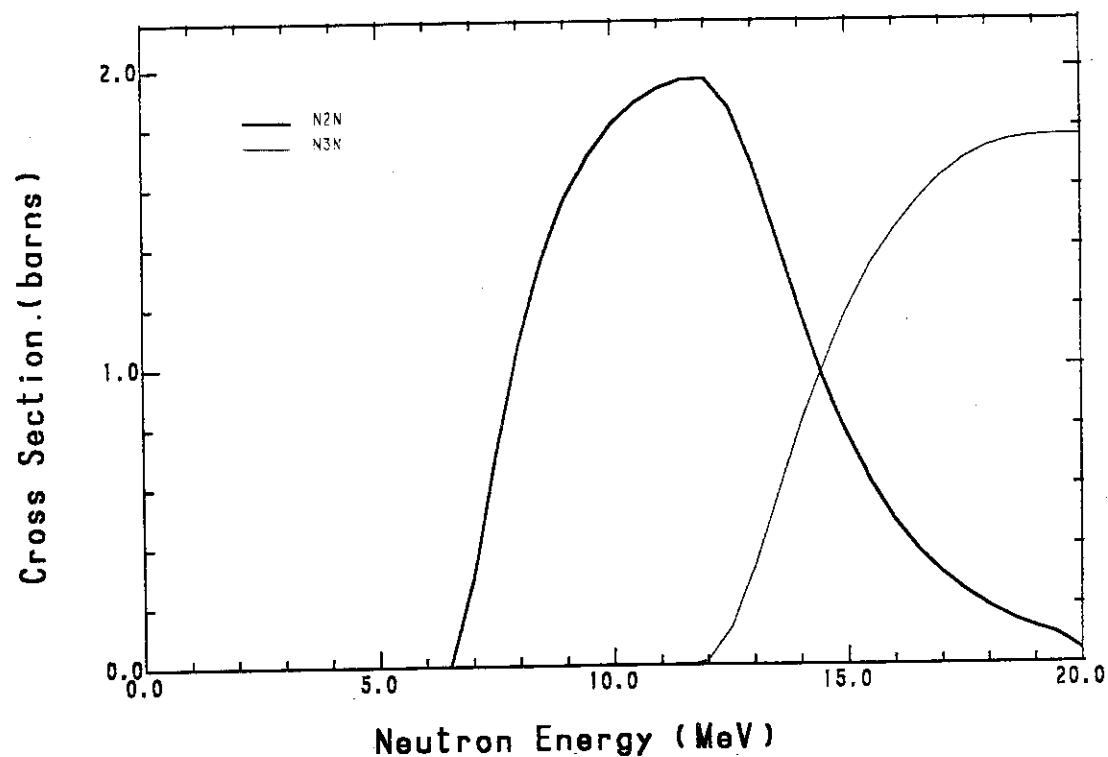
^{232}Th
 (n, n')

MAT=2903
MT= 4
51~55

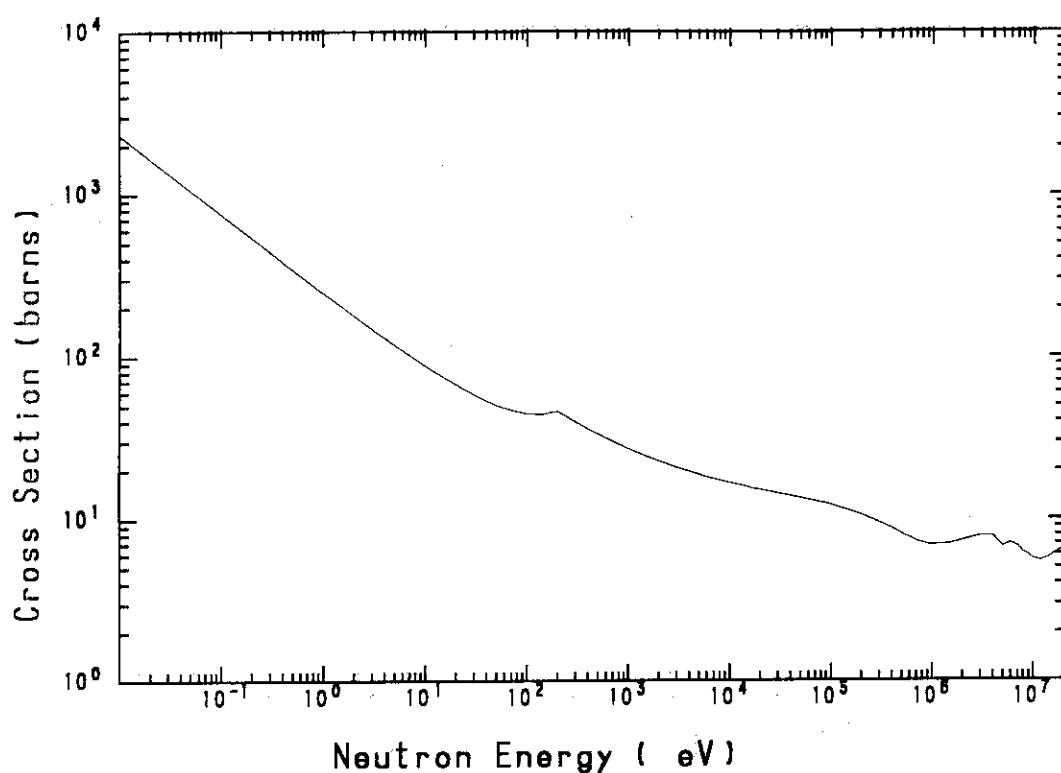


^{232}Th
 $(n, 2n)$
 $(n, 3n)$

MAT=2903
MT= 16
17

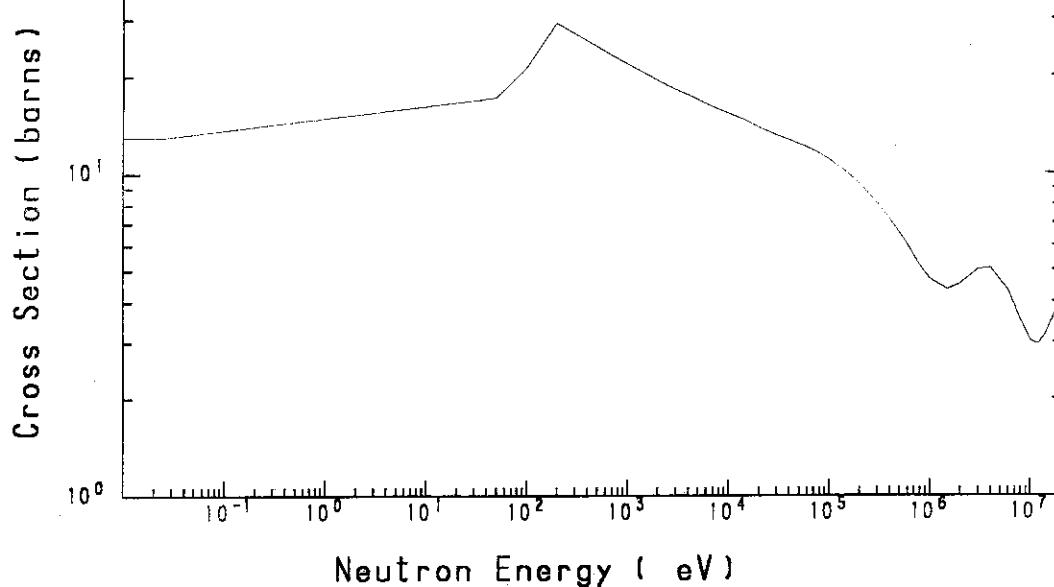


233 Th
TOTAL



MAT=2904
MT= 1

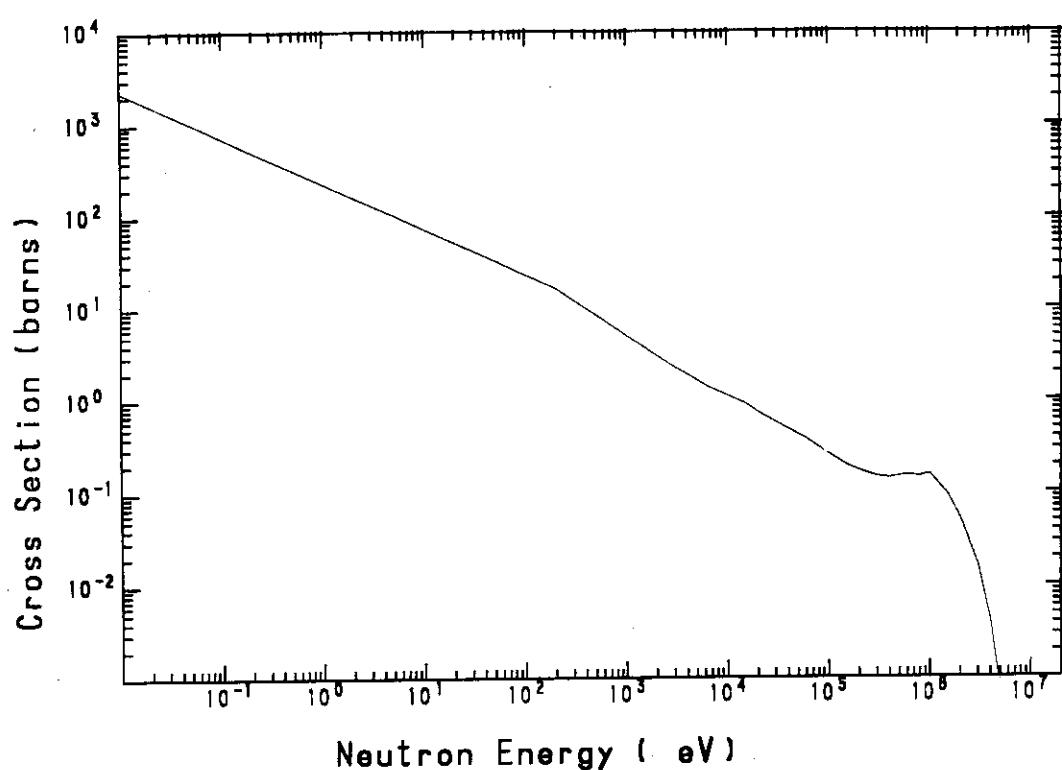
233 Th
(n, n)



MAT=2904
MT= 2

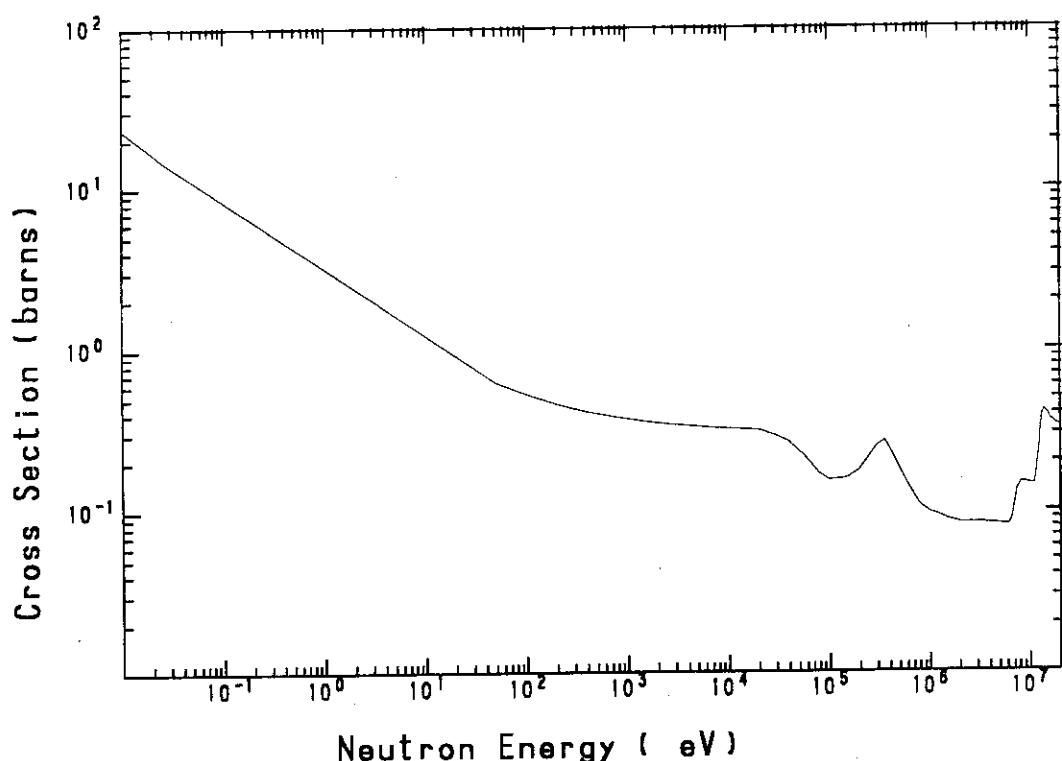
^{233}Th
 (n, γ)

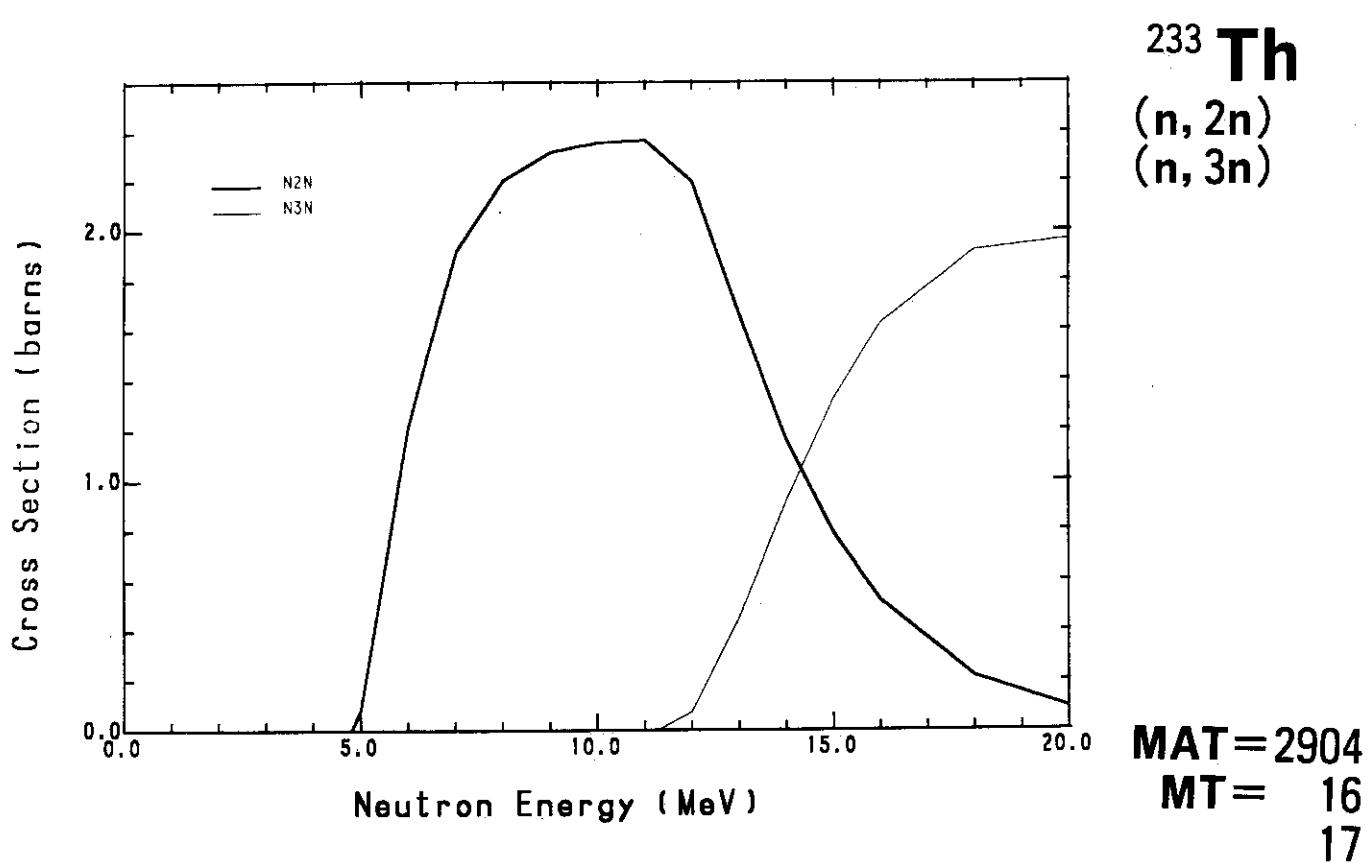
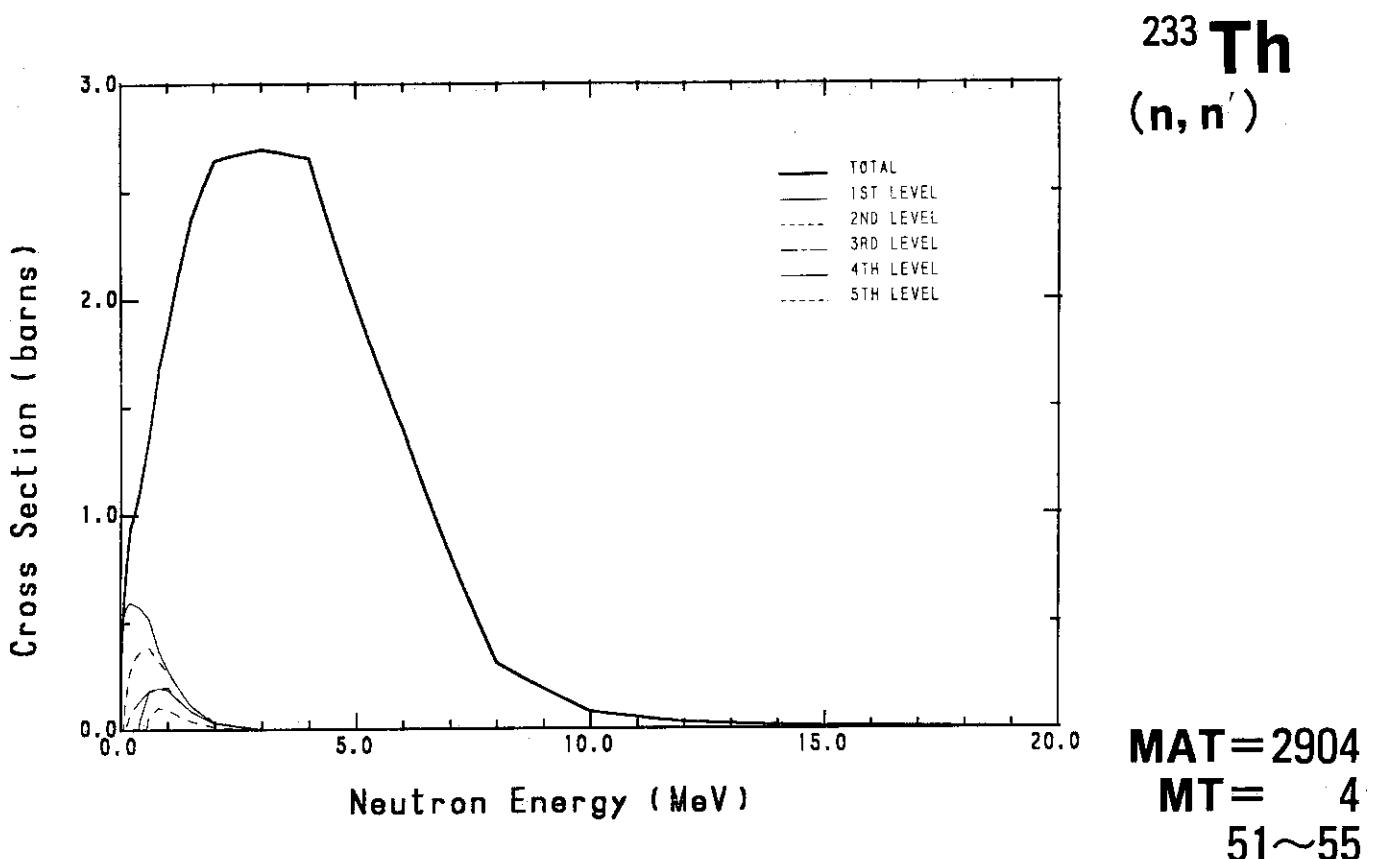
MAT=2904
MT = 102



^{233}Th
 (n, f)

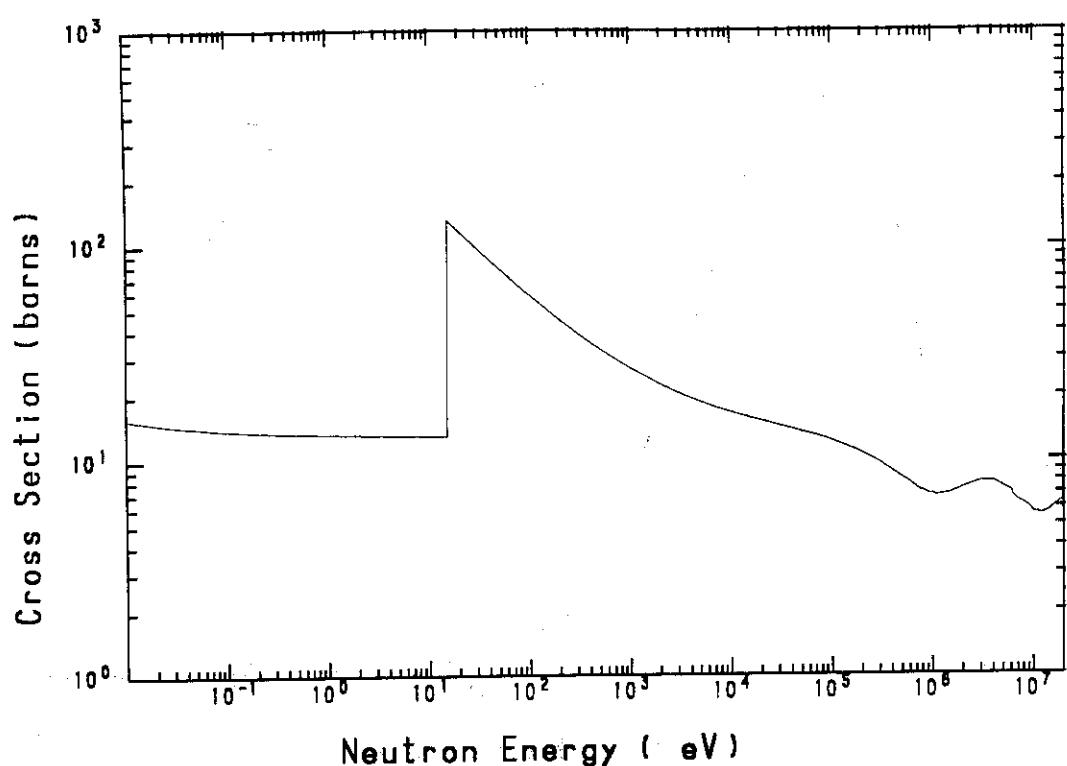
MAT=2904
MT = 18





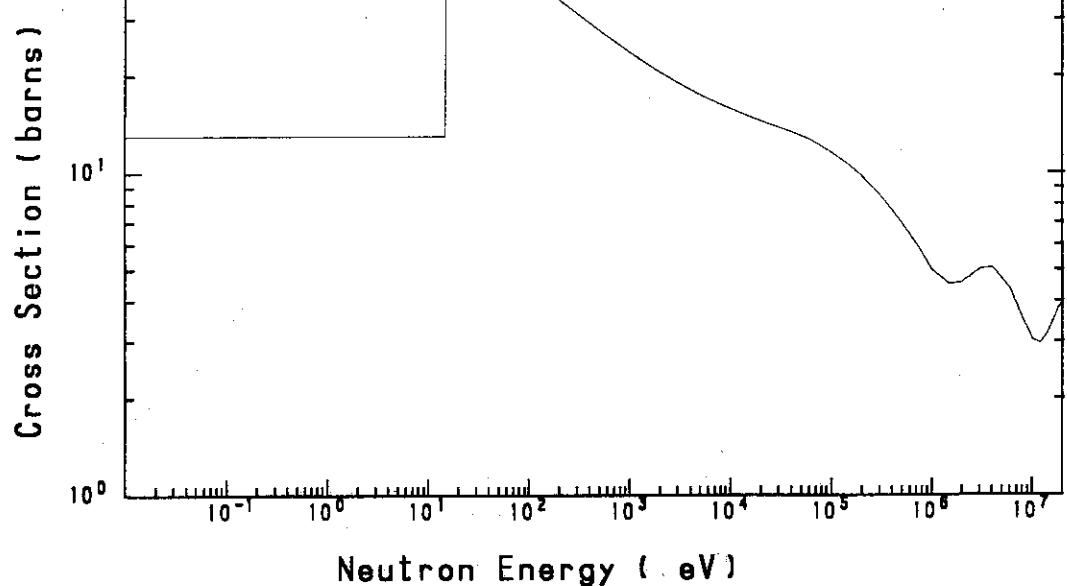
^{234}Th
TOTAL

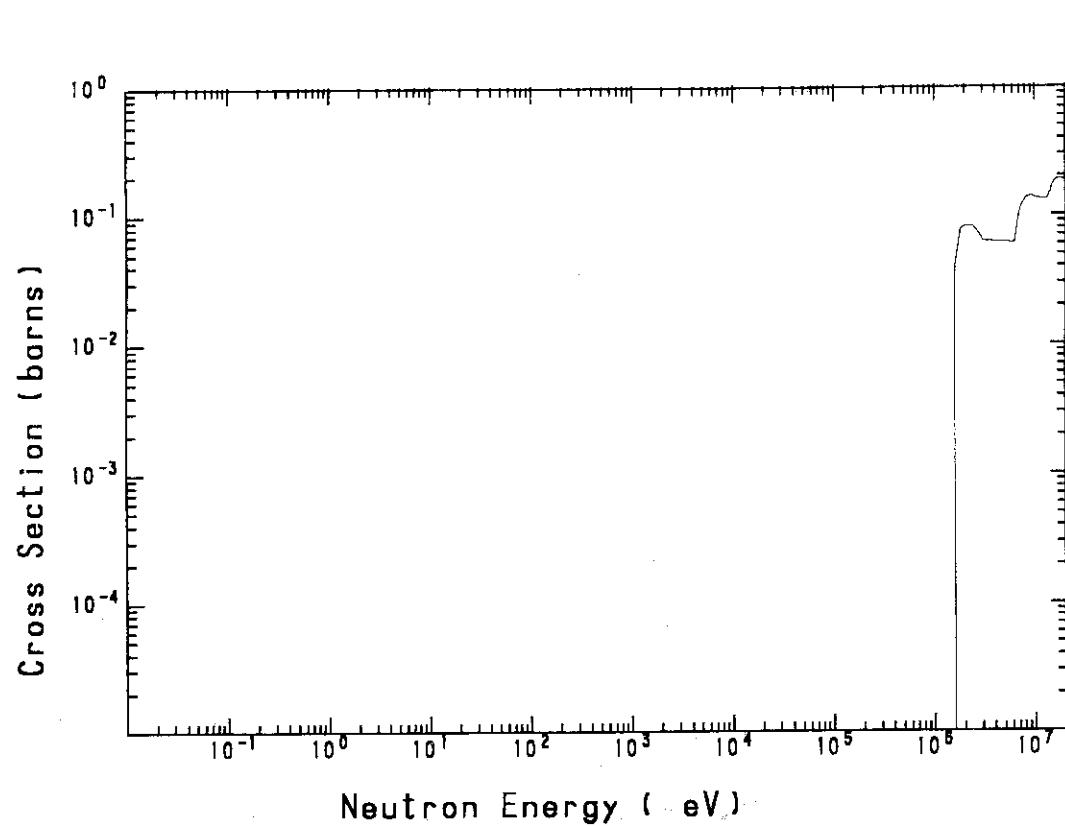
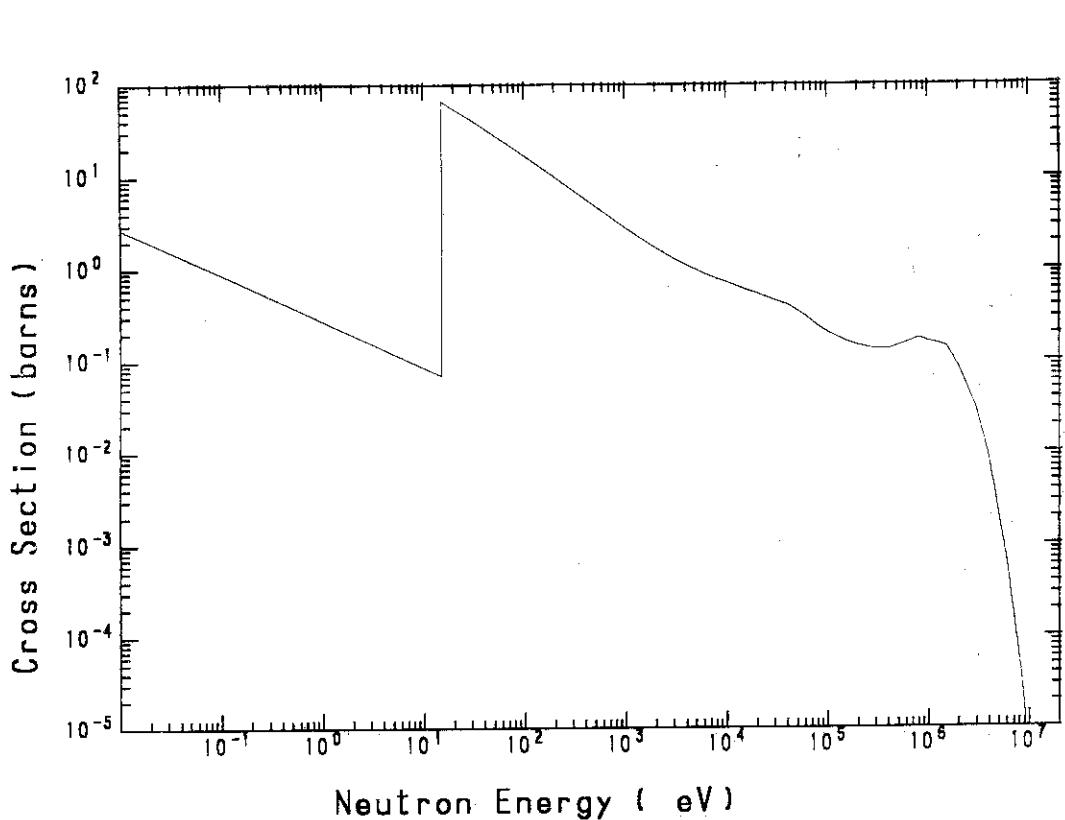
MAT=2905
MT = 1



^{234}Th
(n, n)

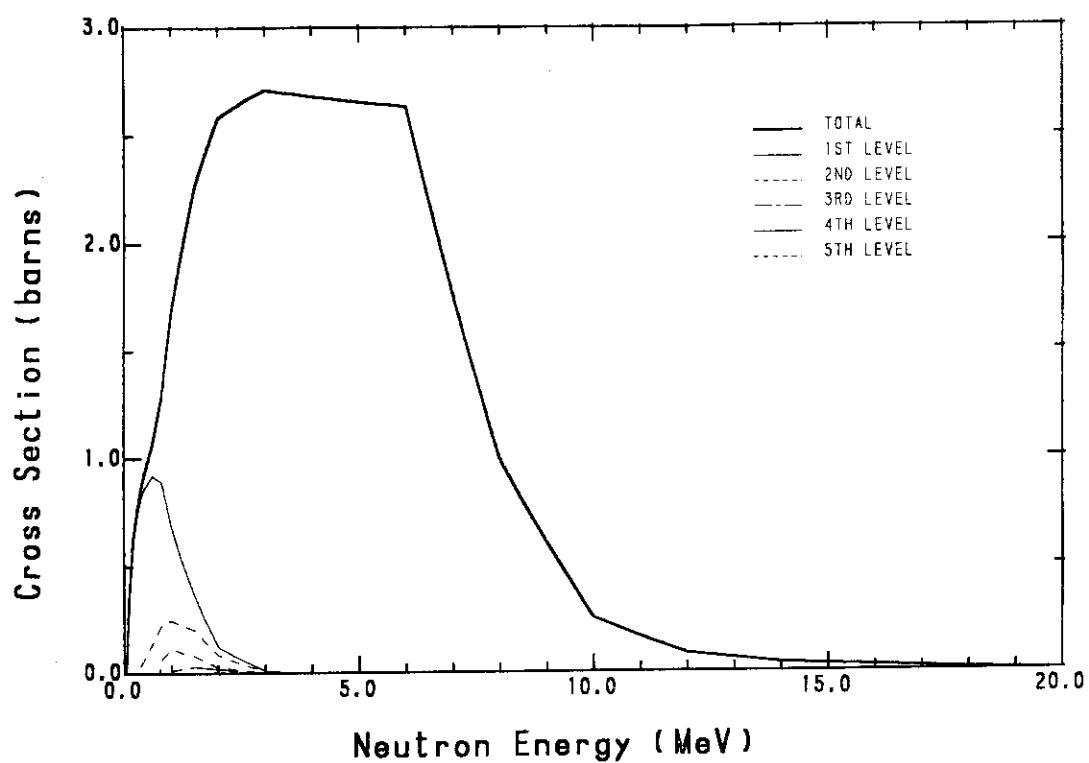
MAT=2905
MT = 2





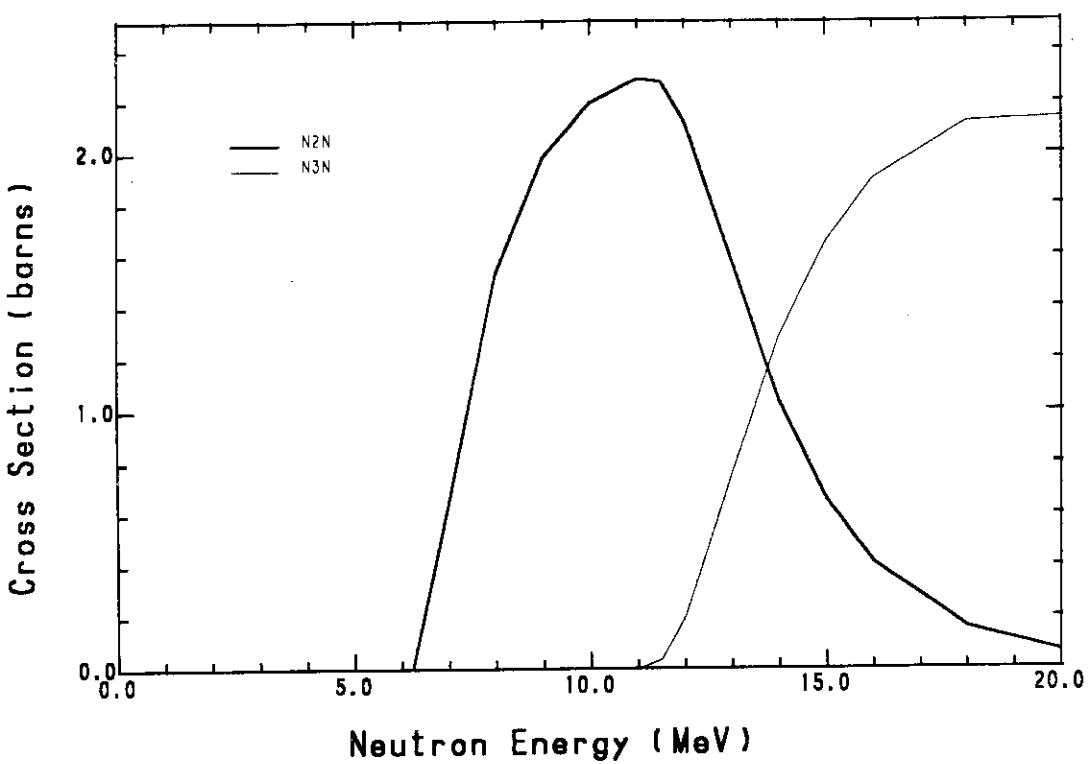
^{234}Th
 (n, n')

MAT=2905
MT= 4
51~55

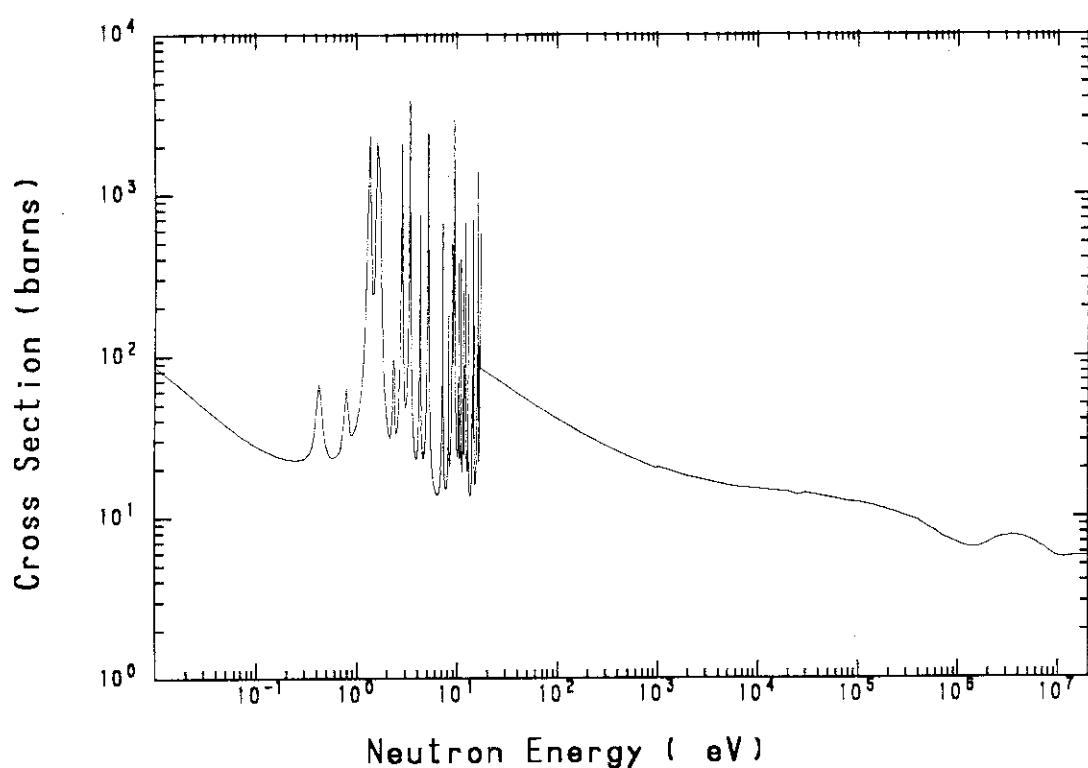


^{234}Th
 $(n, 2n)$
 $(n, 3n)$

MAT=2905
MT= 16
17

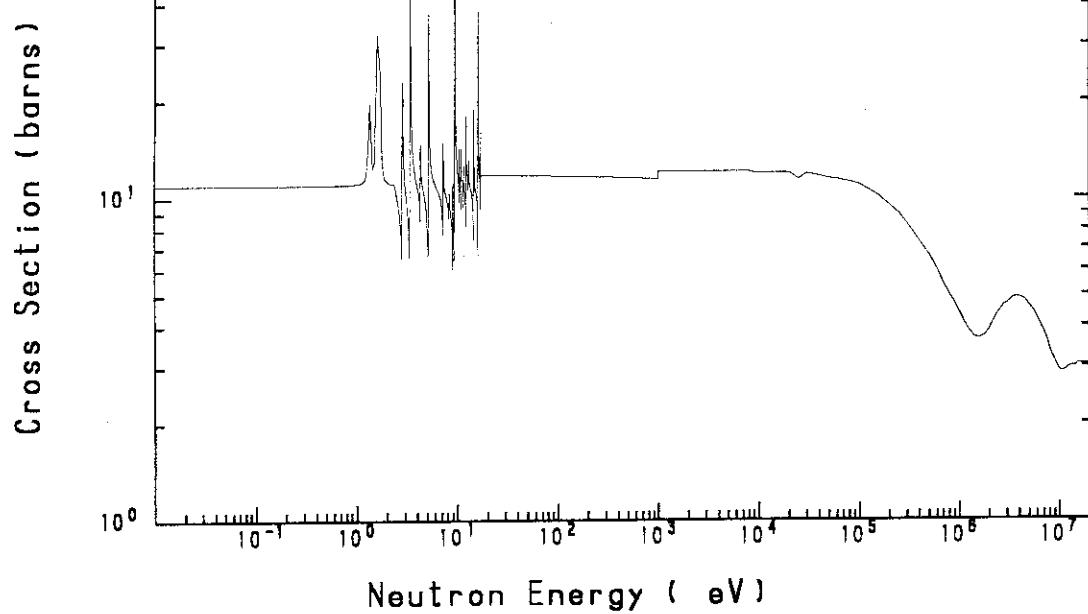


233 Pa
TOTAL



MAT=2911
MT= 1

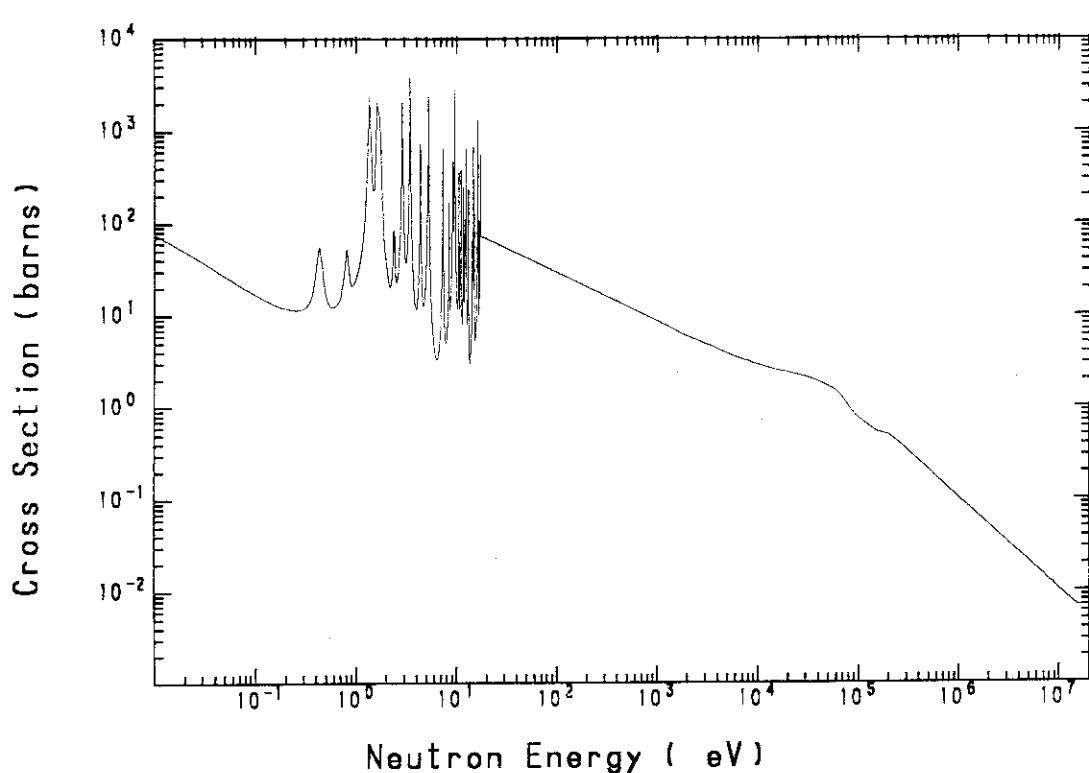
233 Pa
(n, n)



MAT=2911
MT= 2

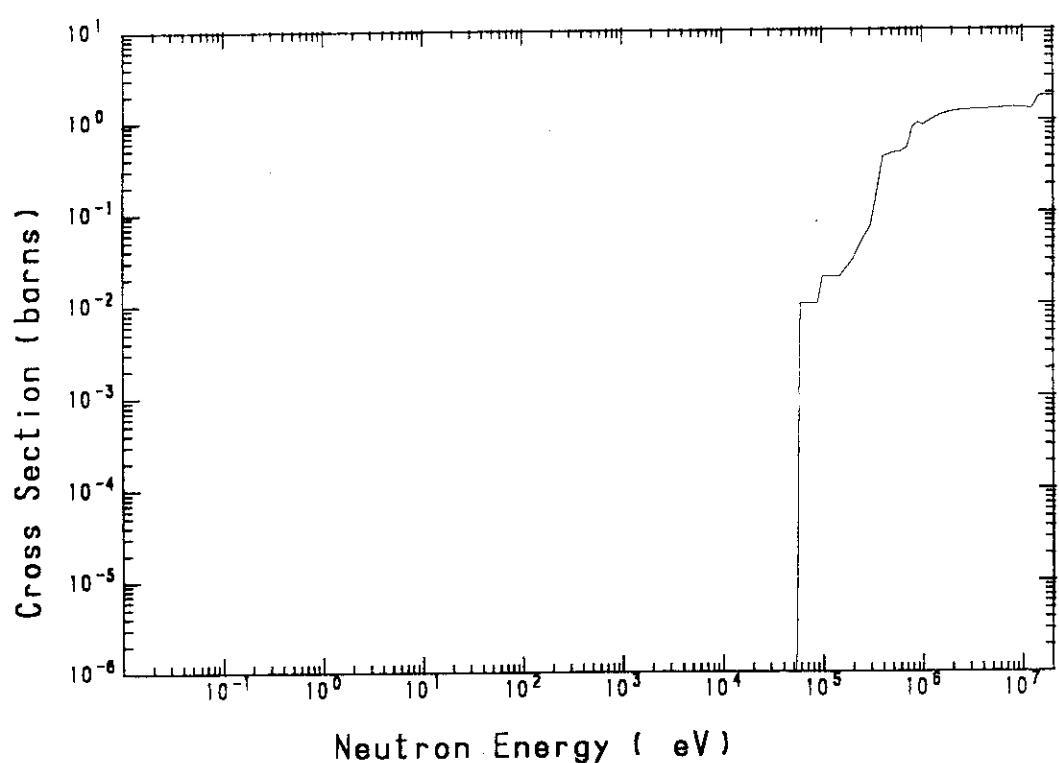
^{233}Pa
 (n, γ)

MAT=2911
MT = 102

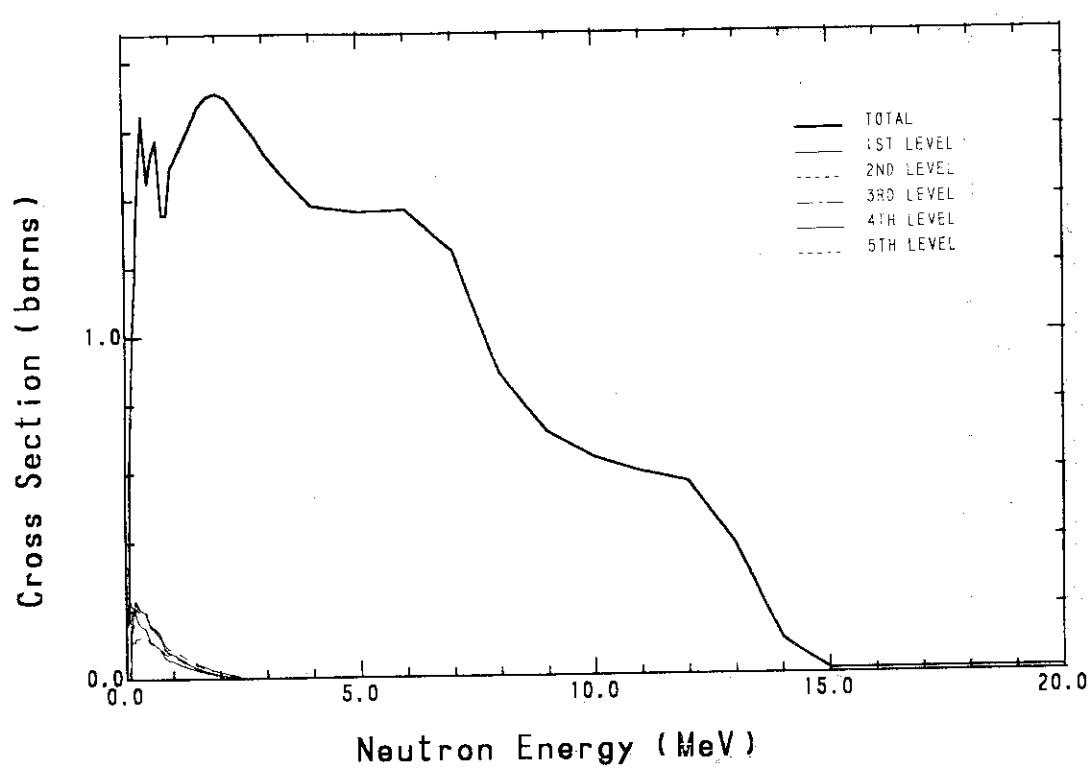


^{233}Pa
 (n, f)

MAT=2911
MT = 18

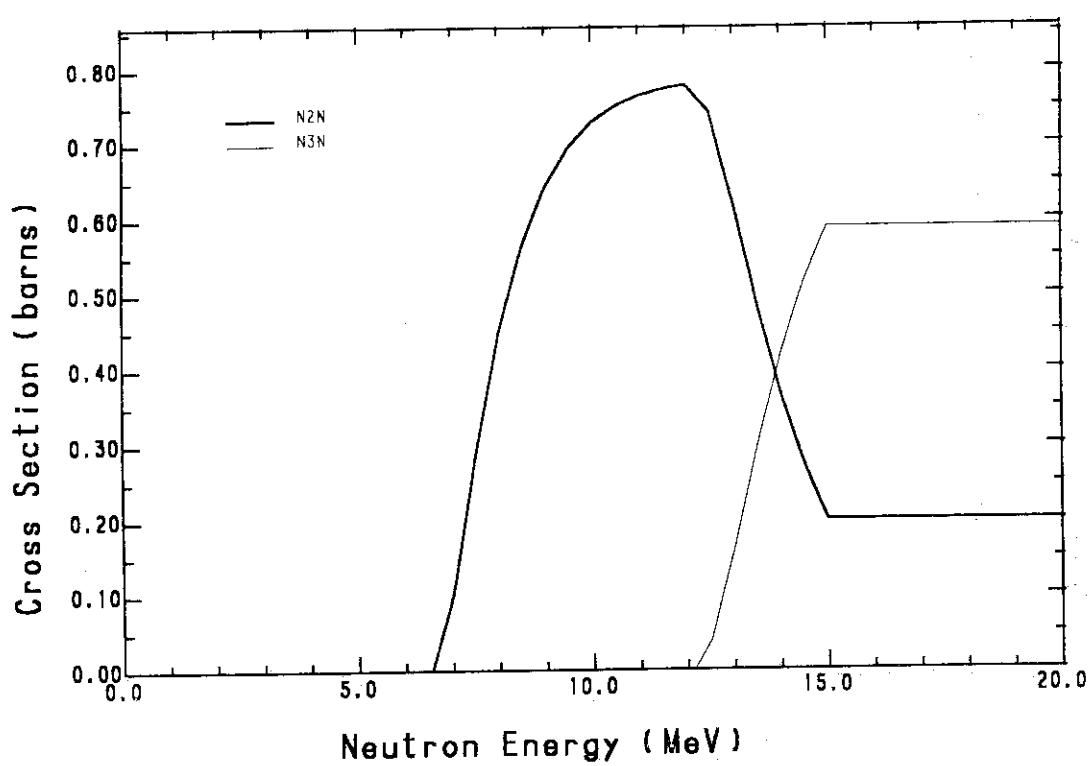


^{233}Pa
 (n, n')



MAT=2911
MT= 4
51~55

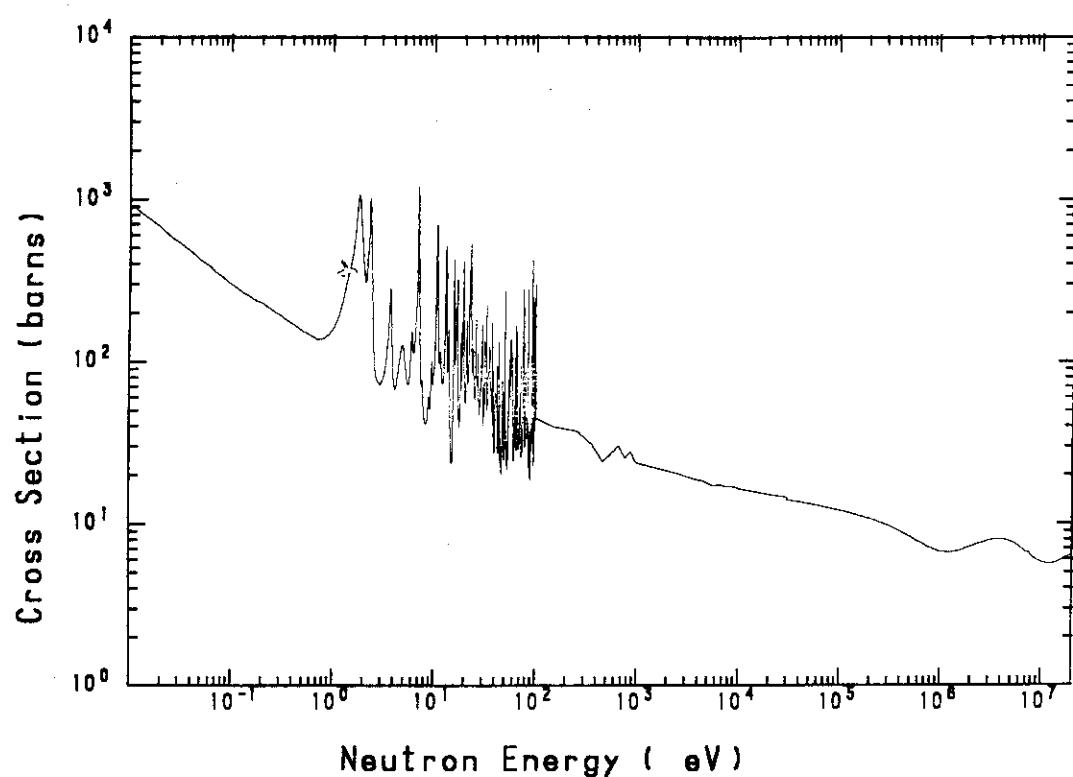
^{233}Pa
 $(n, 2n)$
 $(n, 3n)$



MAT=2911
MT= 16
17

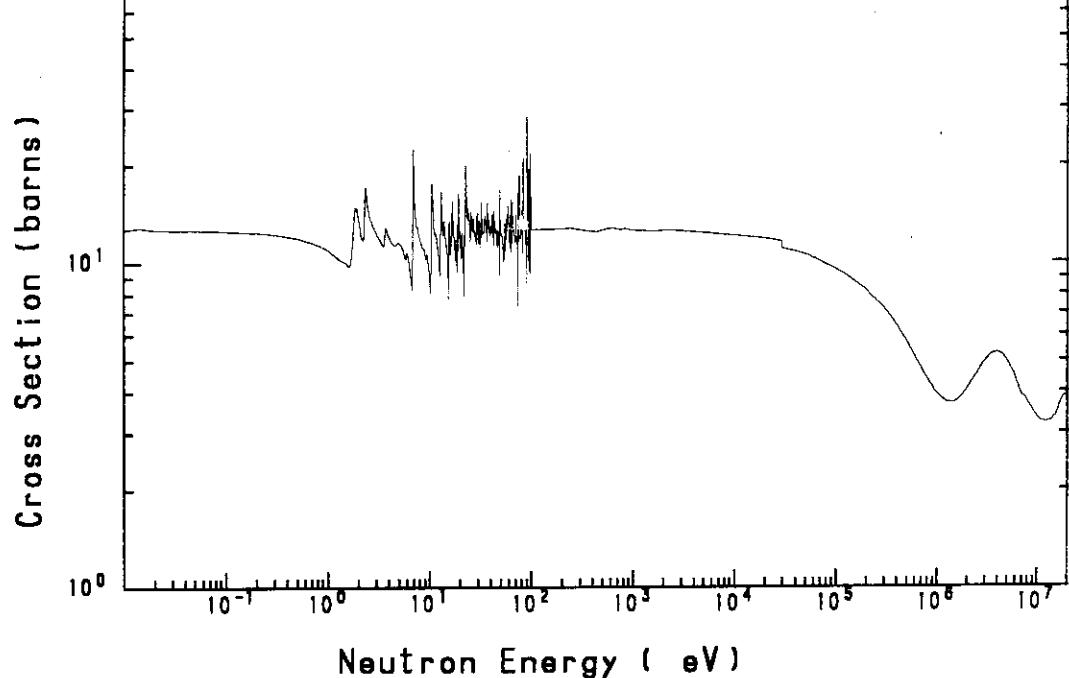
233 U
TOTAL

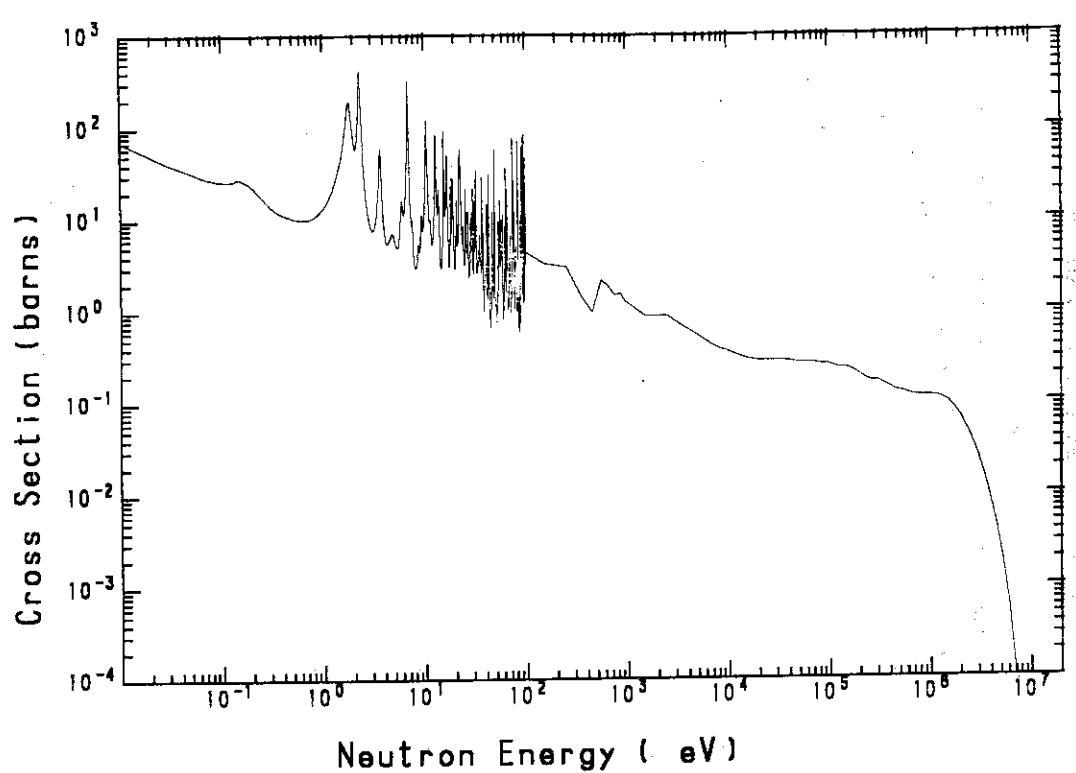
MAT=2921
MT= 1



233 U
(n, n)

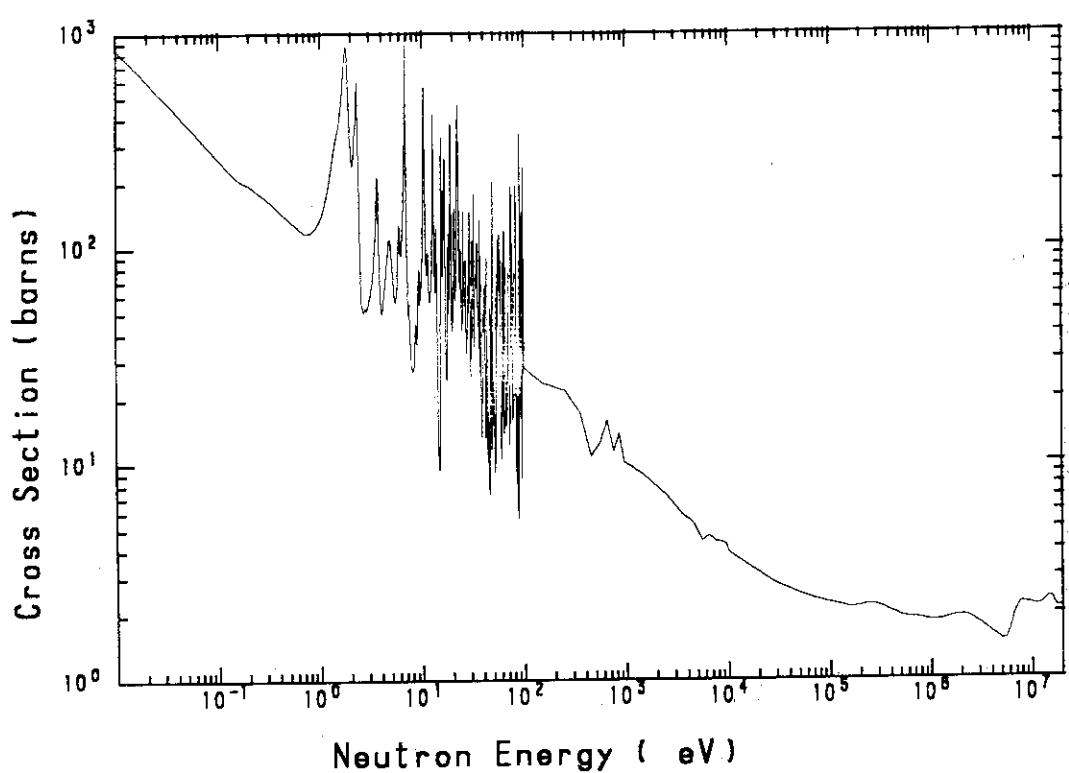
MAT=2921
MT= 2





^{233}U
 (n, γ)

MAT = 2921
MT = 102

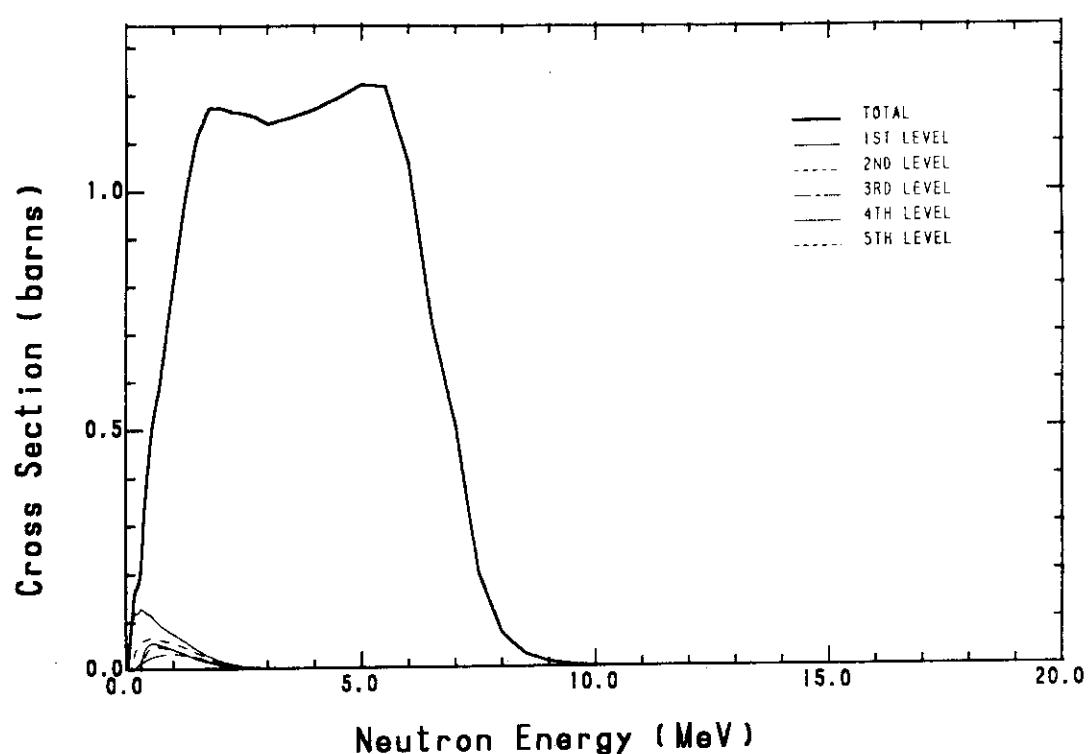


^{233}U
 (n, f)

MAT = 2921
MT = 18

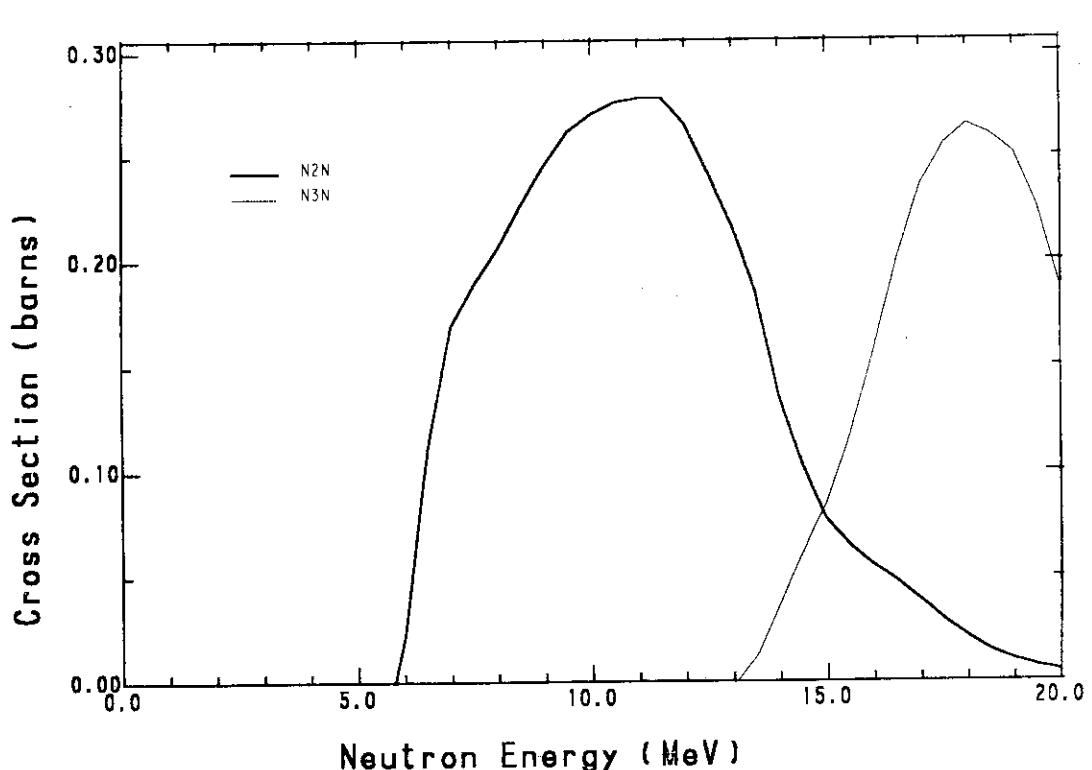
^{233}U
(n, n')

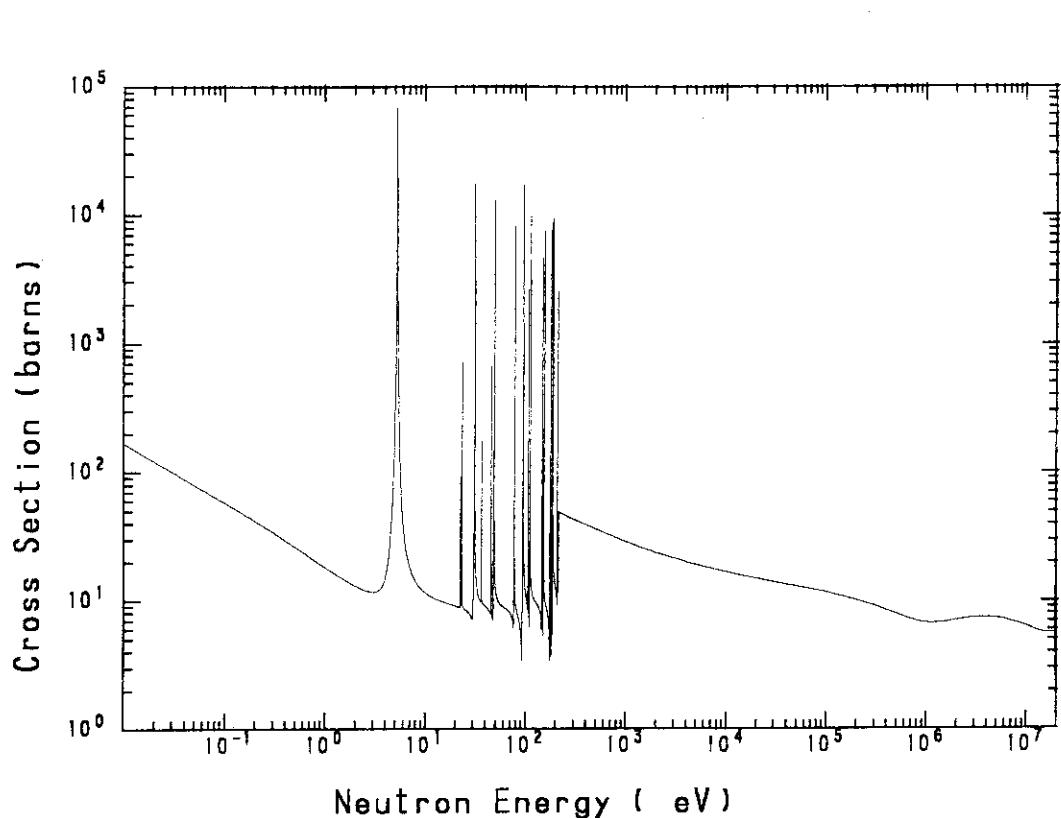
MAT=2921
MT= 4
51~55



^{233}U
($n, 2n$)
($n, 3n$)

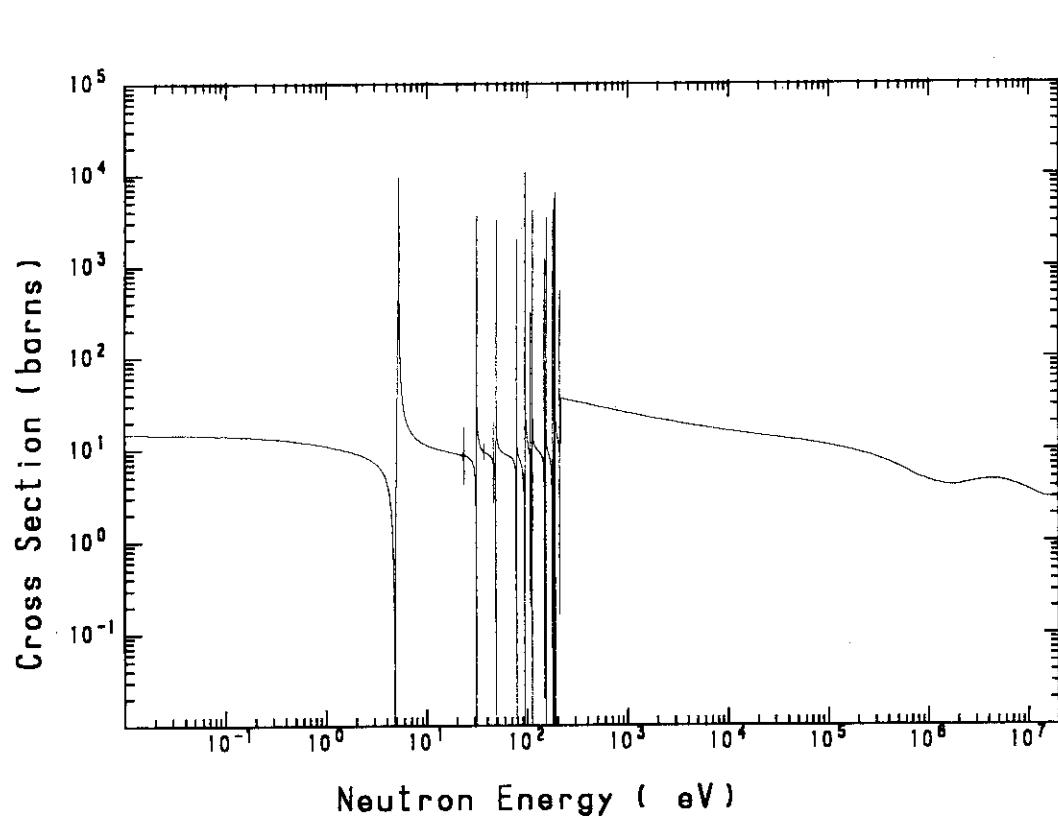
MAT=2921
MT= 16
17





^{234}U
TOTAL

MAT=2922
MT= 1

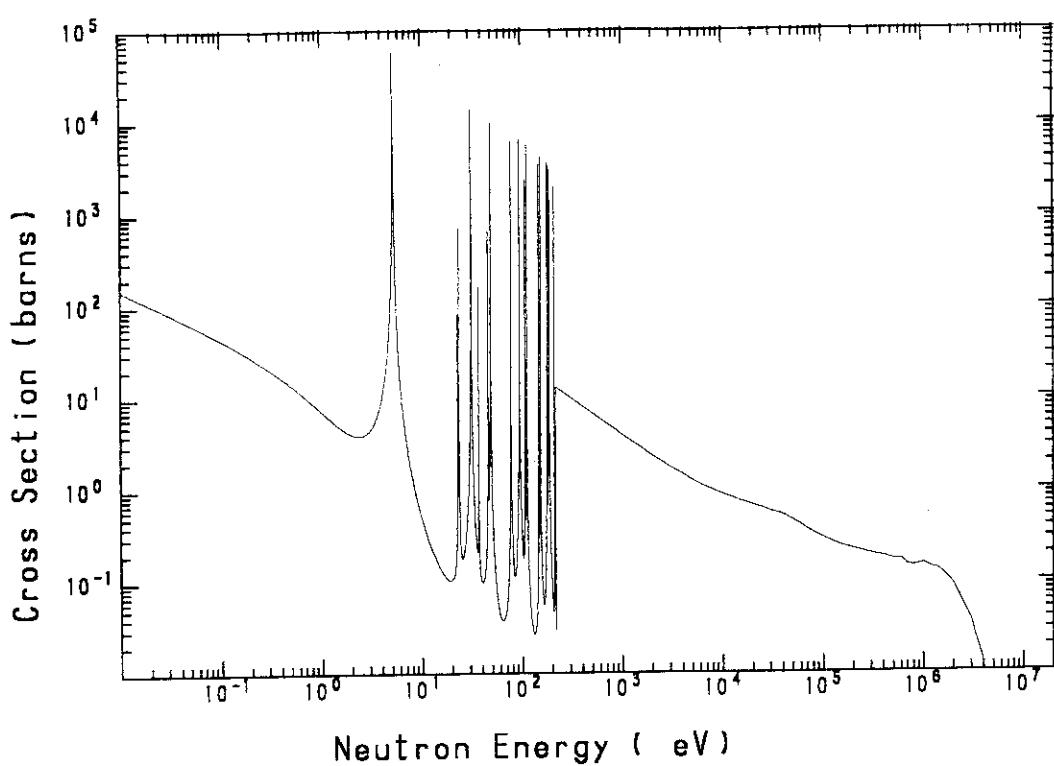


^{234}U
(n, n)

MAT=2922
MT= 2

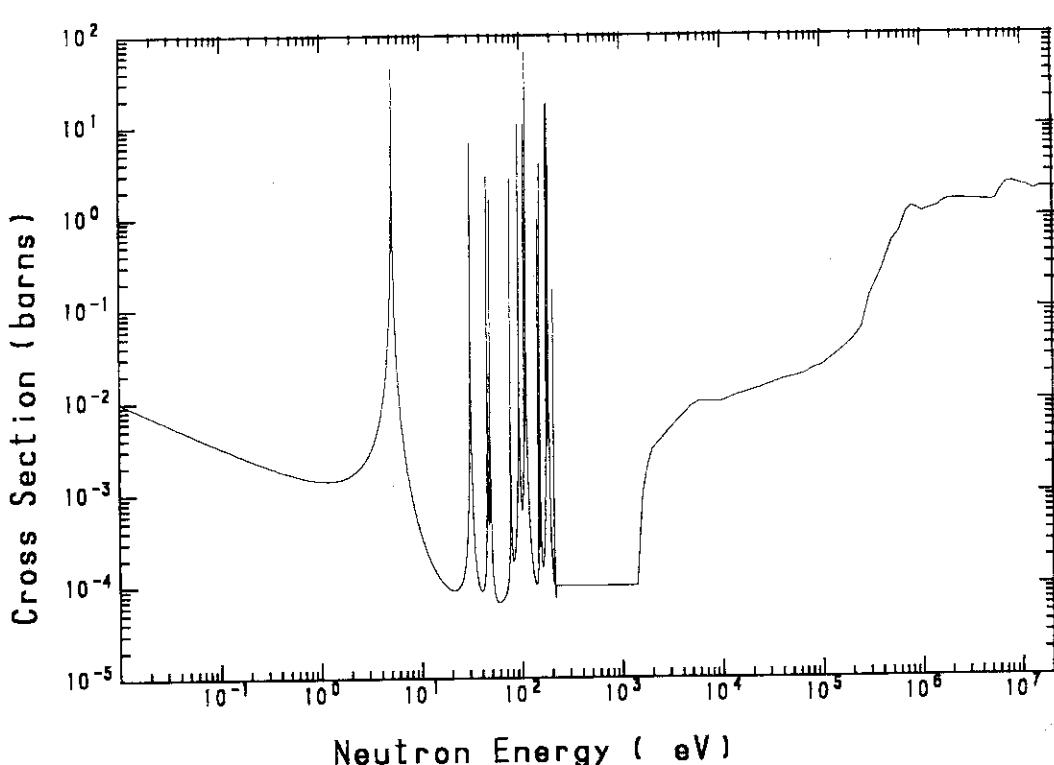
^{234}U
 (n, γ)

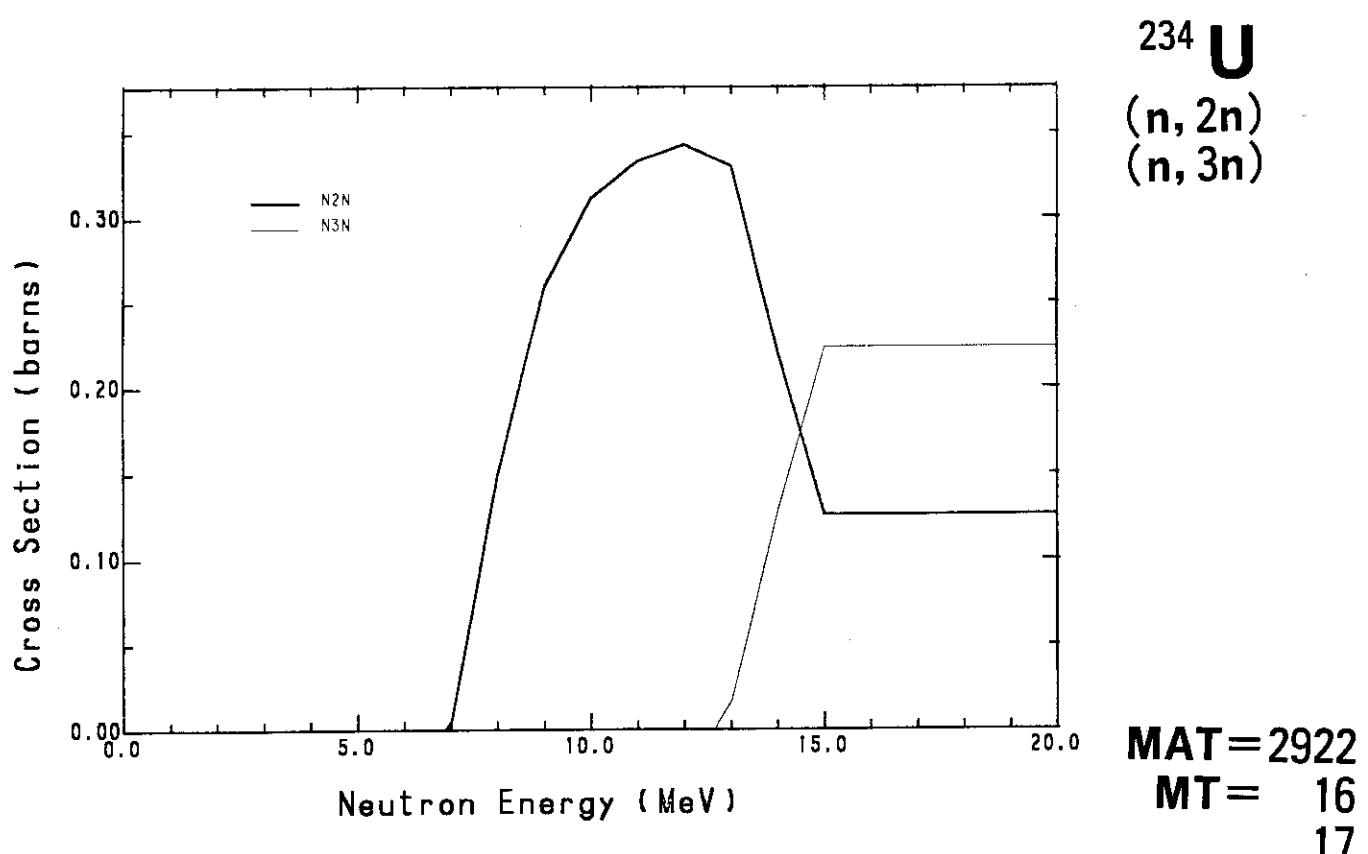
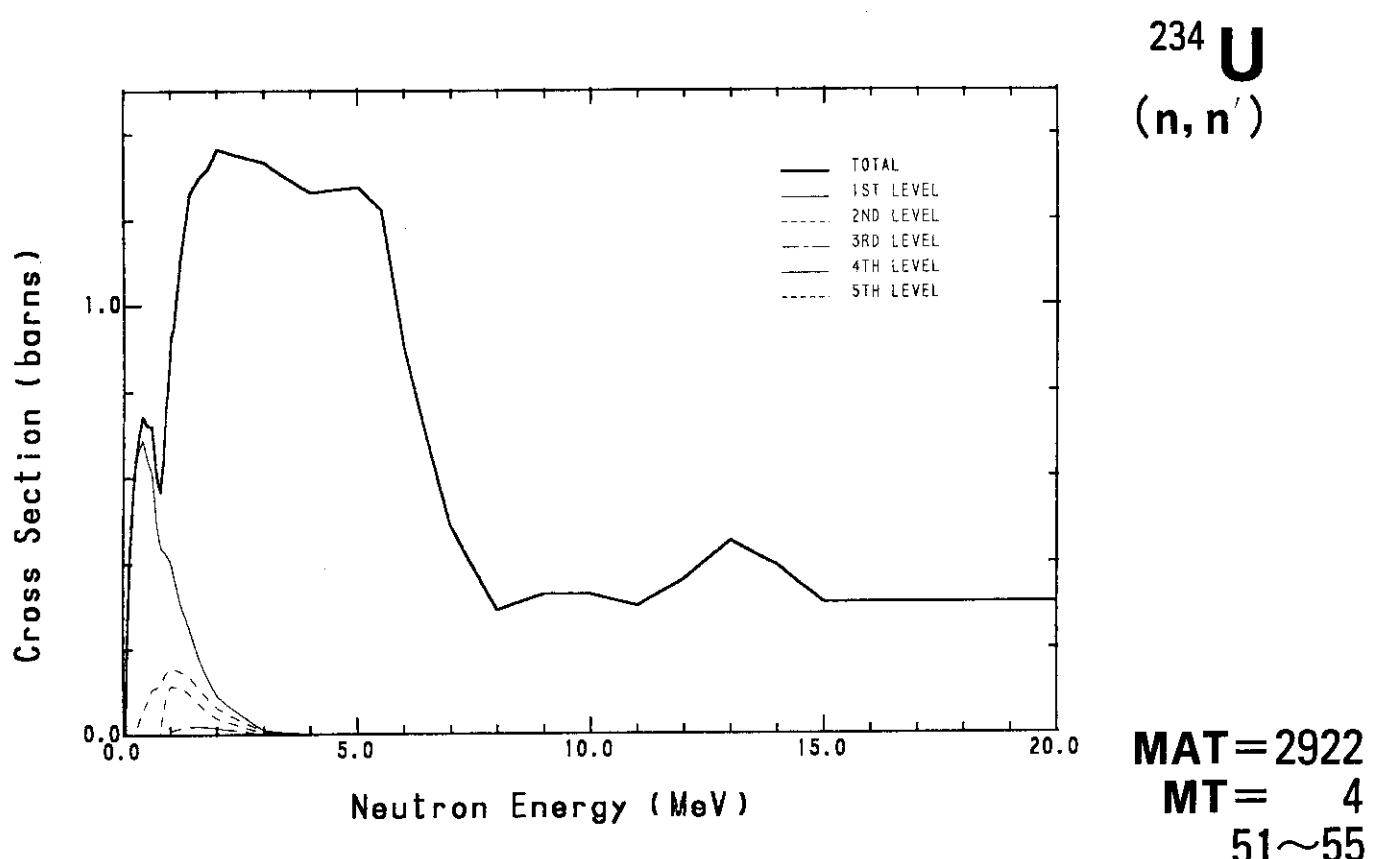
MAT=2922
MT= 102



^{234}U
 (n, f)

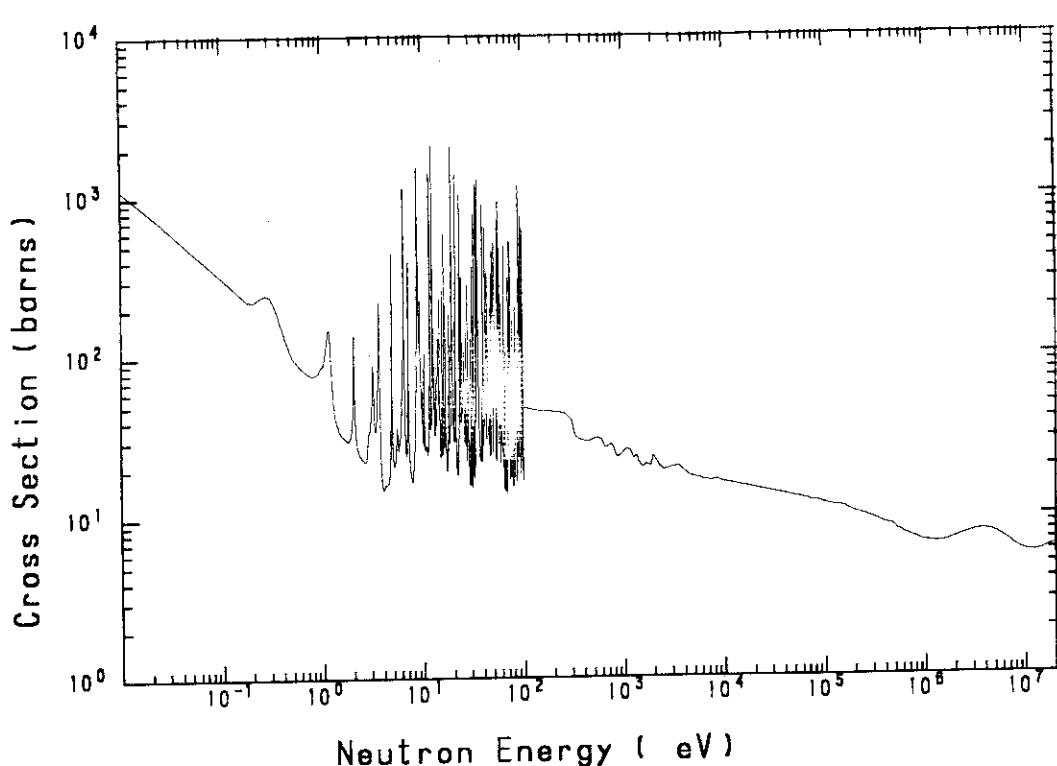
MAT=2922
MT= 18



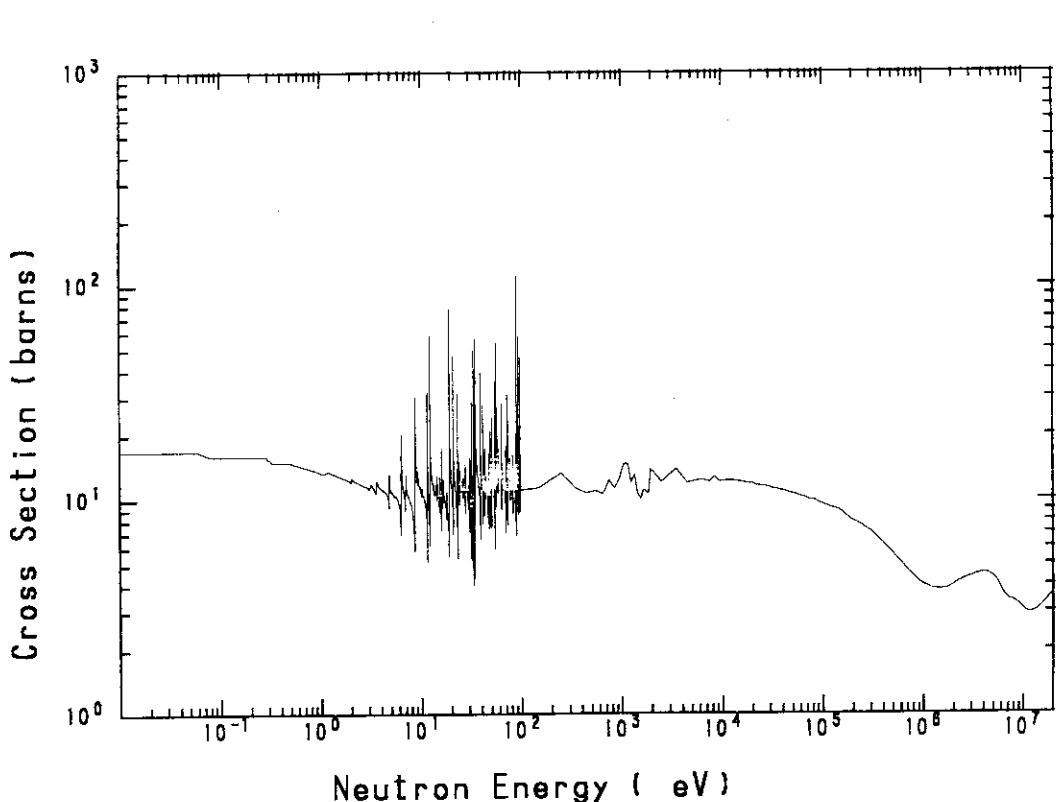


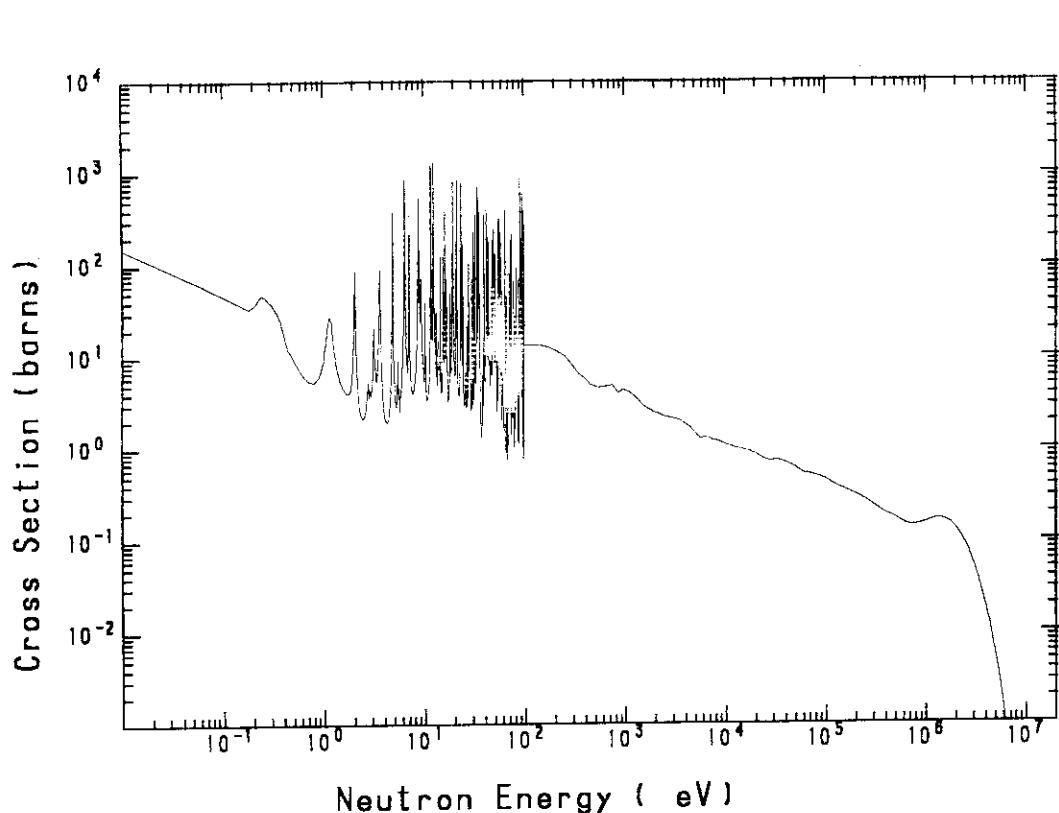
235 U
TOTAL

MAT=2923
MT= 1



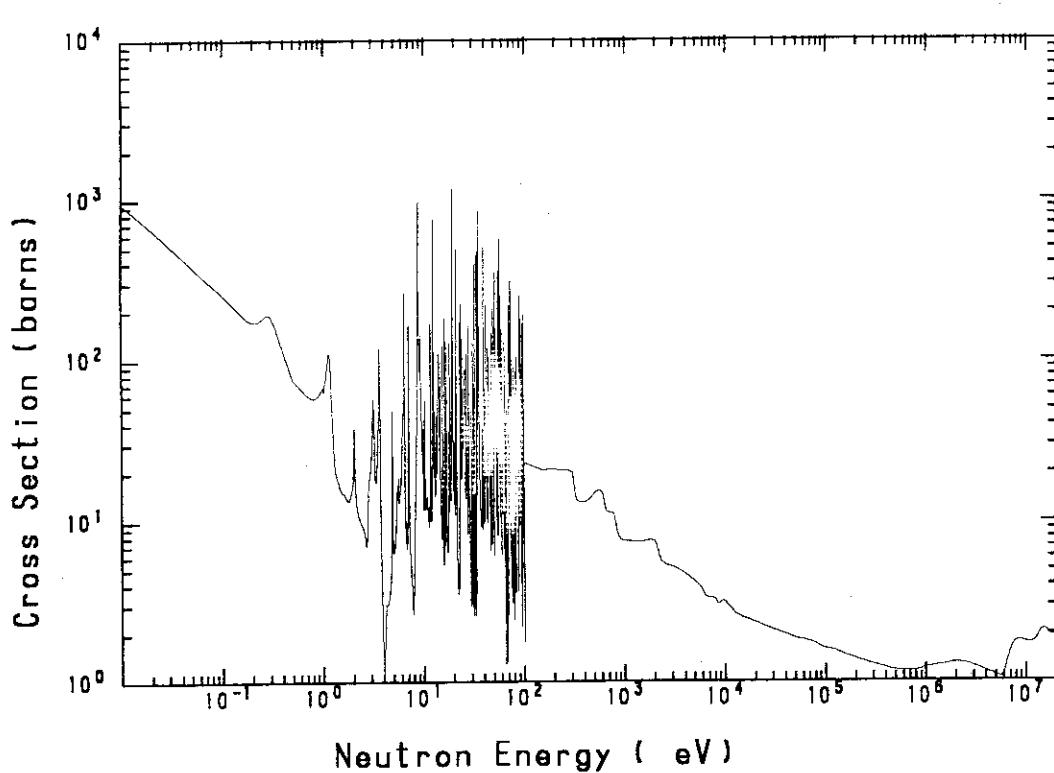
MAT=2923
MT= 2





^{235}U
(n, γ)

MAT=2923
MT= 102

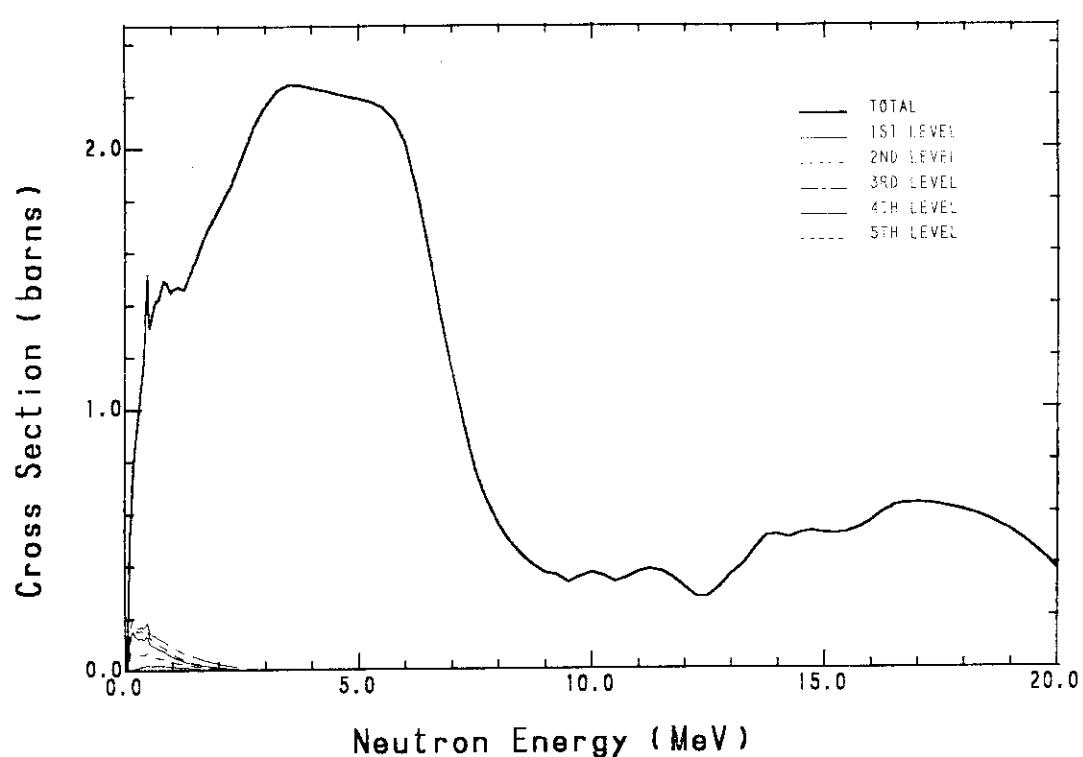


^{235}U
(n, f)

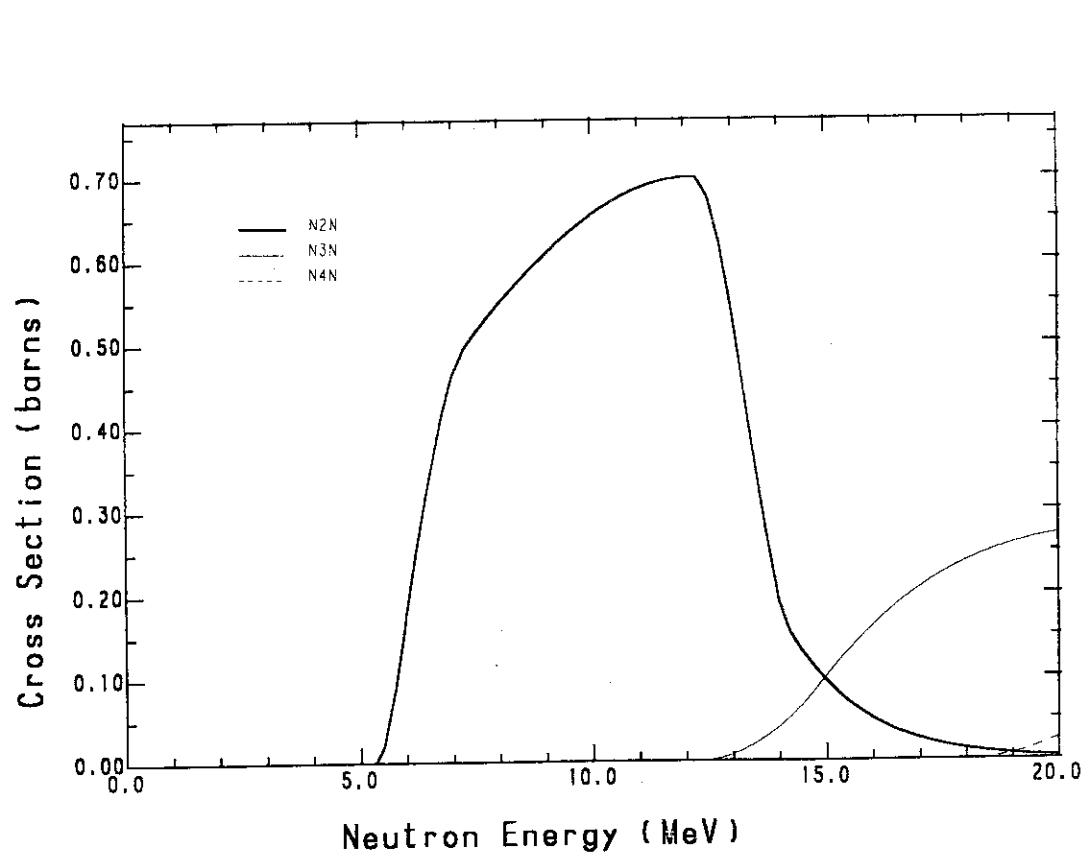
MAT=2923
MT= 18

^{235}U
 (n, n')

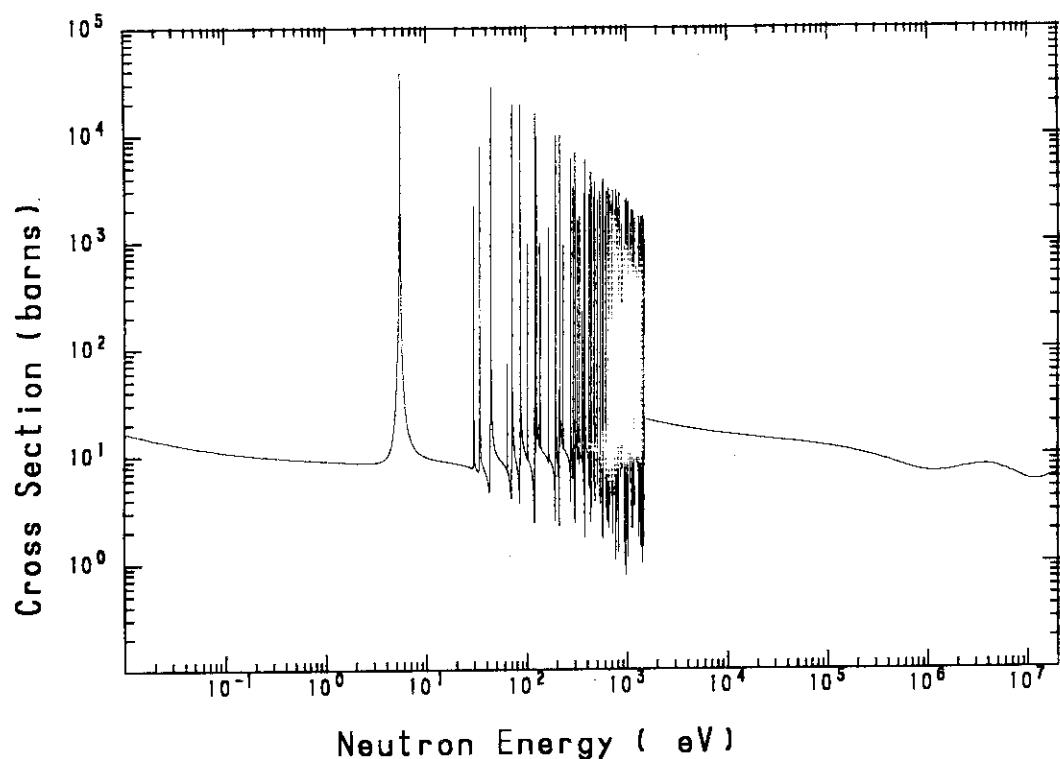
MAT=2923
MT= 4
51~55



MAT=2923
MT= 16
17
37

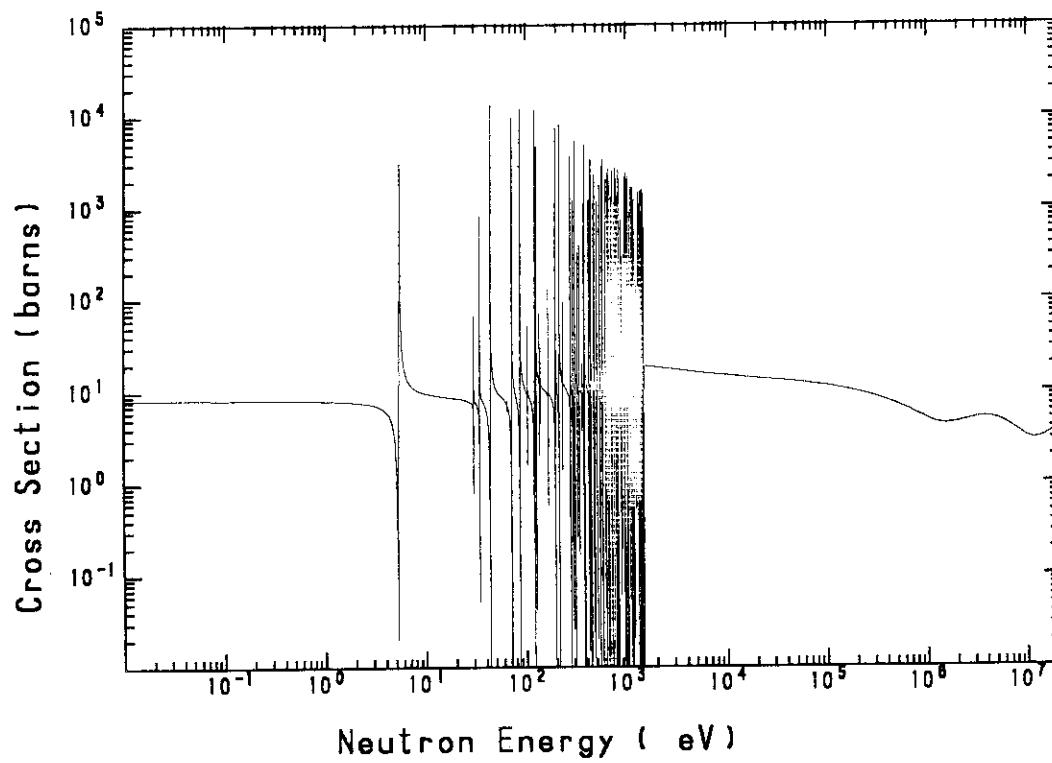


236 U
TOTAL



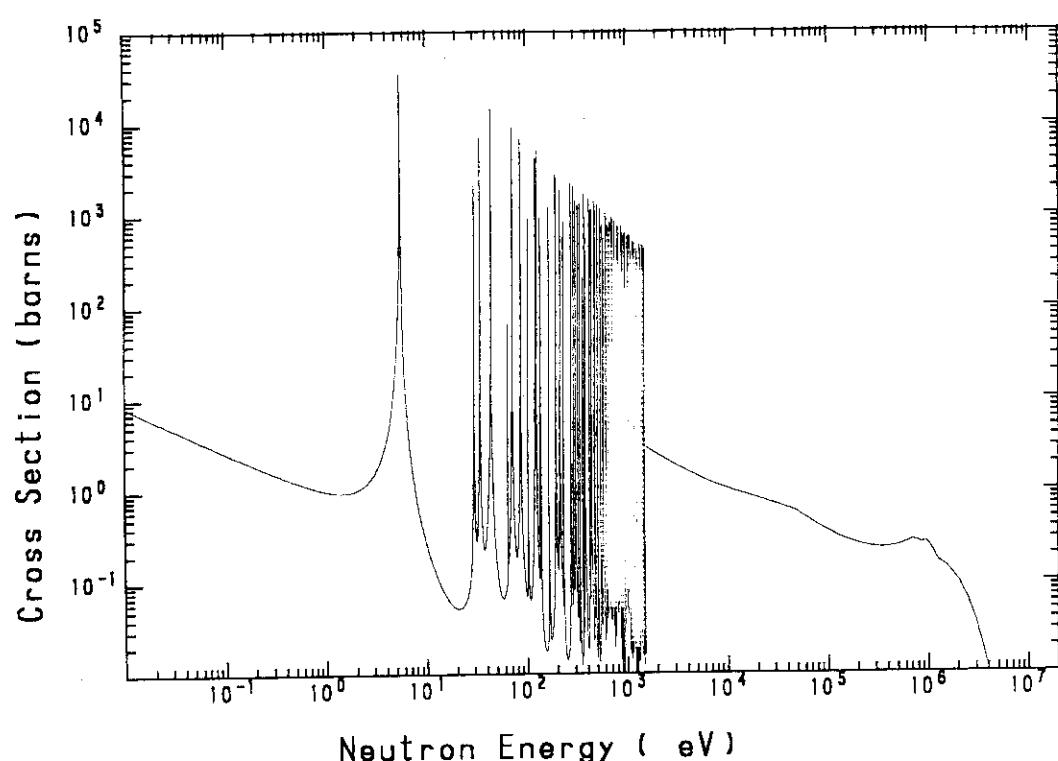
MAT=2924
MT= 1

236 U
(n, n)



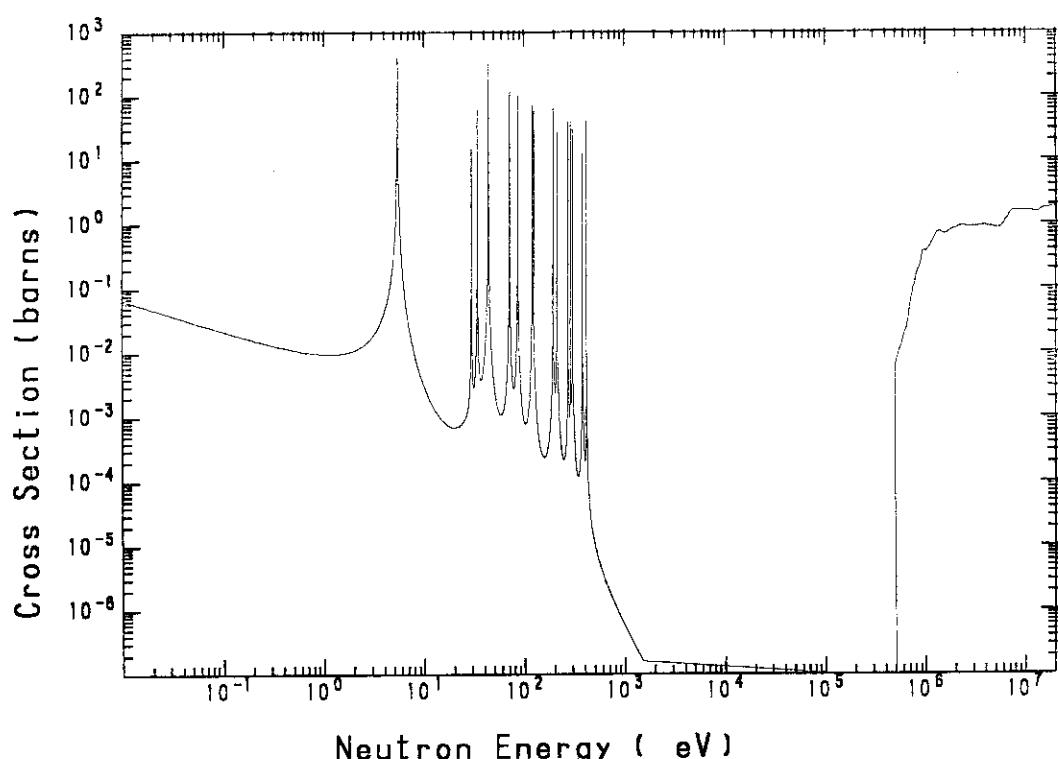
MAT=2924
MT= 2

^{236}U
 (n, γ)

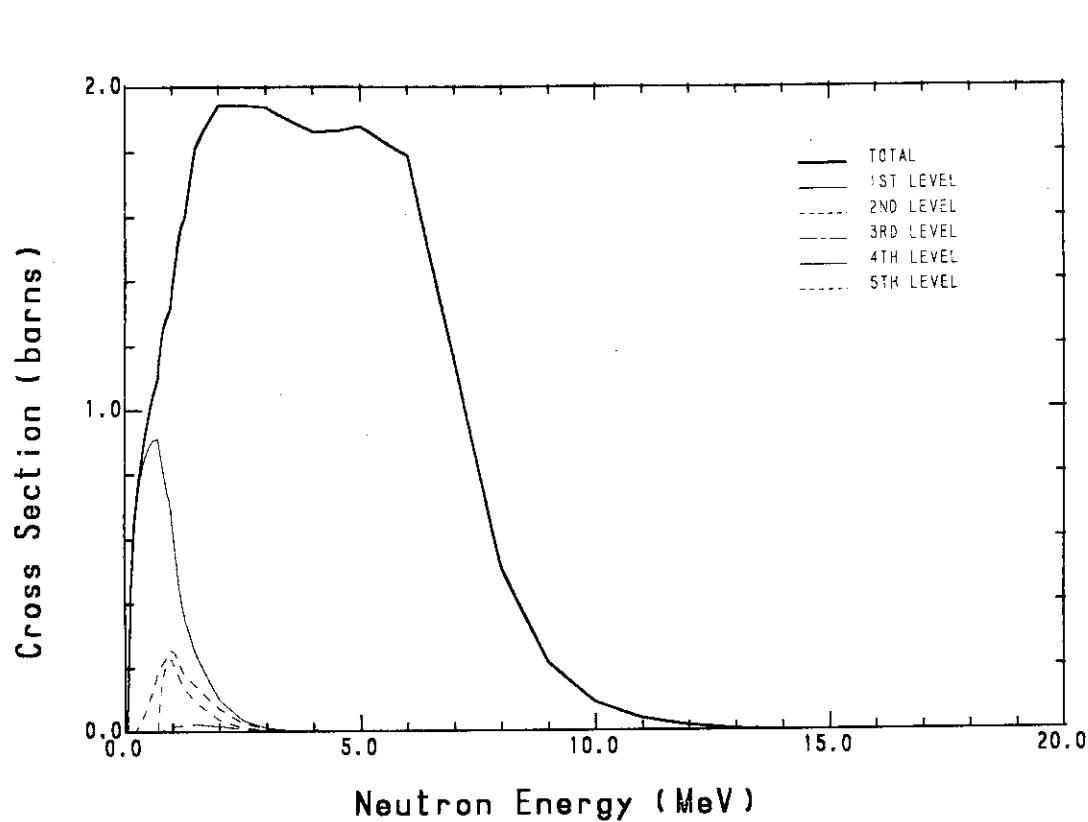


MAT=2924
MT = 102

^{236}U
 (n, f)

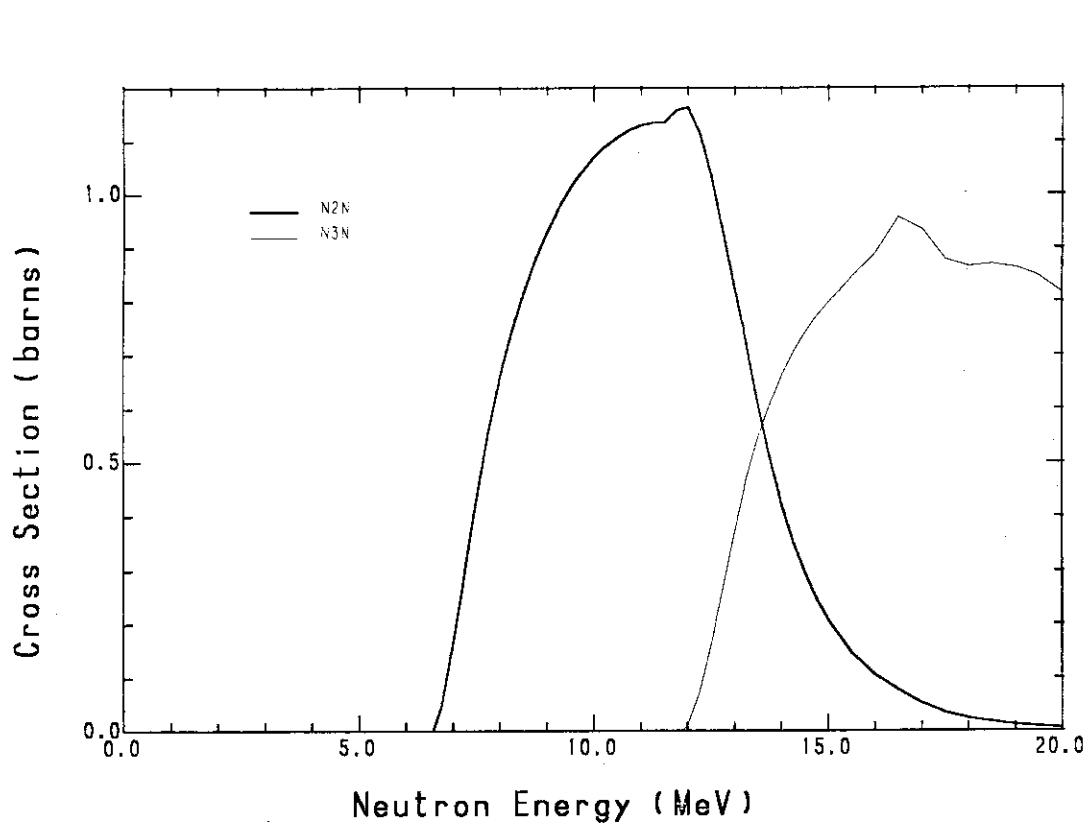


MAT=2924
MT = 18



^{236}U
(n, n')

MAT=2924
MT= 4
51~55

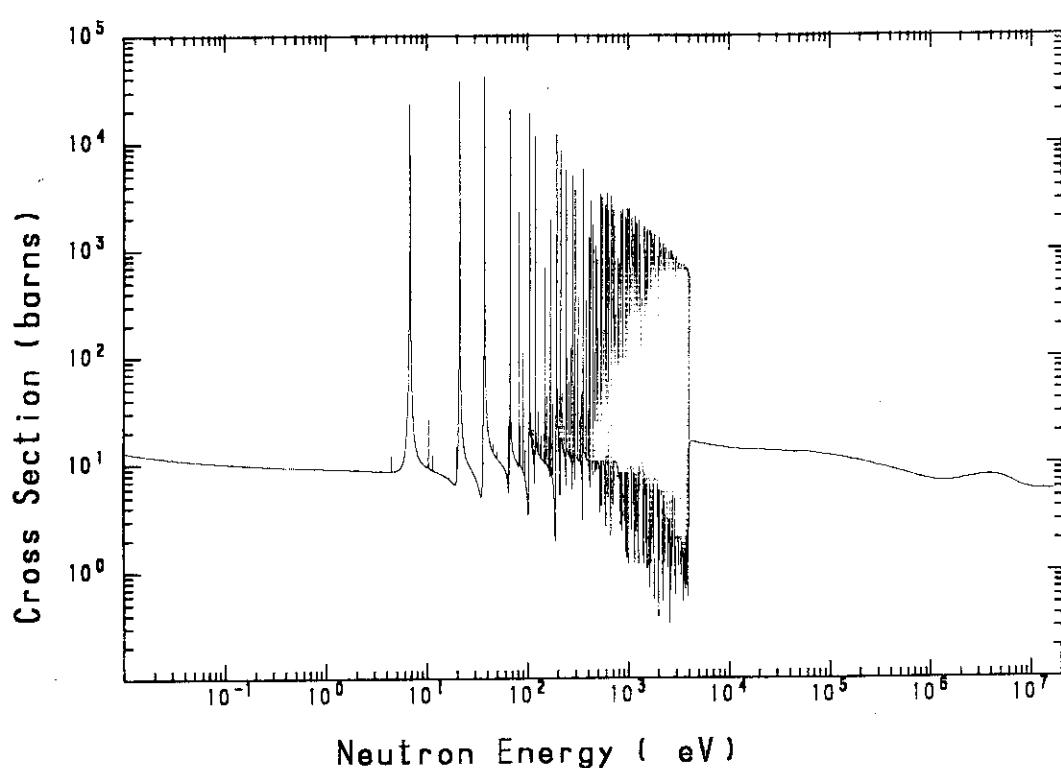


^{236}U
($n, 2n$)
($n, 3n$)

MAT=2924
MT= 16
17

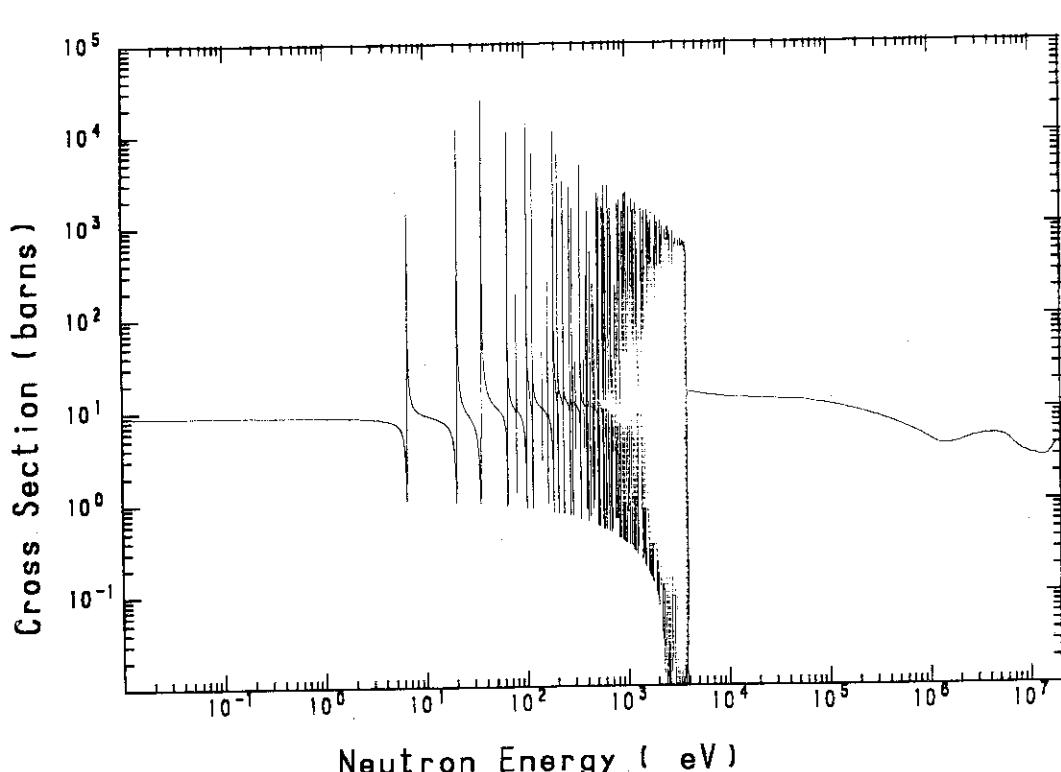
^{238}U
TOTAL

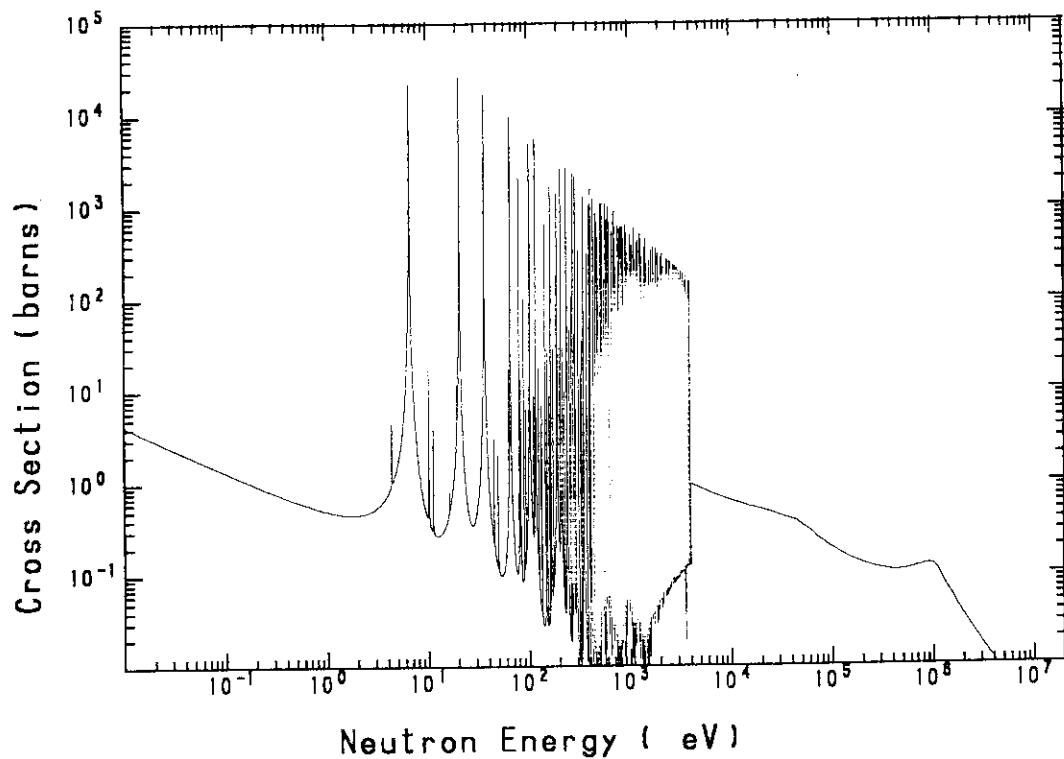
MAT=2925
MT= 1



^{238}U
(n, n)

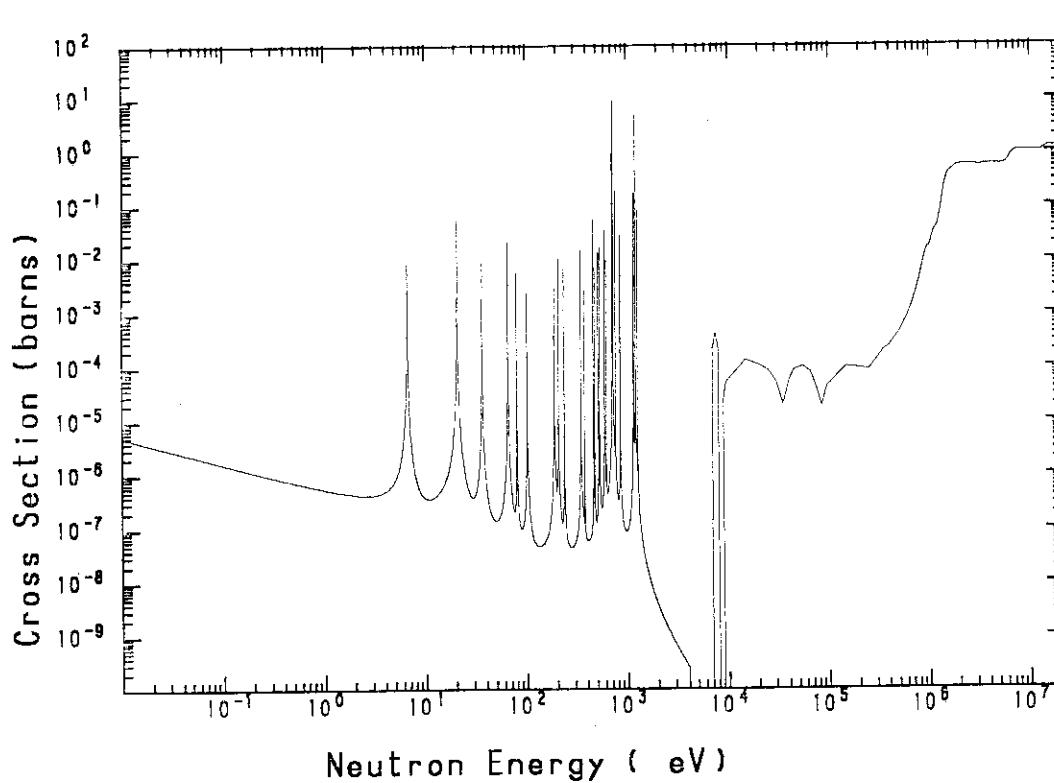
MAT=2925
MT= 2





^{238}U
(n, γ)

MAT=2925
MT= 102

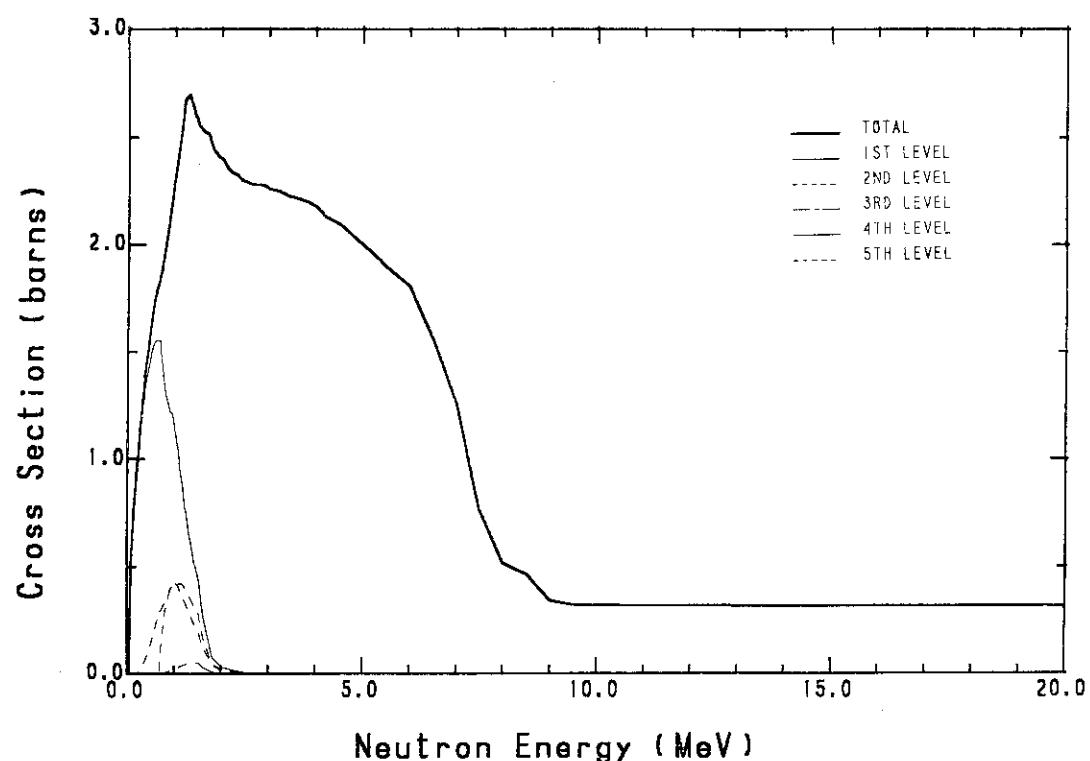


^{238}U
(n, f)

MAT=2925
MT= 18

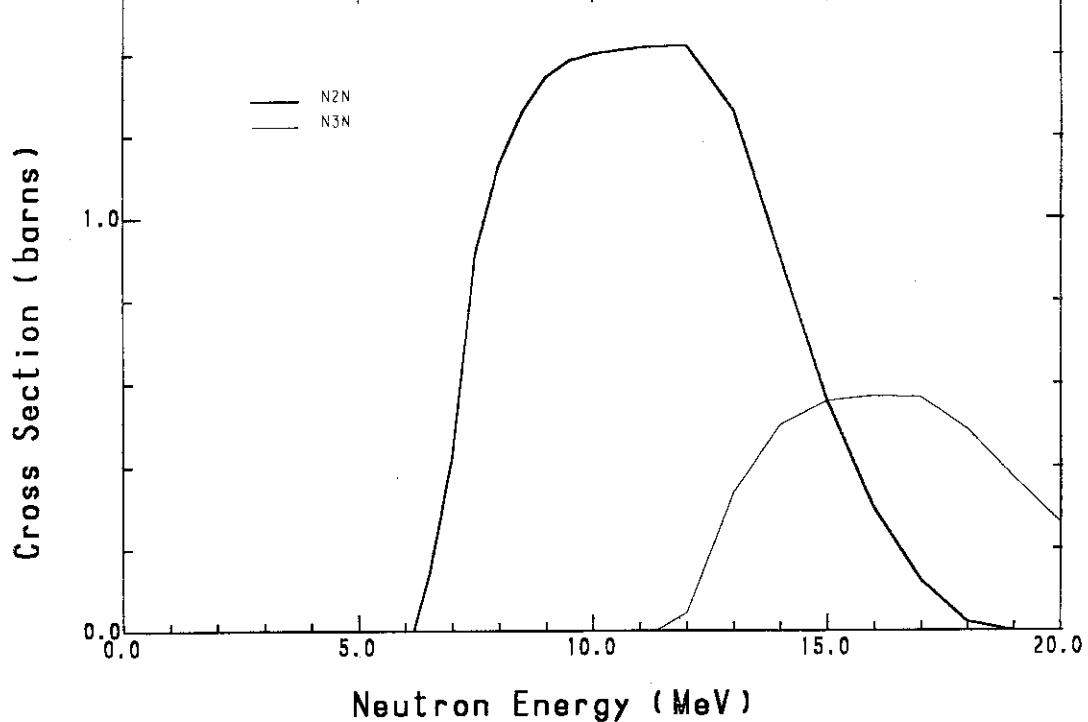
^{238}U
 (n, n')

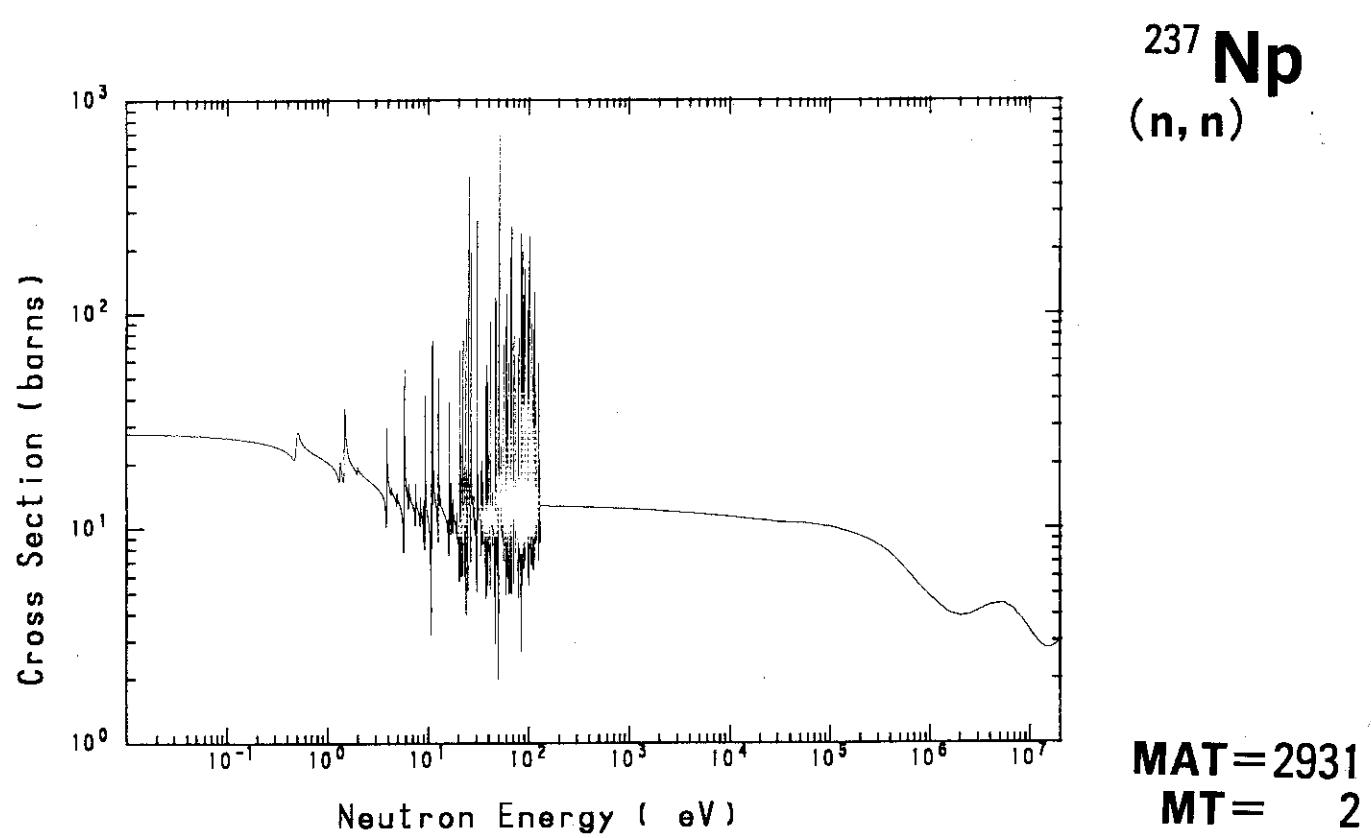
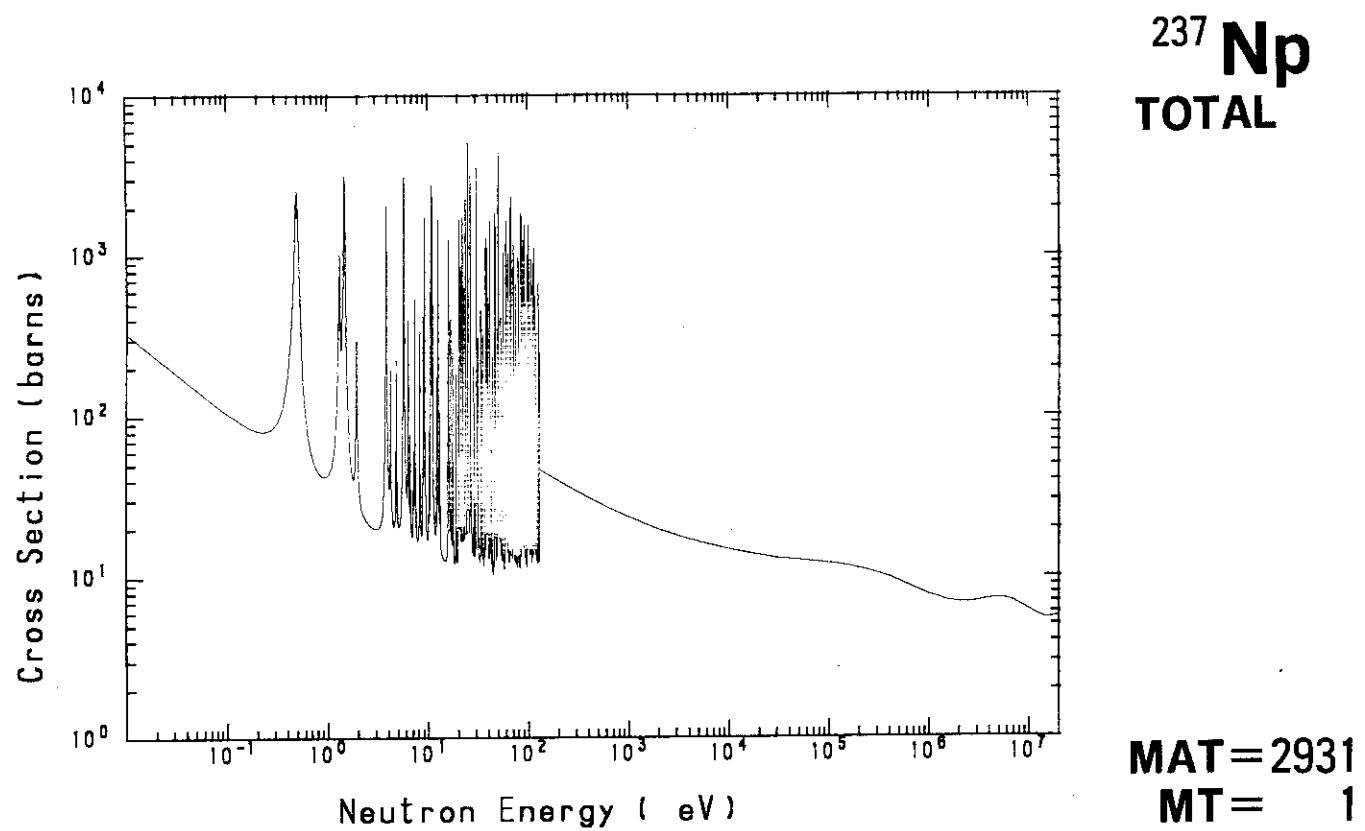
MAT=2925
MT= 4
51~55



^{238}U
 $(n, 2n)$
 $(n, 3n)$

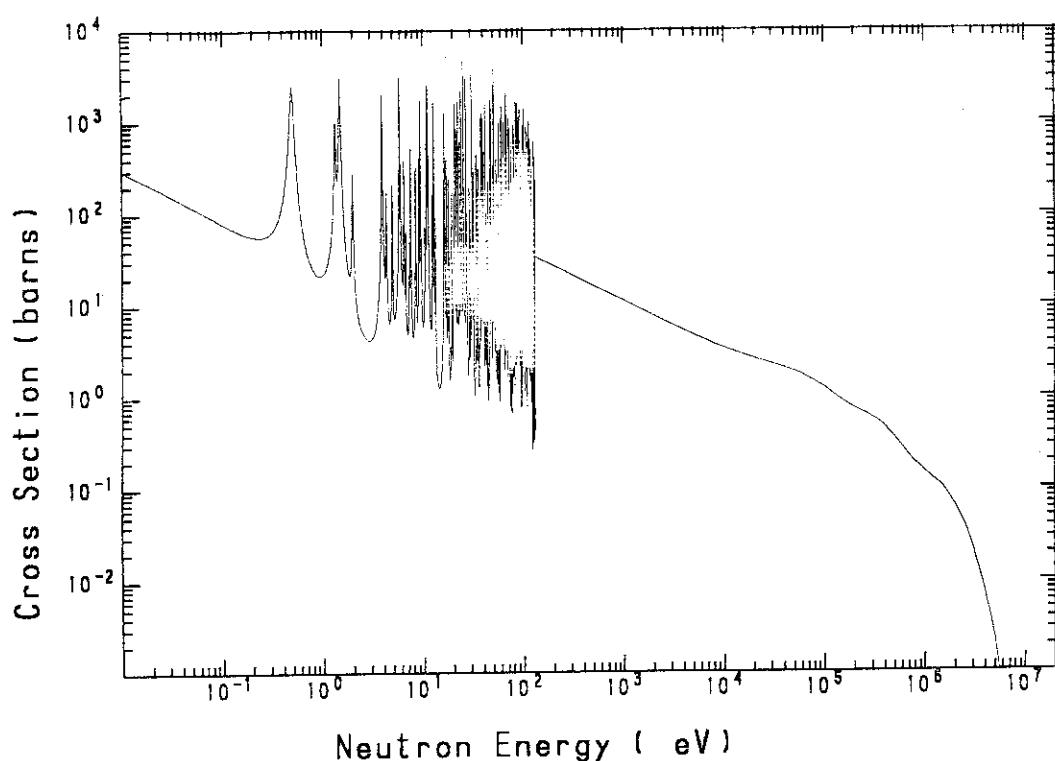
MAT=2925
MT= 16
17





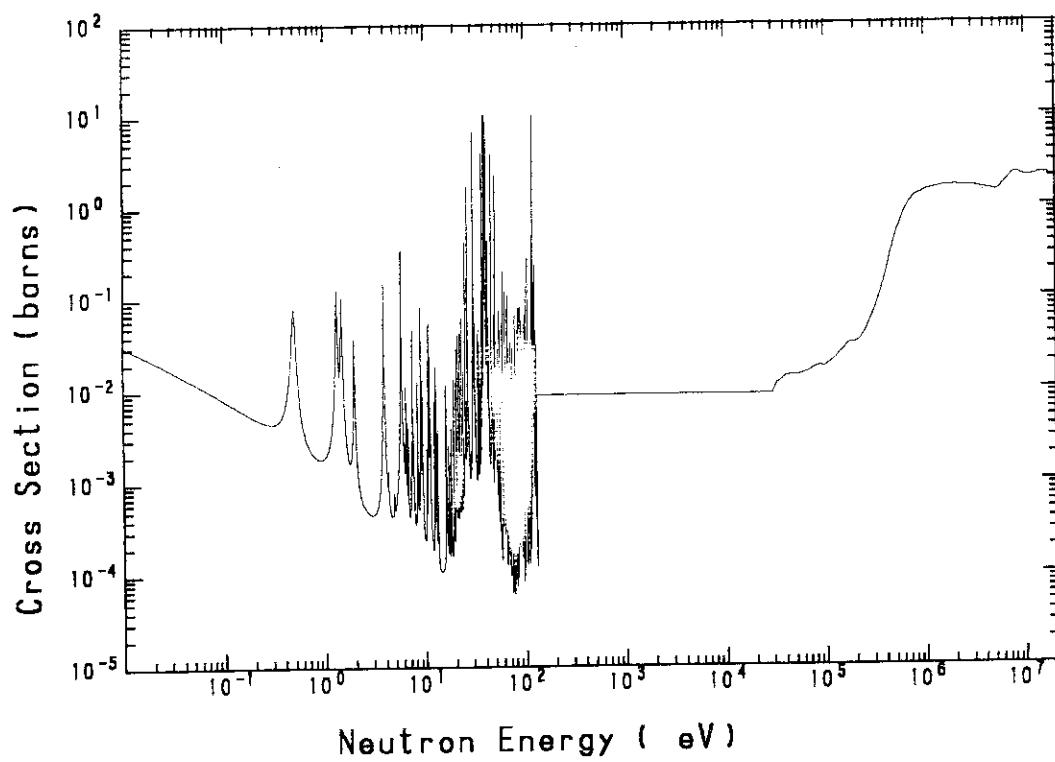
^{237}Np
(n, γ)

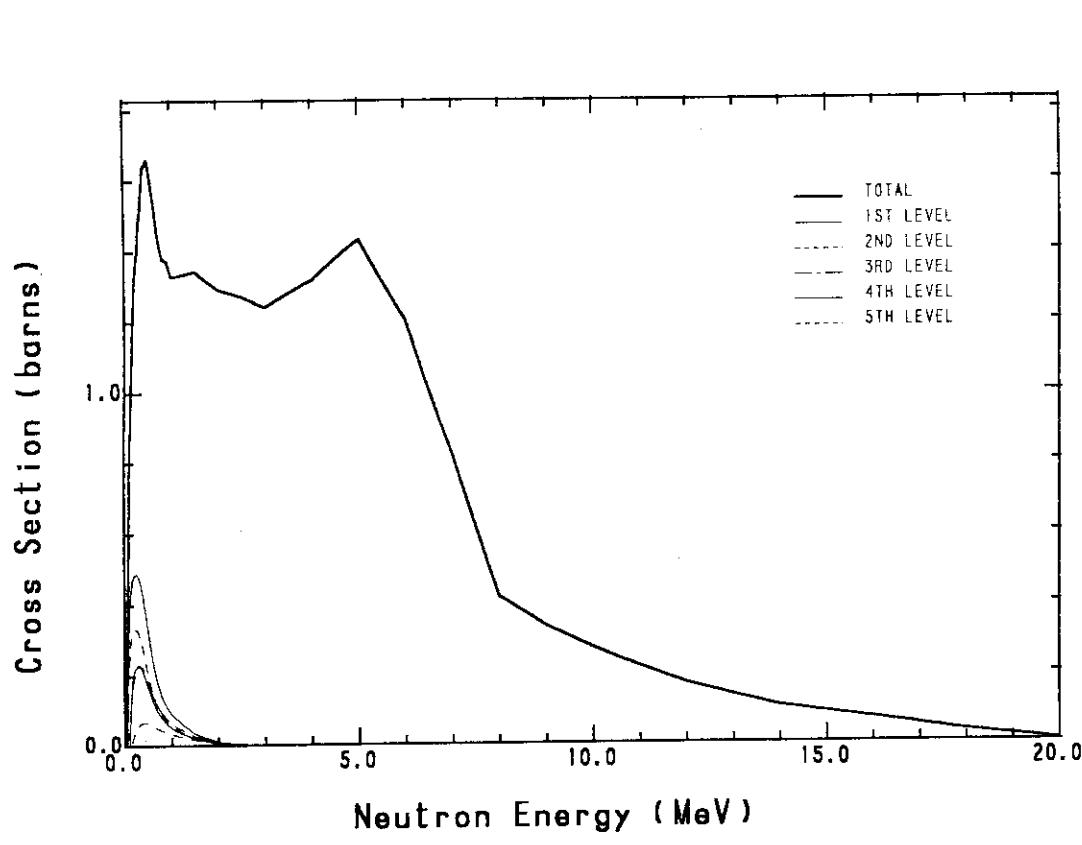
MAT=2931
MT= 102



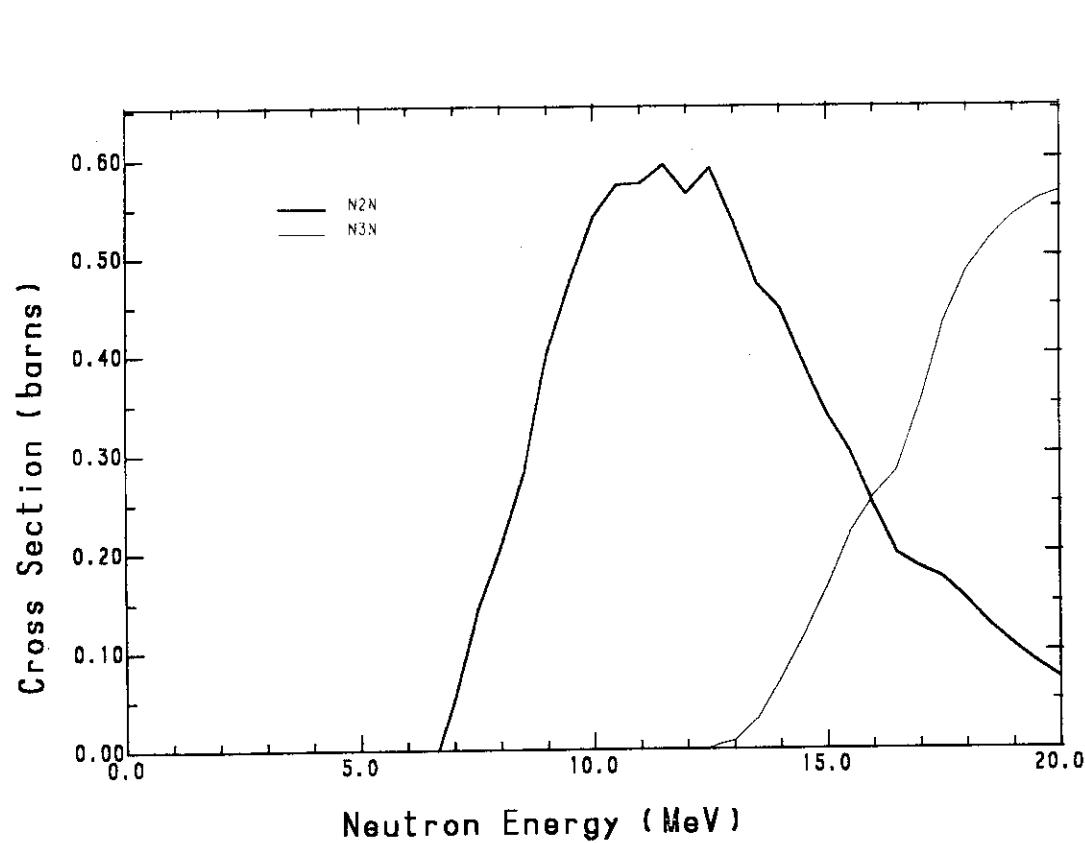
^{237}Np
(n, f)

MAT=2931
MT= 18





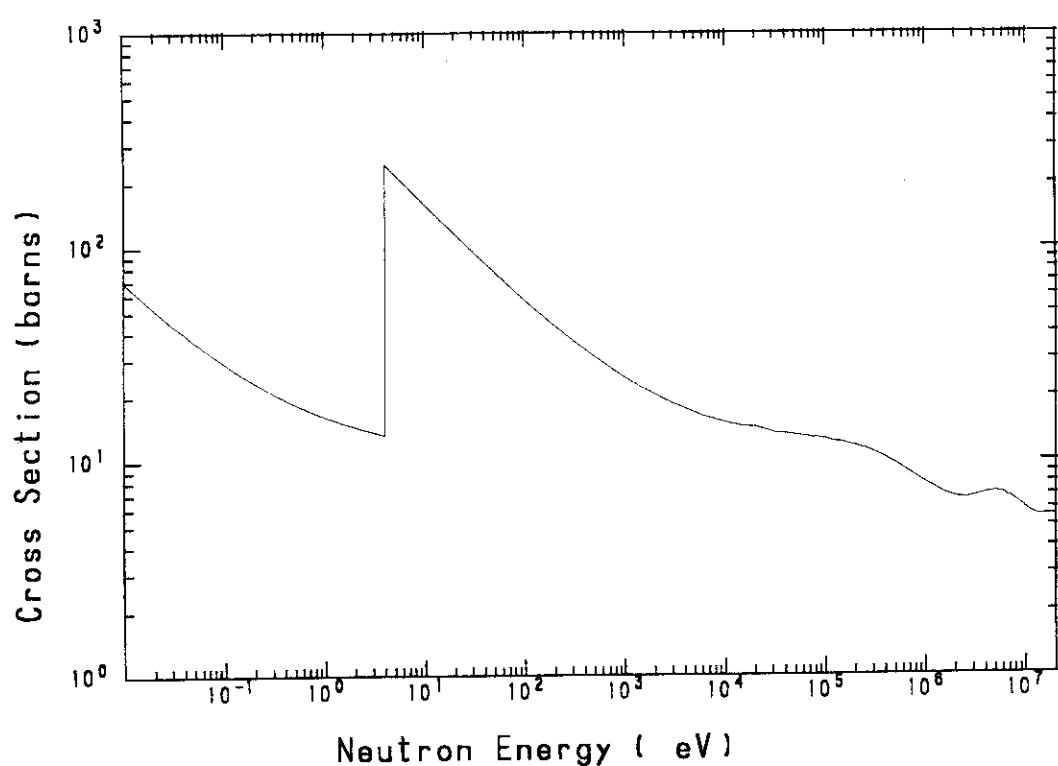
MAT=2931
MT= 4
51~55



MAT=2931
MT= 16
17

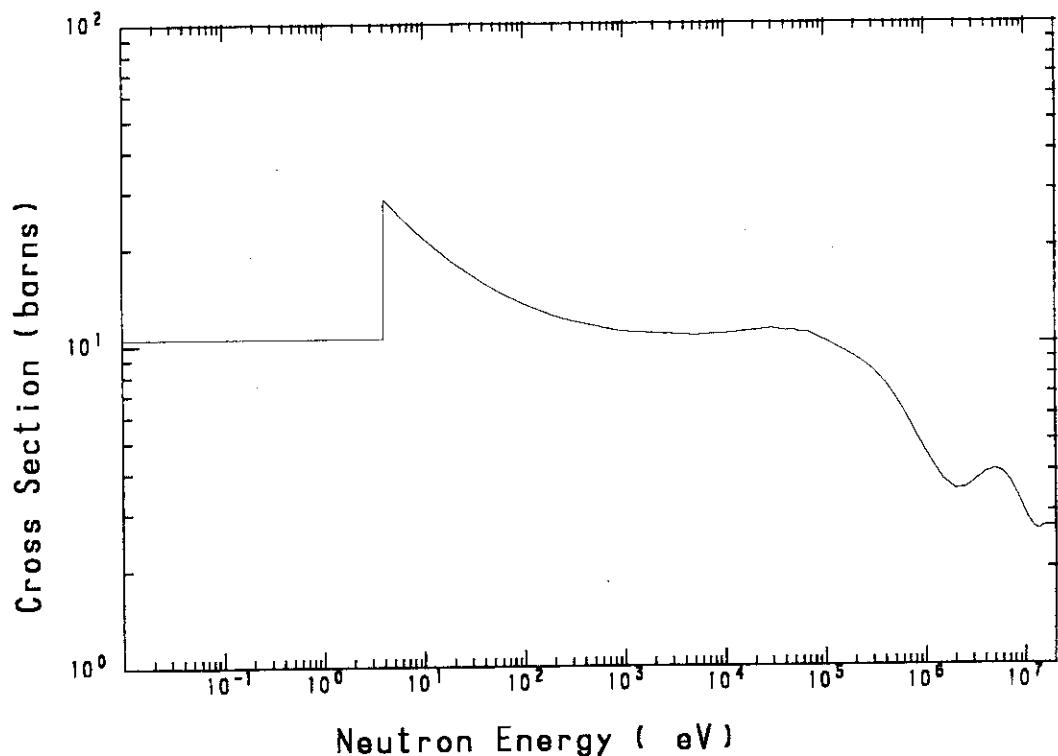
^{239}Np
TOTAL

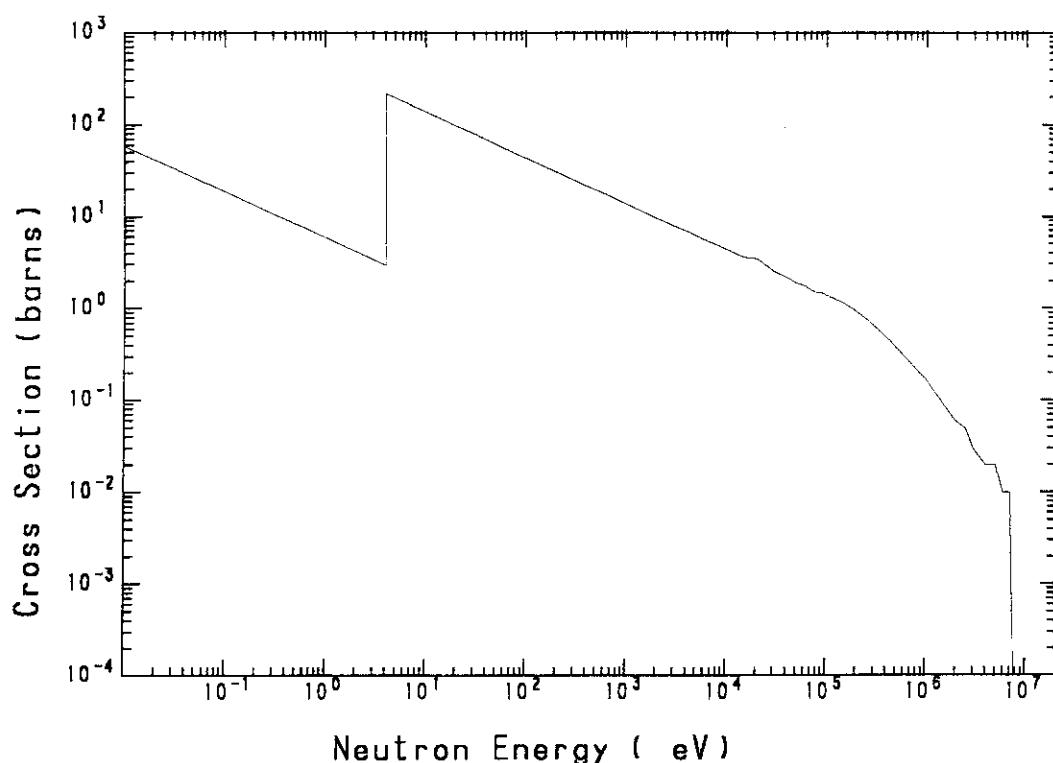
MAT=2932
MT= 1



^{239}Np
(n, n)

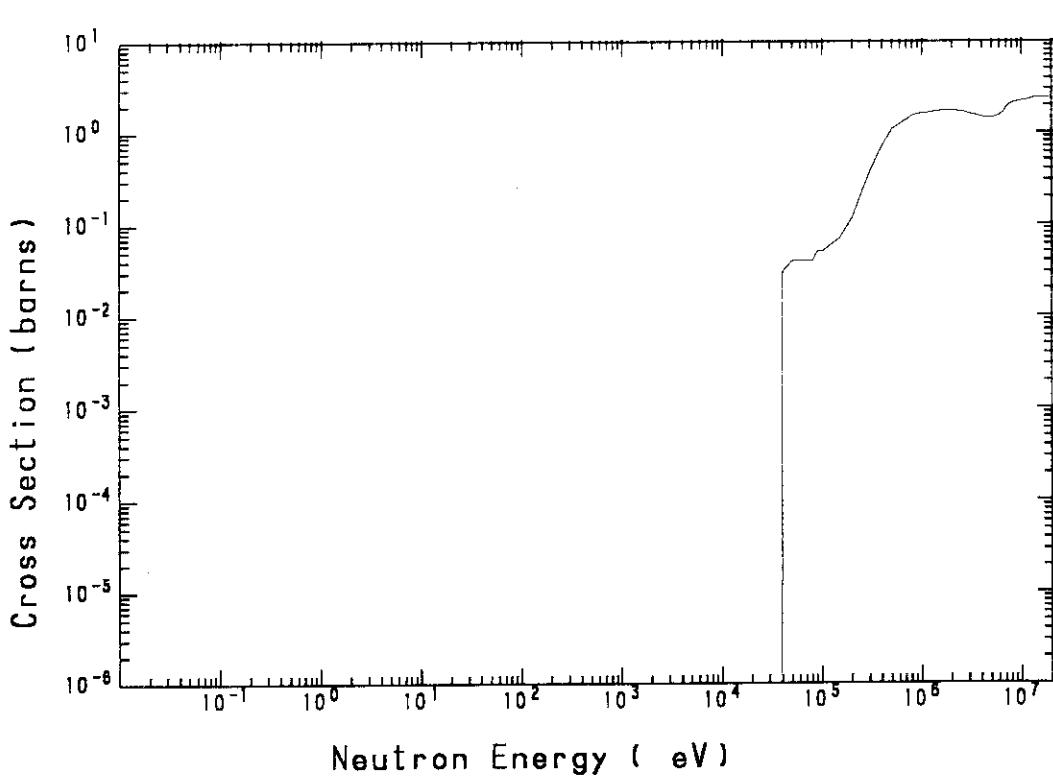
MAT=2932
MT= 2





^{239}Np
 (n, γ)

MAT=2932
MT= 102

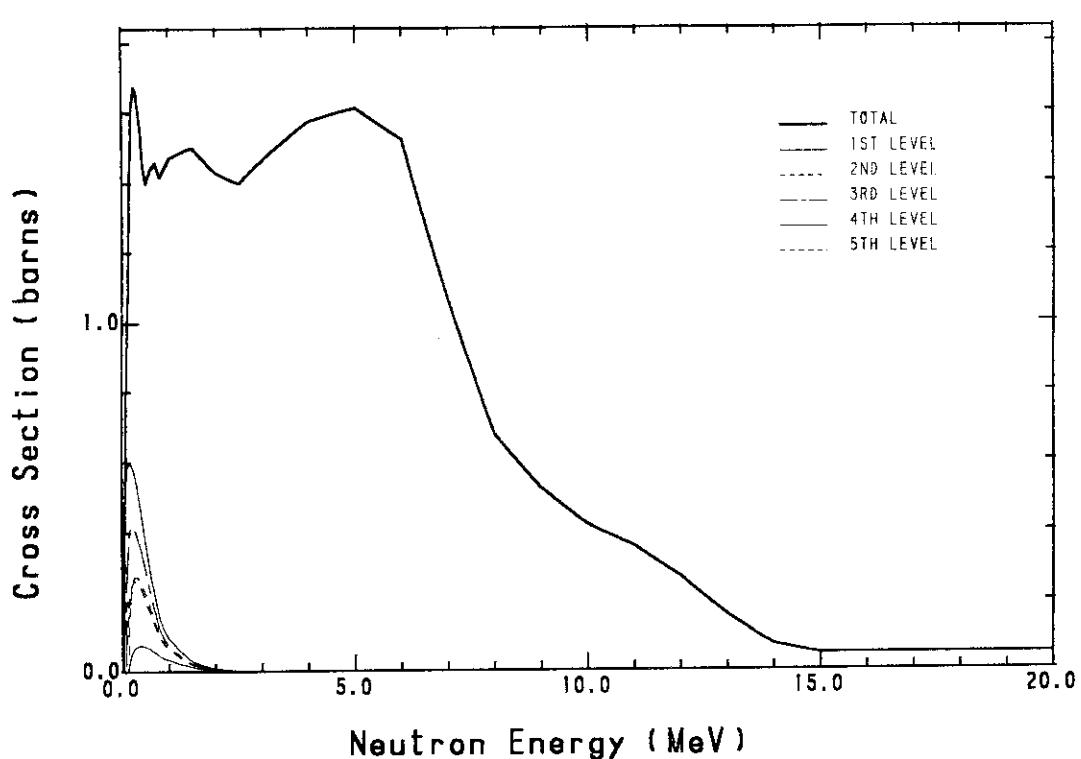


^{239}Np
 (n, f)

MAT=2932
MT= 18

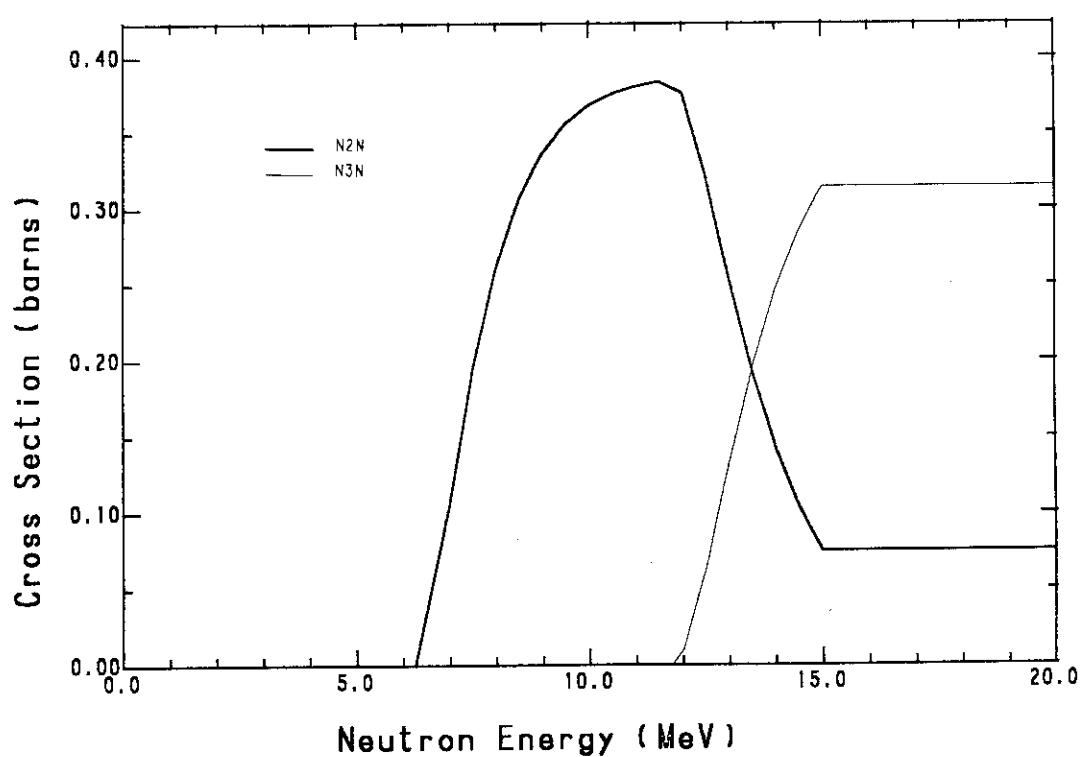
^{239}Np
 (n, n')

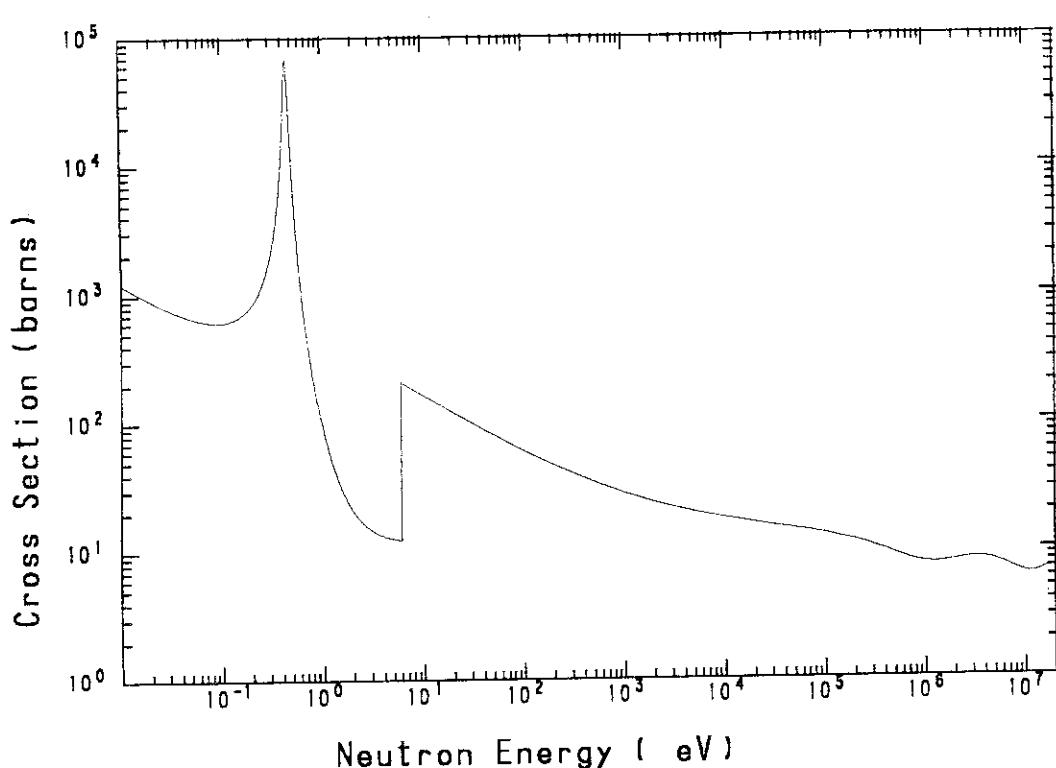
MAT=2932
MT= 4
51~55



^{239}Np
 $(n, 2n)$
 $(n, 3n)$

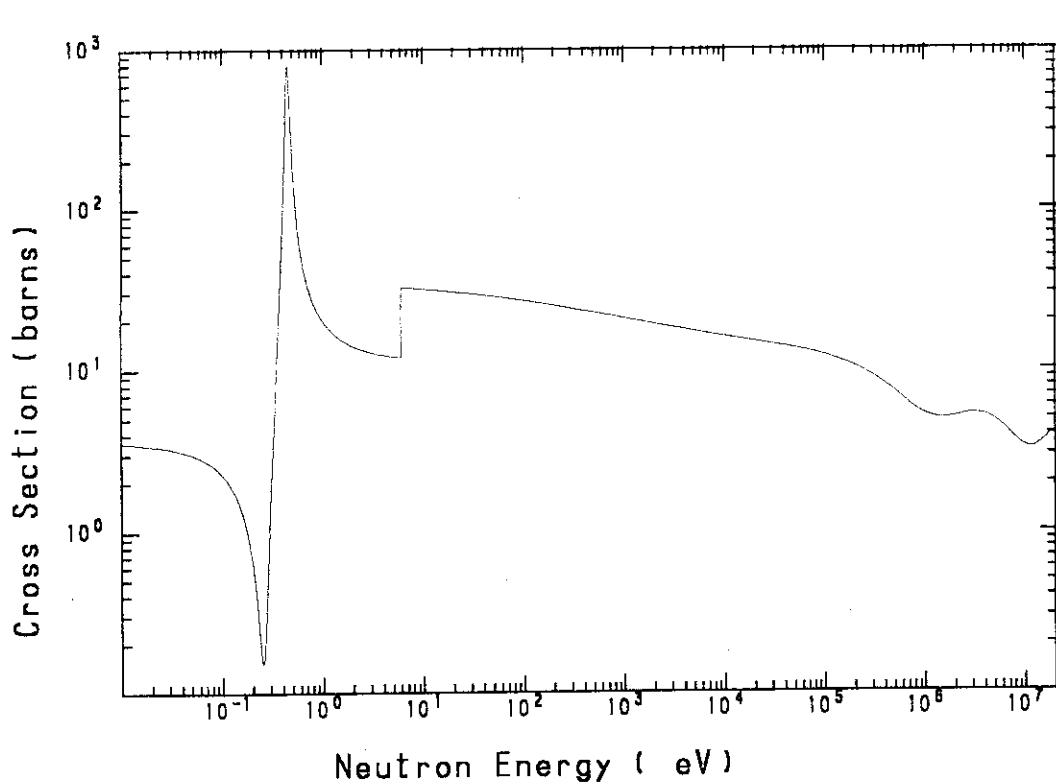
MAT=2932
MT= 16
17





^{236}Pu
TOTAL

MAT=2941
MT= 1

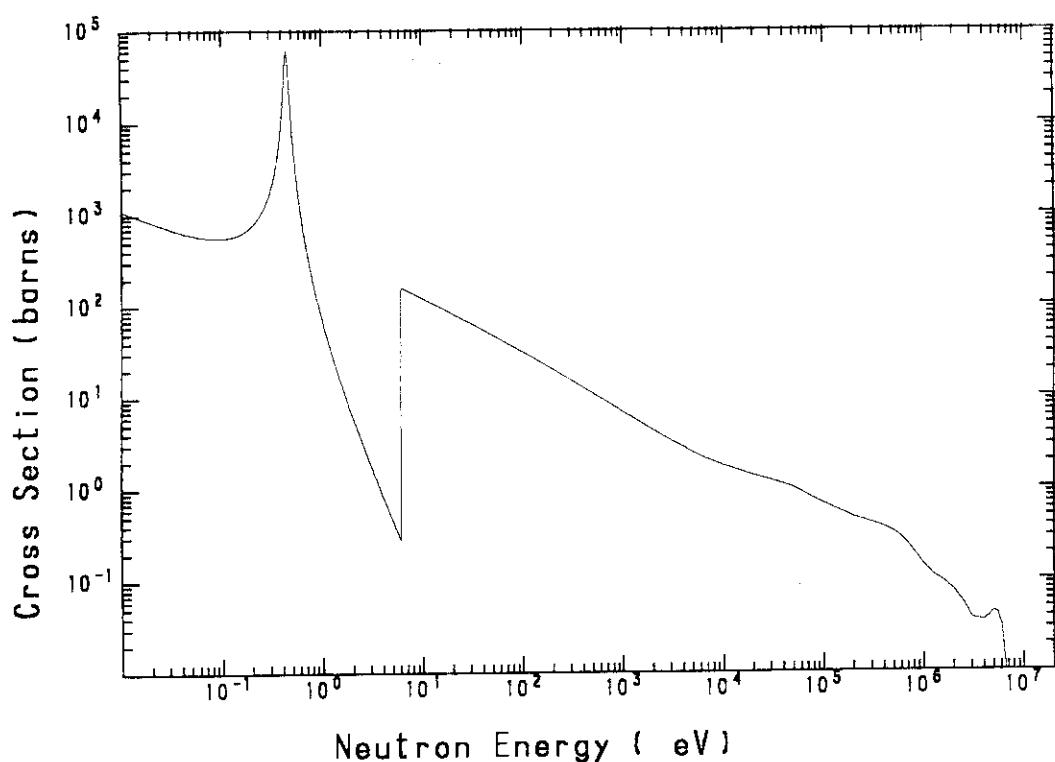


^{236}Pu
(n, n)

MAT=2941
MT= 2

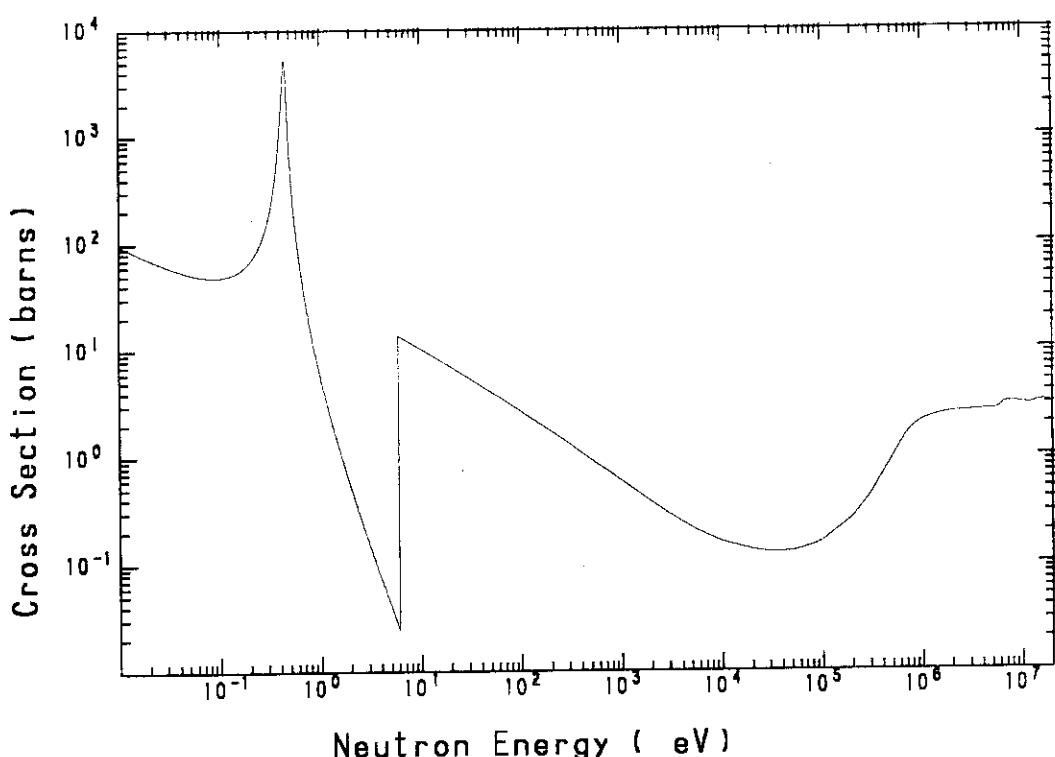
^{236}Pu
(n, γ)

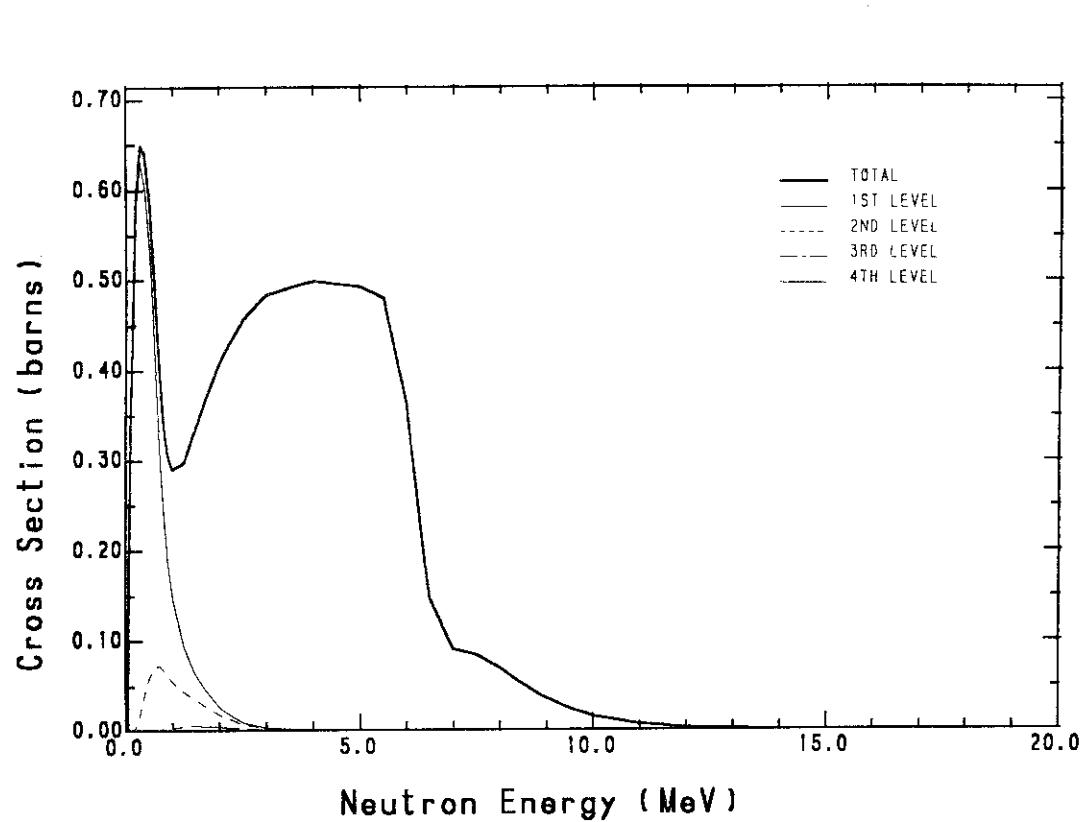
MAT=2941
MT= 102



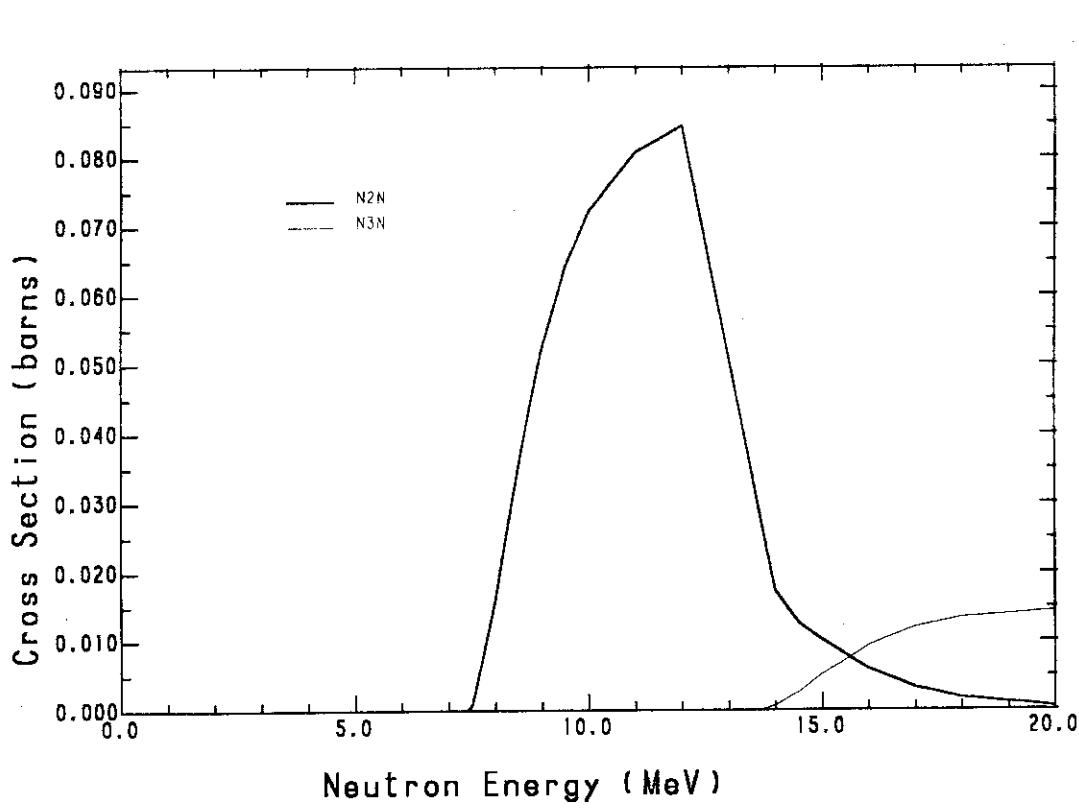
^{236}Pu
(n, f)

MAT=2941
MT= 18





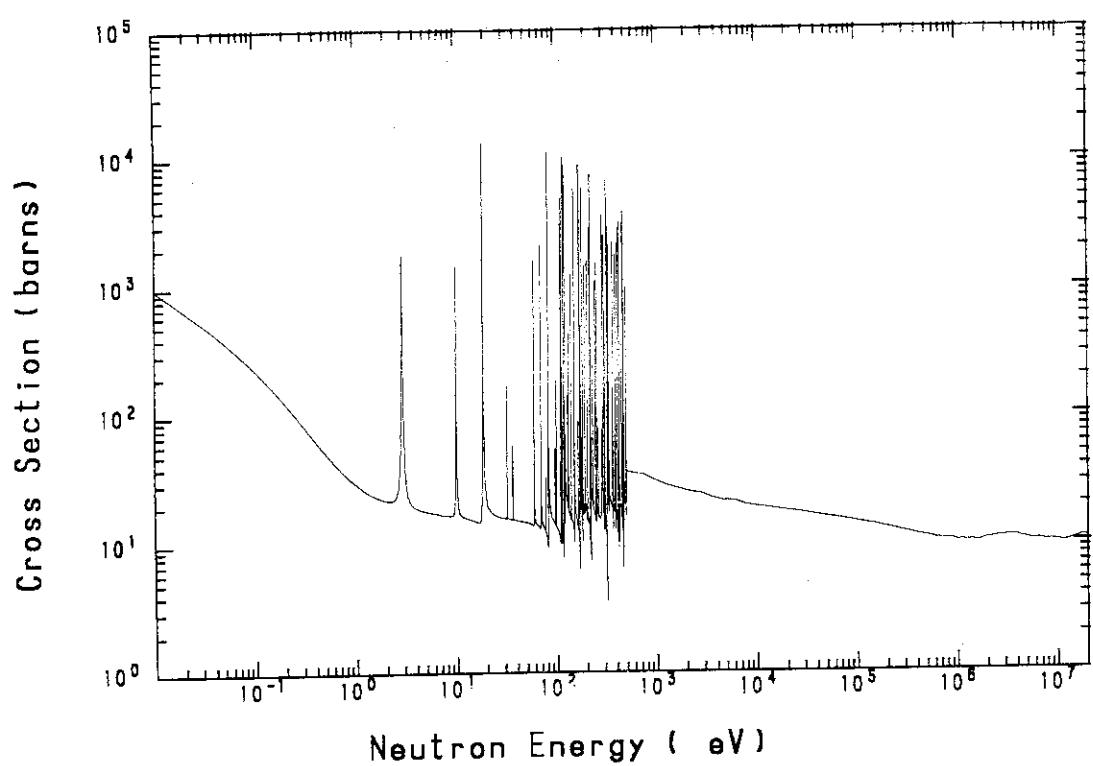
MAT=2941
MT= 4
51~54



MAT=2941
MT= 16
17

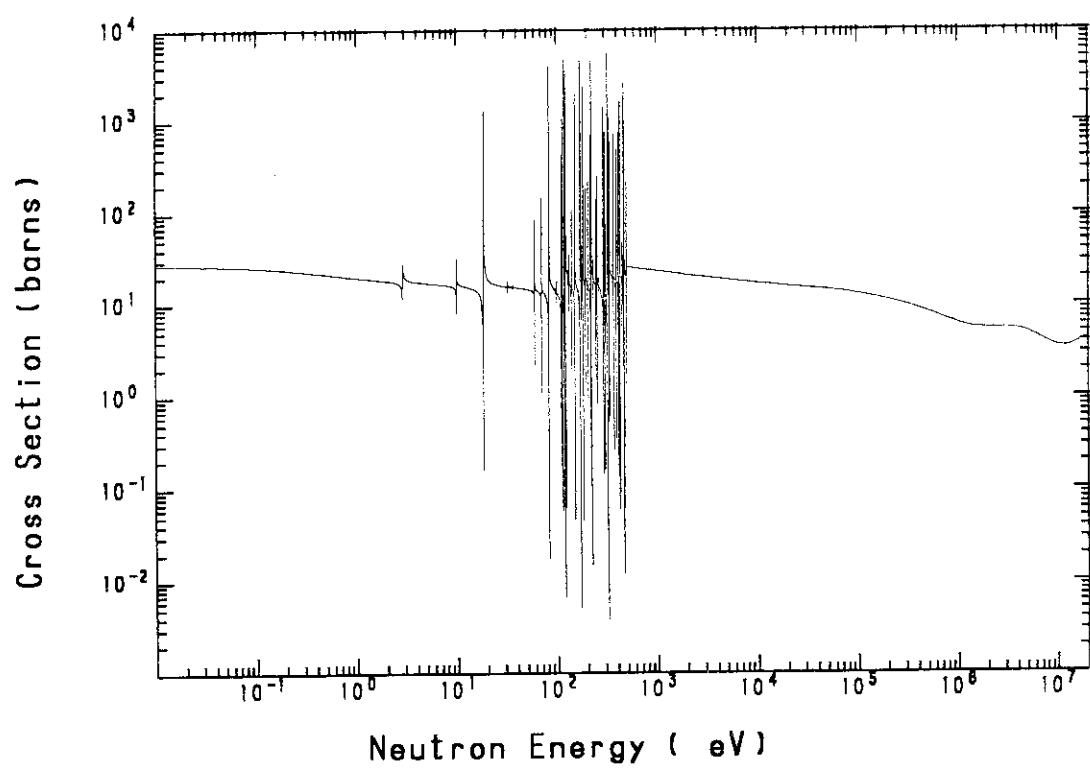
^{238}Pu
TOTAL

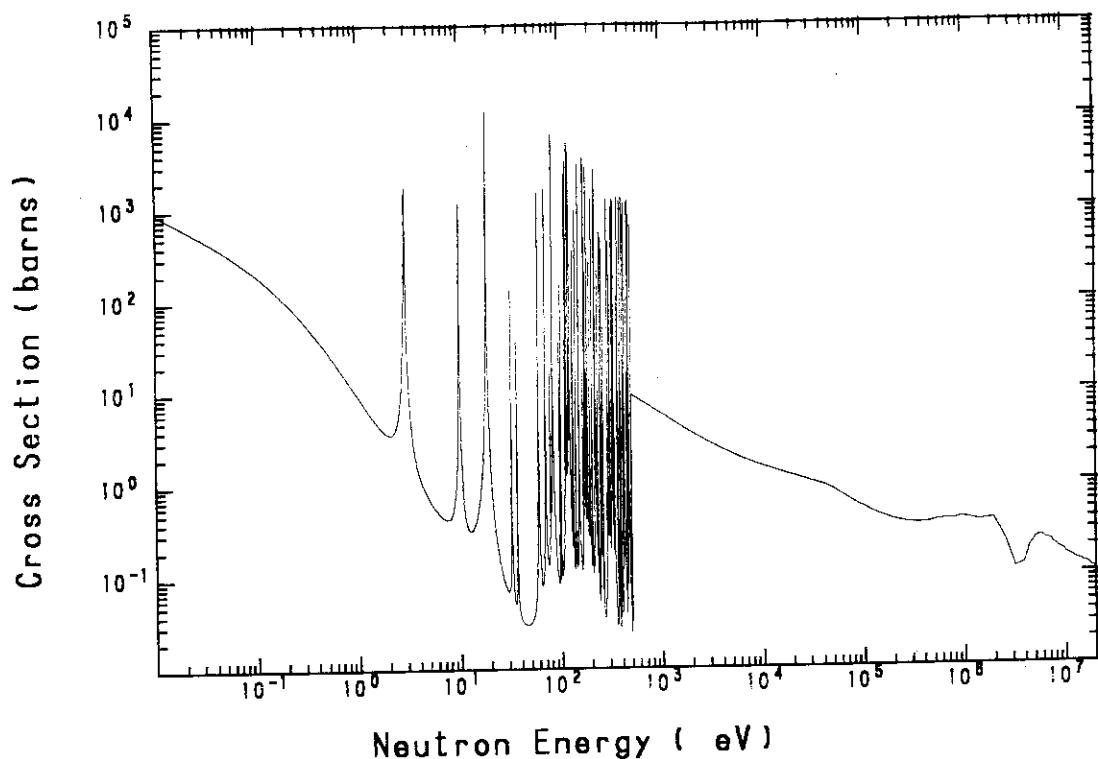
MAT=2942
MT = 1



^{238}Pu
(n, n)

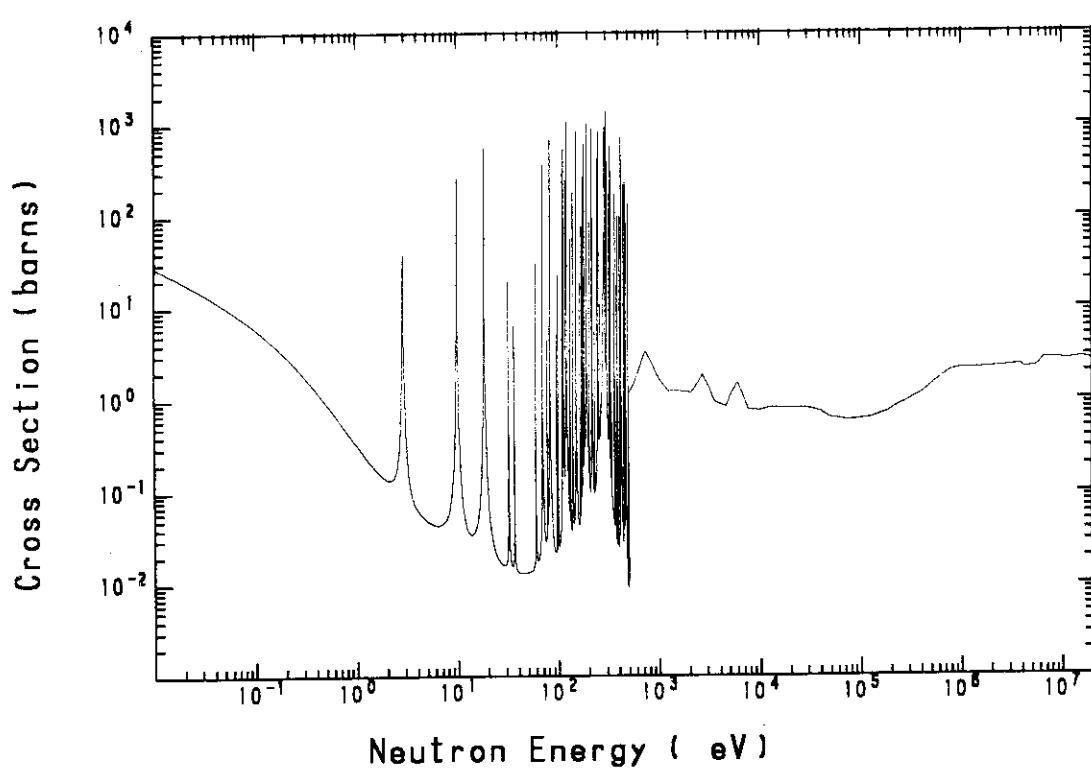
MAT=2942
MT = 2





^{238}Pu
(n, γ)

MAT=2942
MT = 102

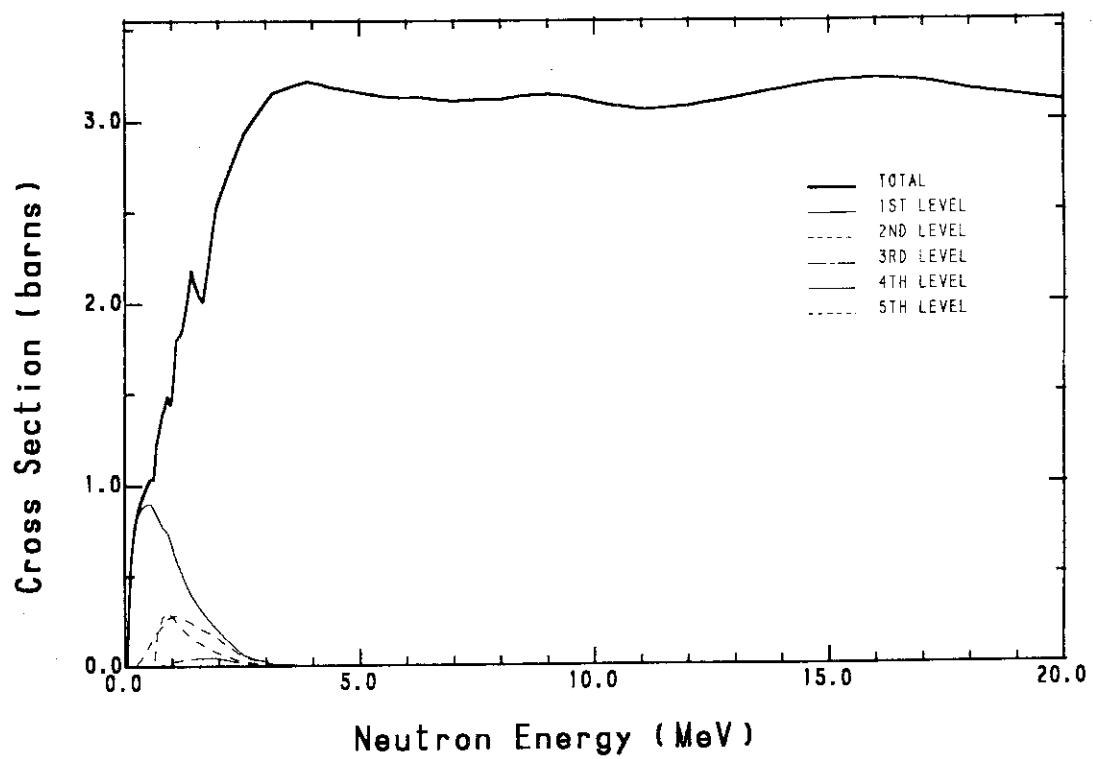


^{238}Pu
(n, f)

MAT=2942
MT = 18

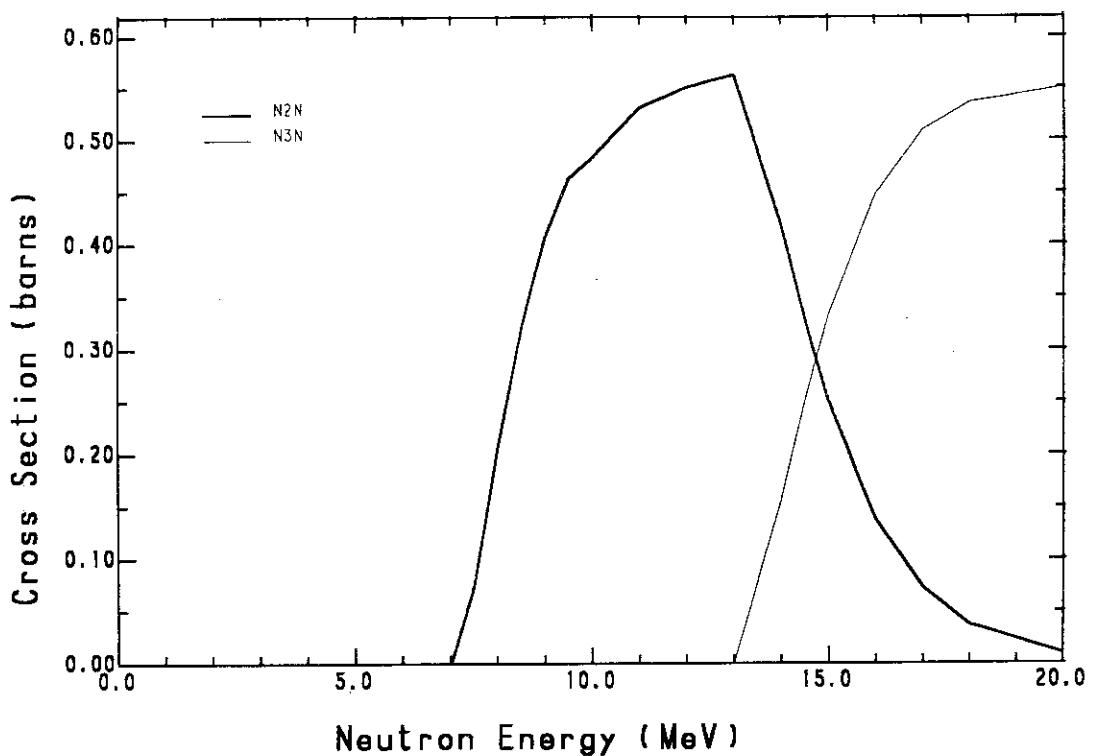
^{238}Pu
(n, n')

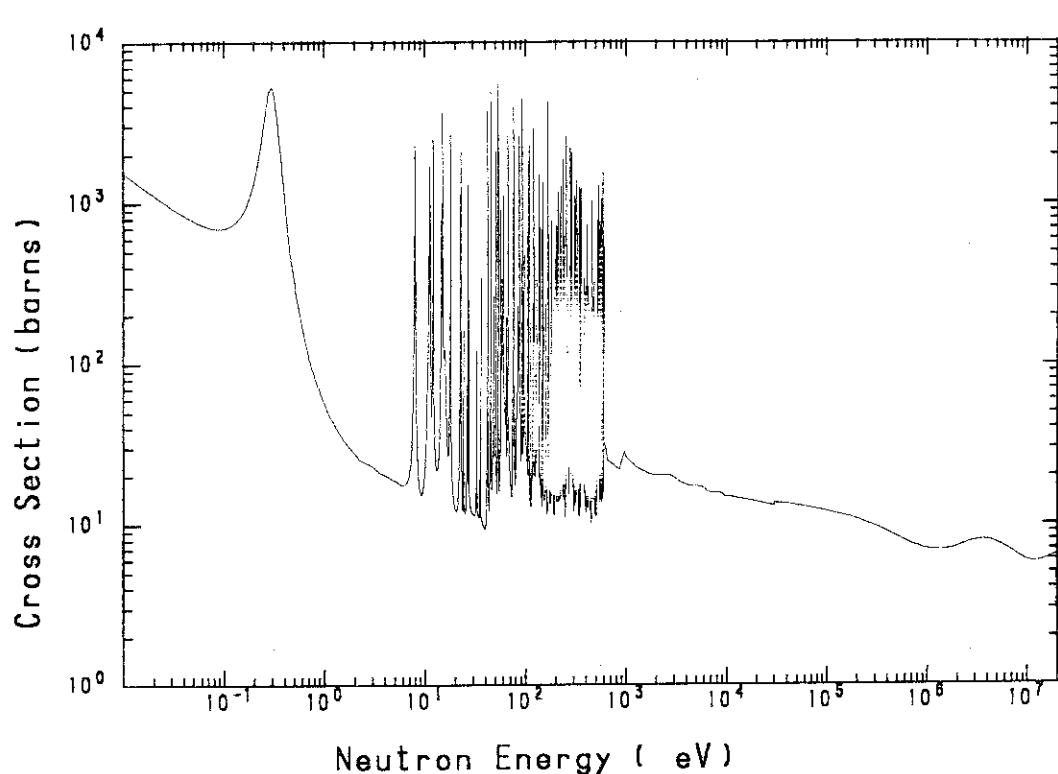
MAT=2942
MT= 4
51~55



^{238}Pu
($n, 2n$)
($n, 3n$)

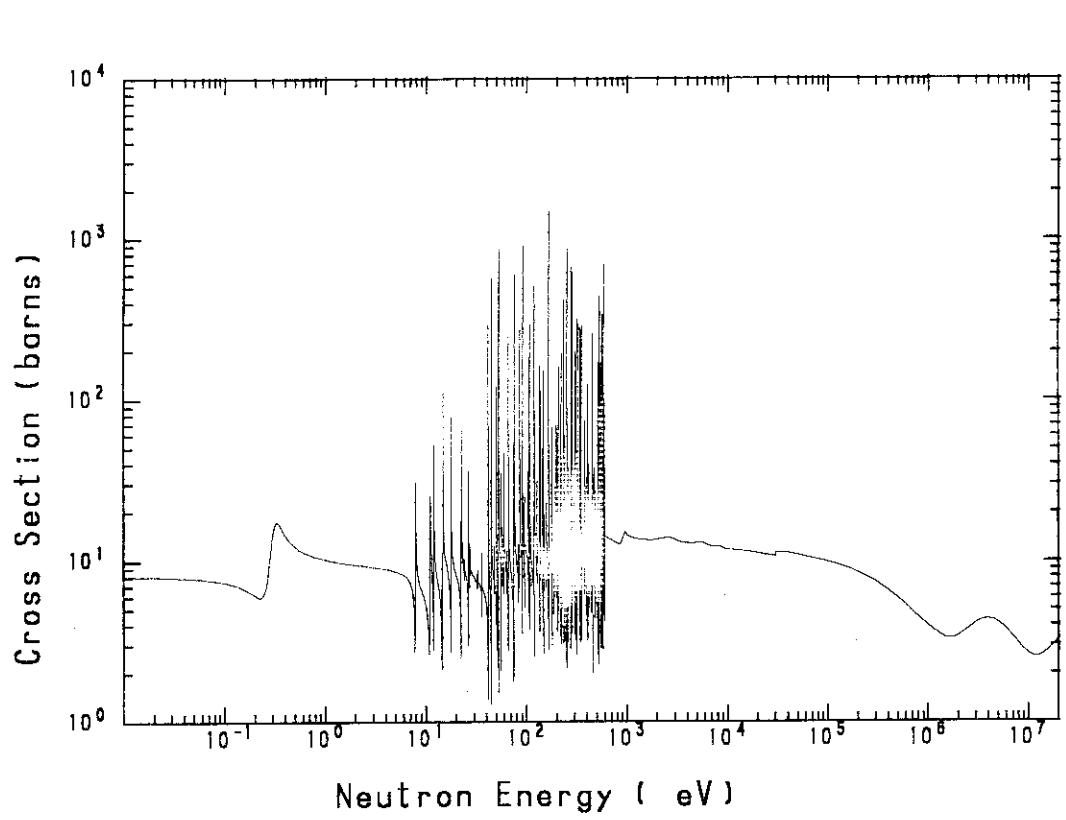
MAT=2942
MT= 16
17





^{239}Pu
TOTAL

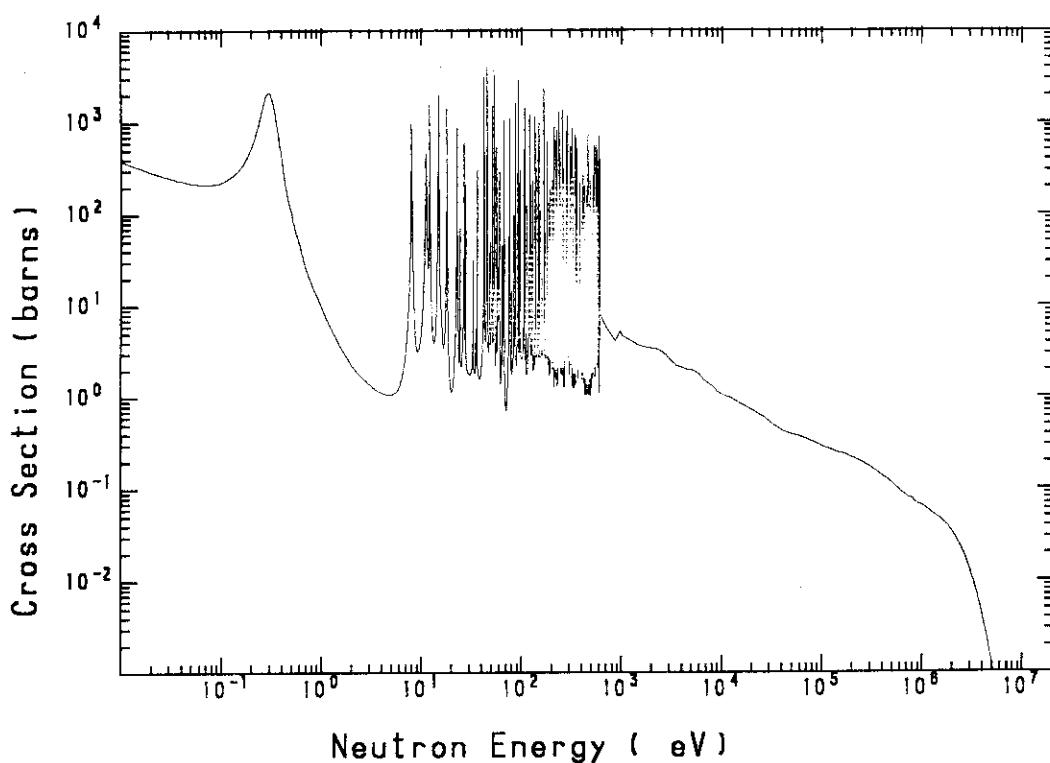
MAT=2943
MT= 1



^{239}Pu
(n, n)

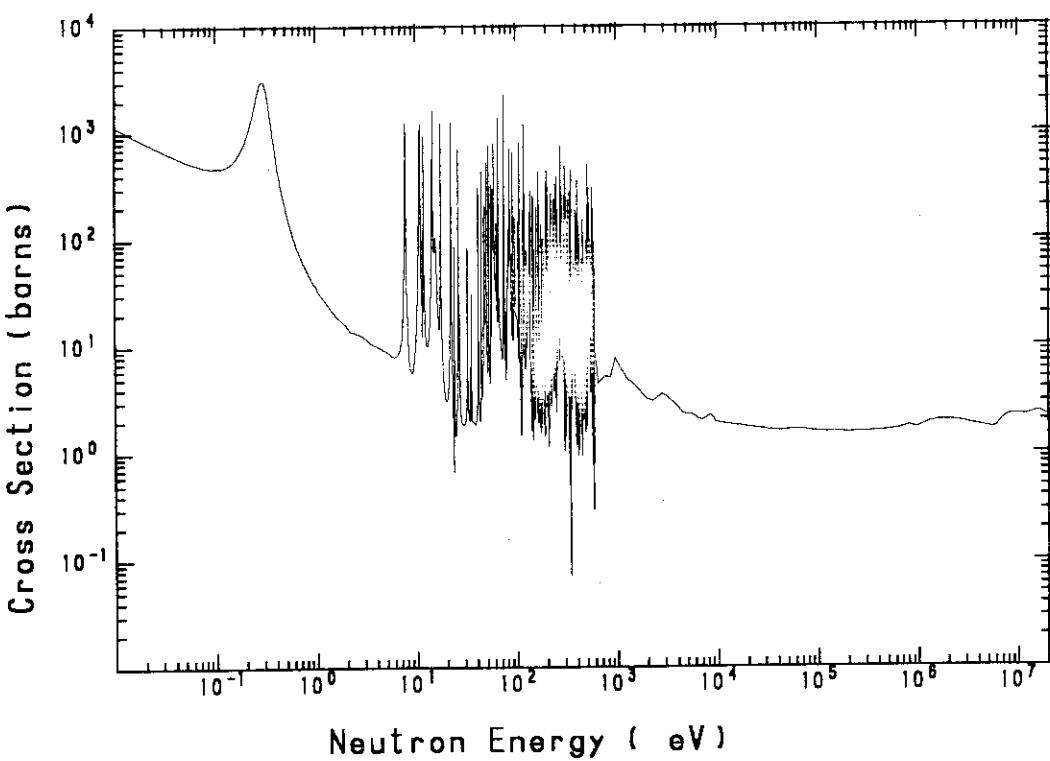
MAT=2943
MT= 2

^{239}Pu
 (n, γ)



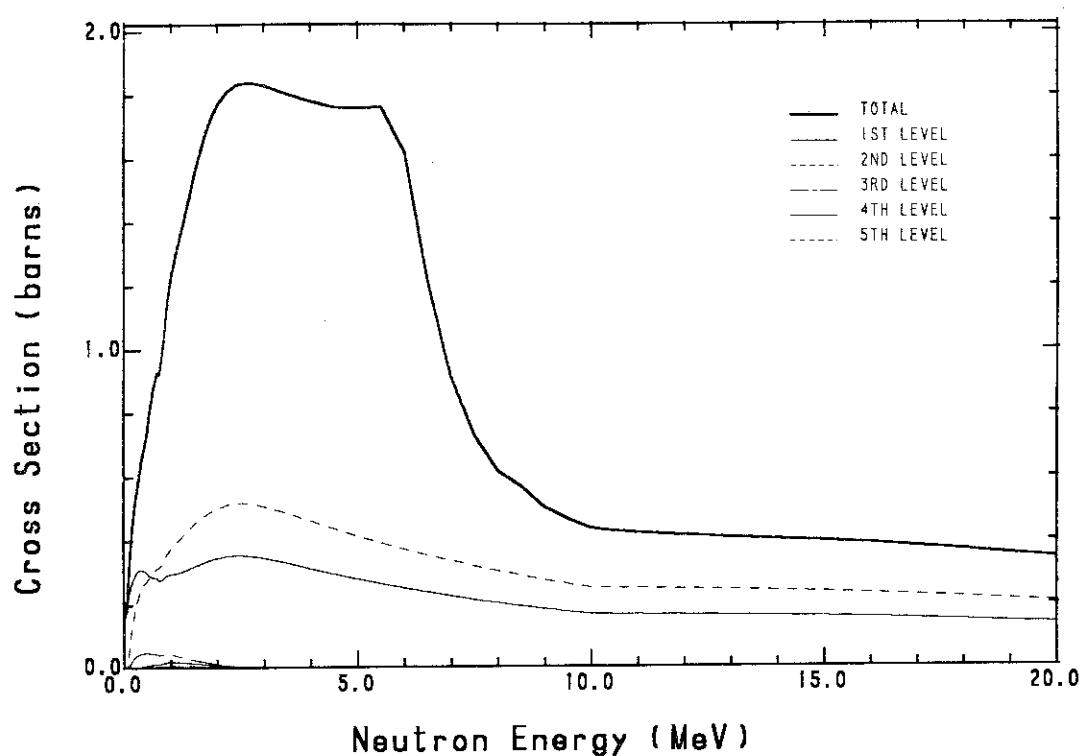
MAT=2943
MT= 102

^{239}Pu
 (n, f)



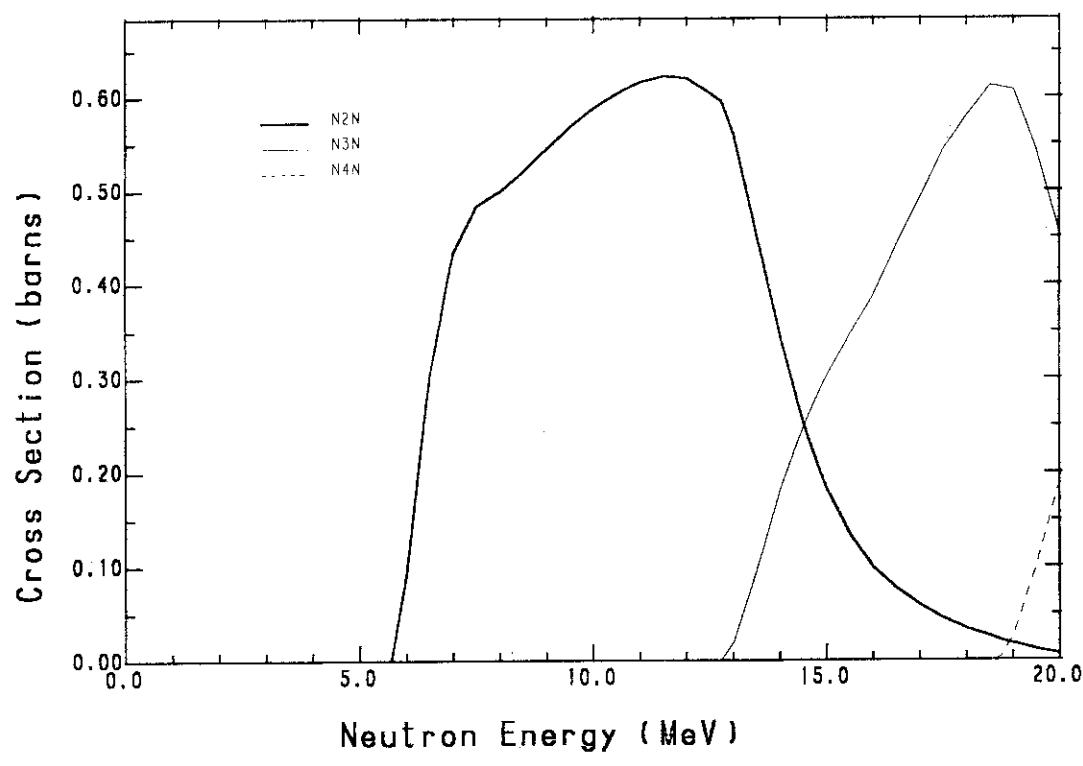
MAT=2943
MT= 18

^{239}Pu
 (n, n')



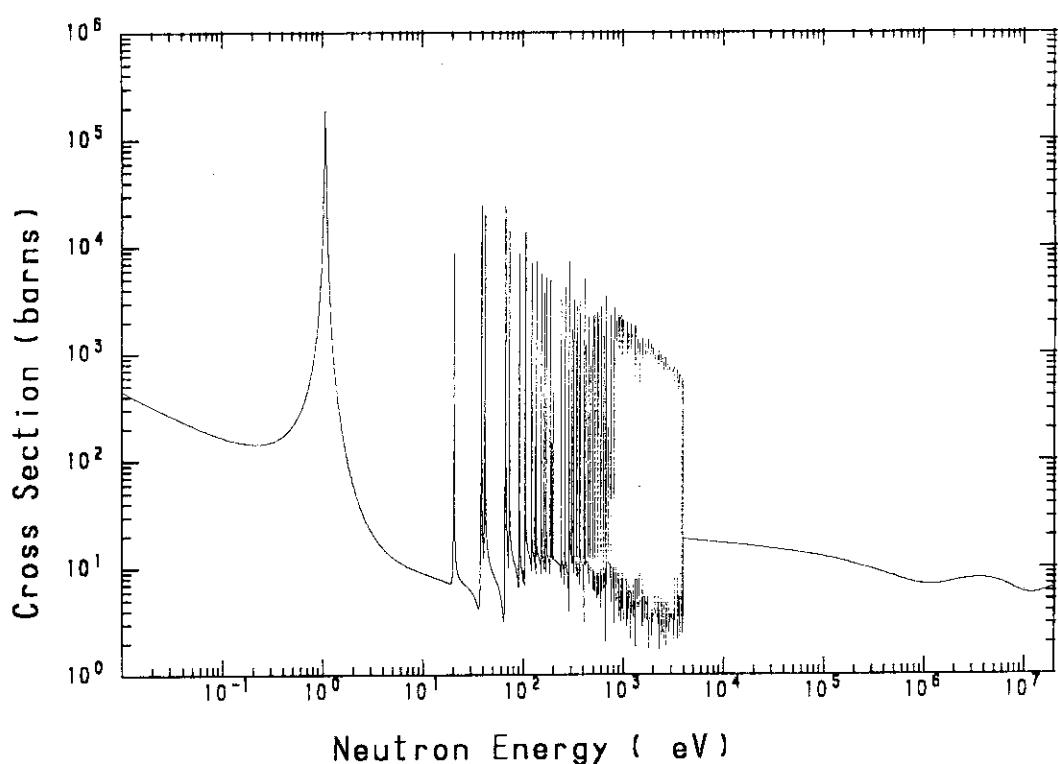
MAT=2943
MT= 4
51~55

^{239}Pu
 $(n, 2n)$
 $(n, 3n)$
 $(n, 4n)$



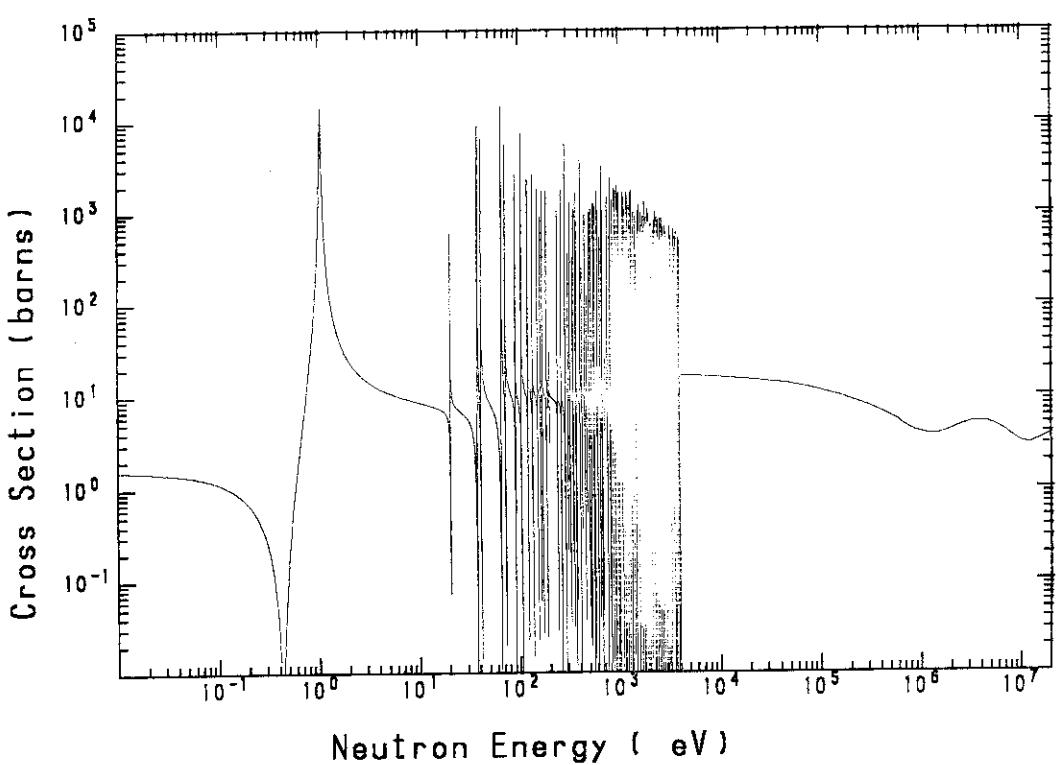
MAT=2943
MT= 16
17
37

^{240}Pu
TOTAL

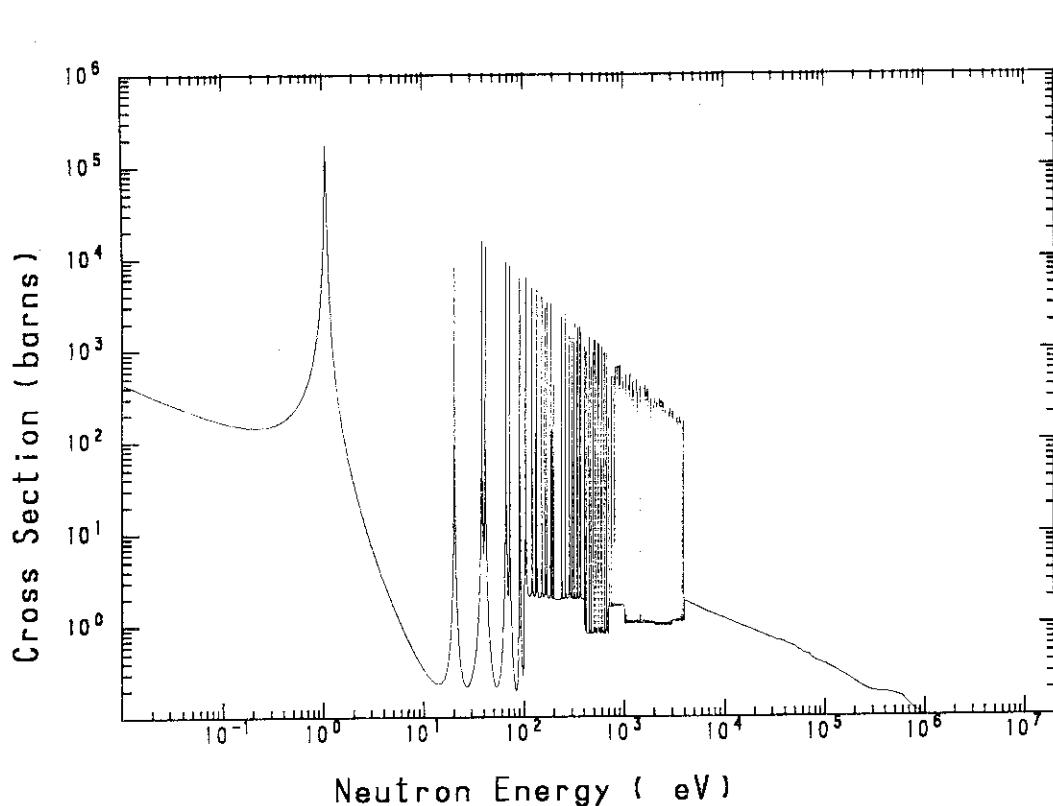


MAT=2944
MT= 1

^{240}Pu
(n, n)

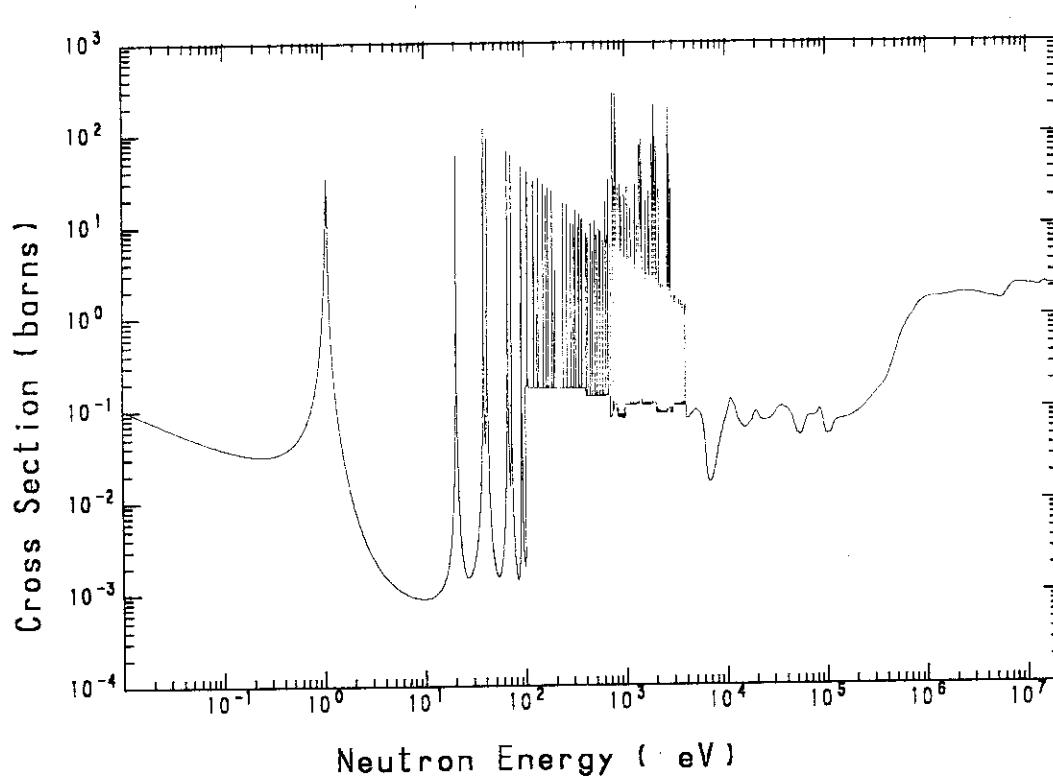


MAT=2944
MT= 2



^{240}Pu
(n, γ)

MAT=2944
MT = 102

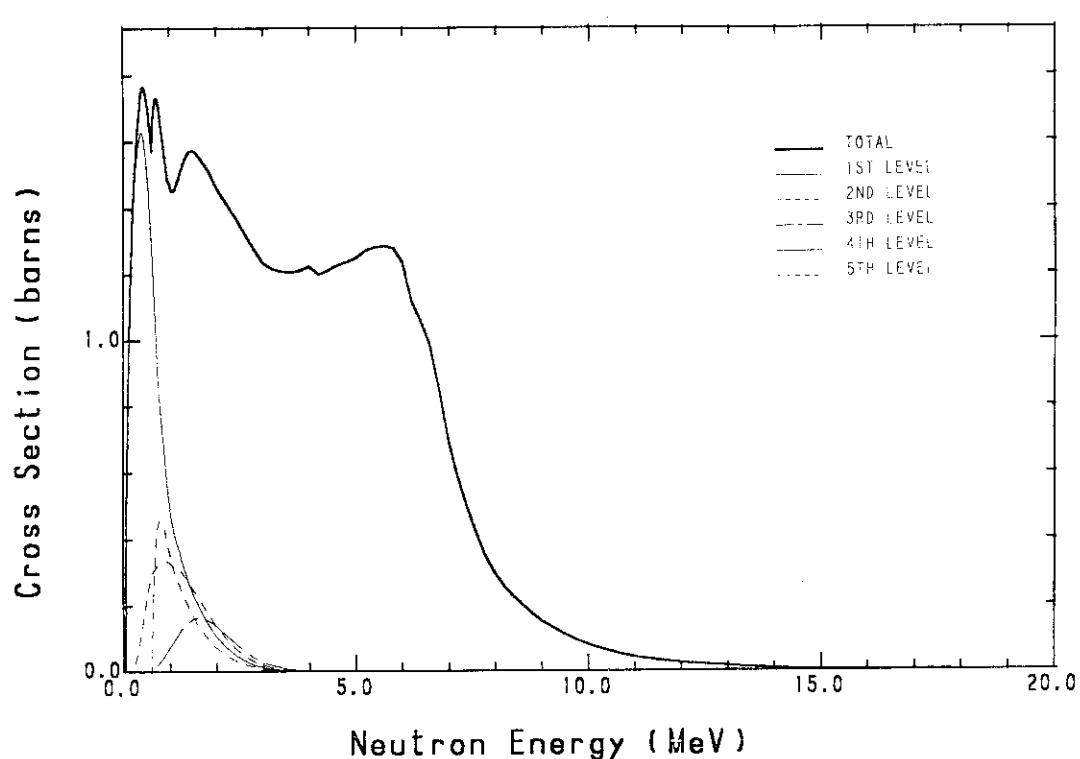


^{240}Pu
(n, f)

MAT=2944
MT = 18

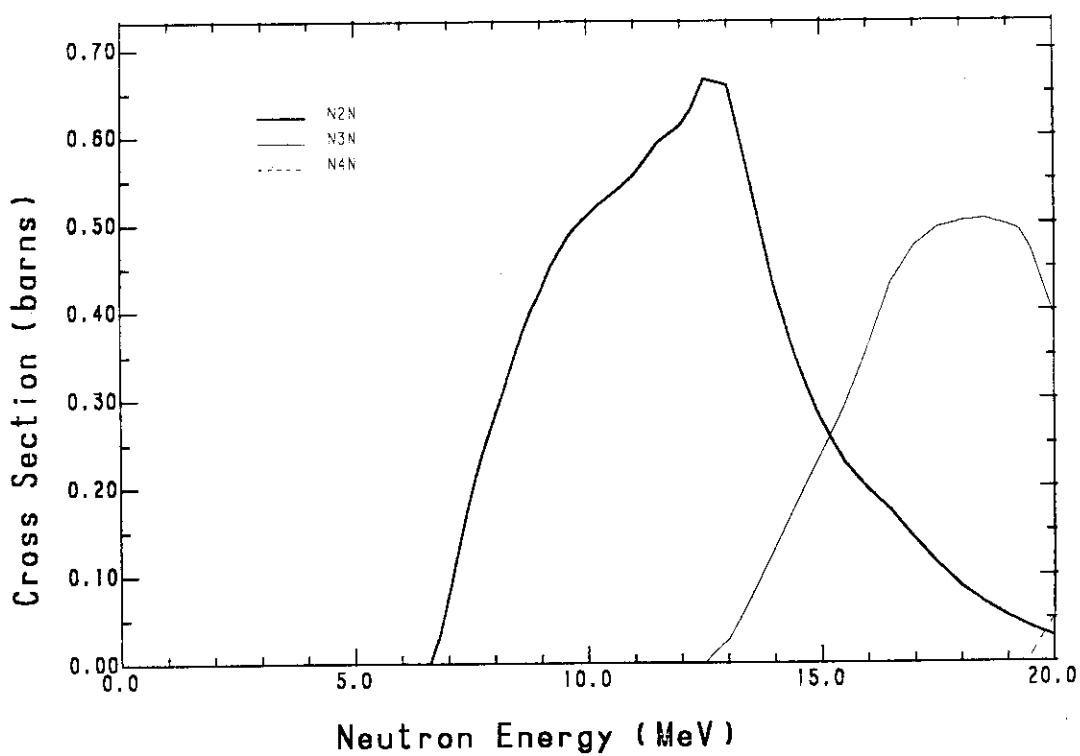
^{240}Pu
 (n, n')

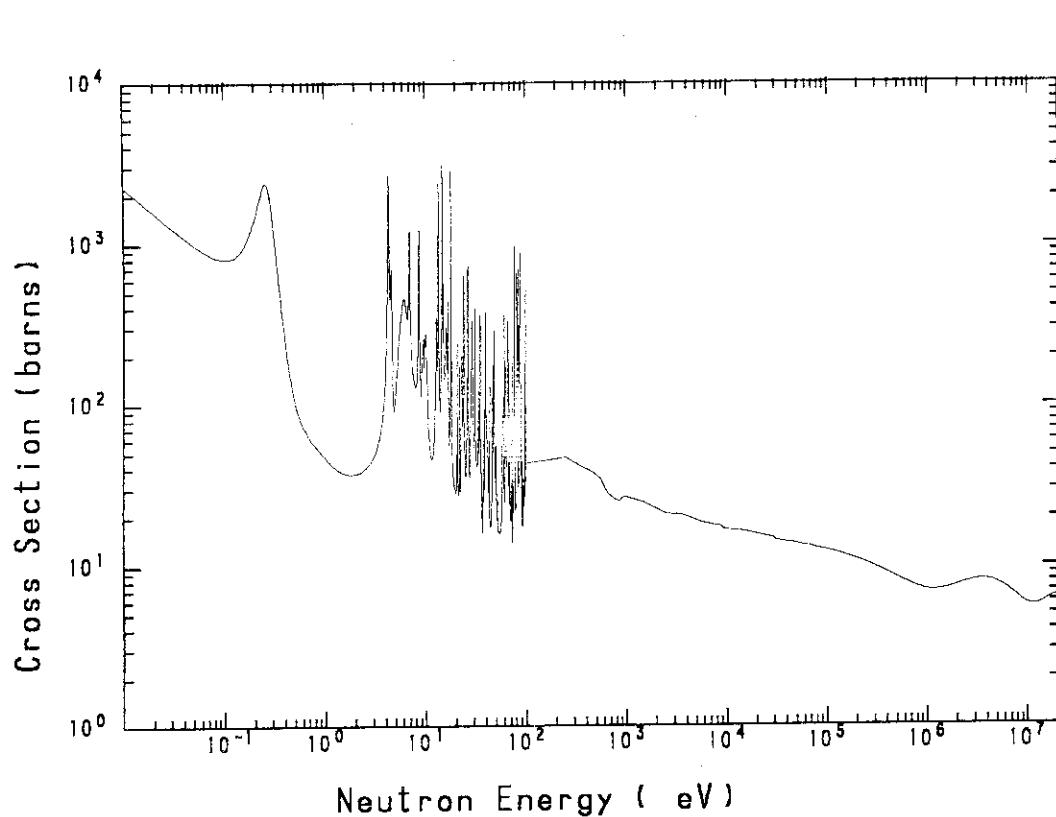
MAT=2944
MT= 4
51~55



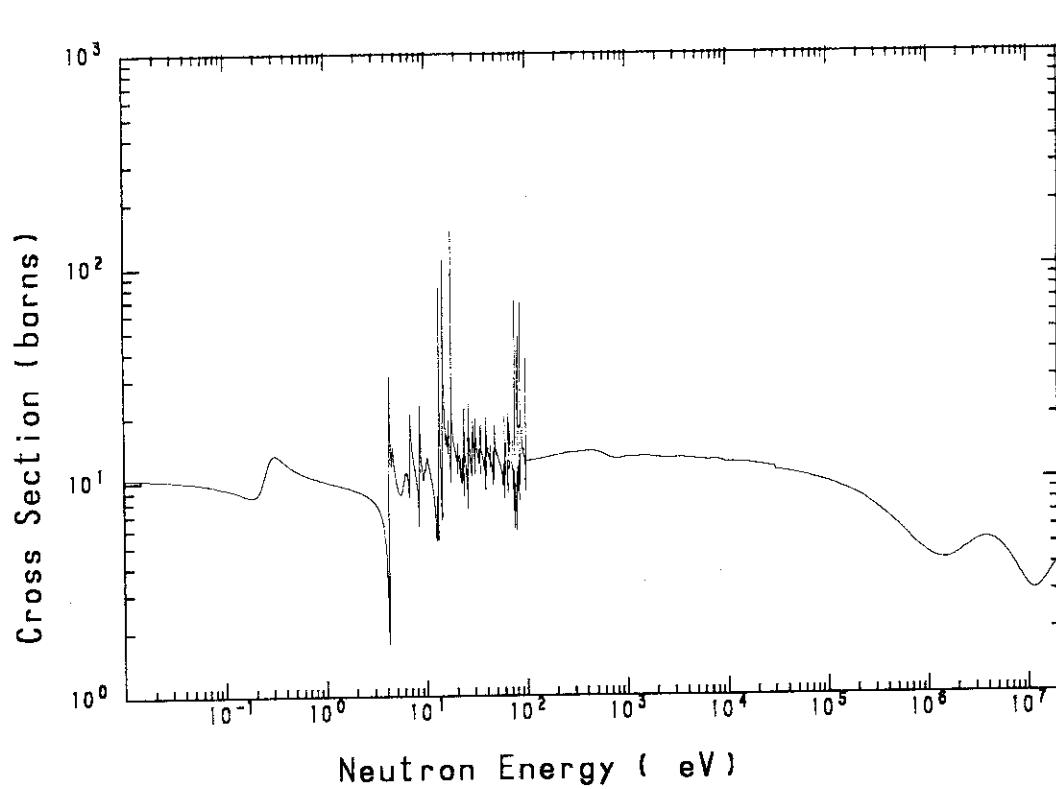
^{240}Pu
 $(n, 2n)$
 $(n, 3n)$
 $(n, 4n)$

MAT=2944
MT= 16
17
37



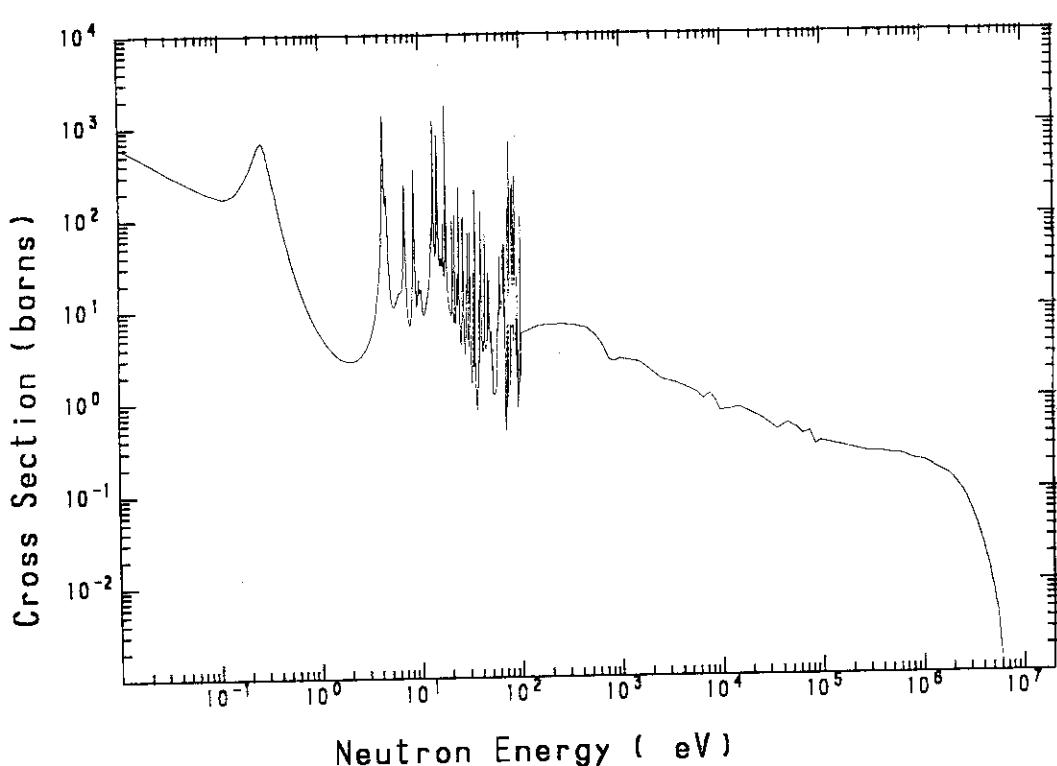


MAT=2945
MT= 1



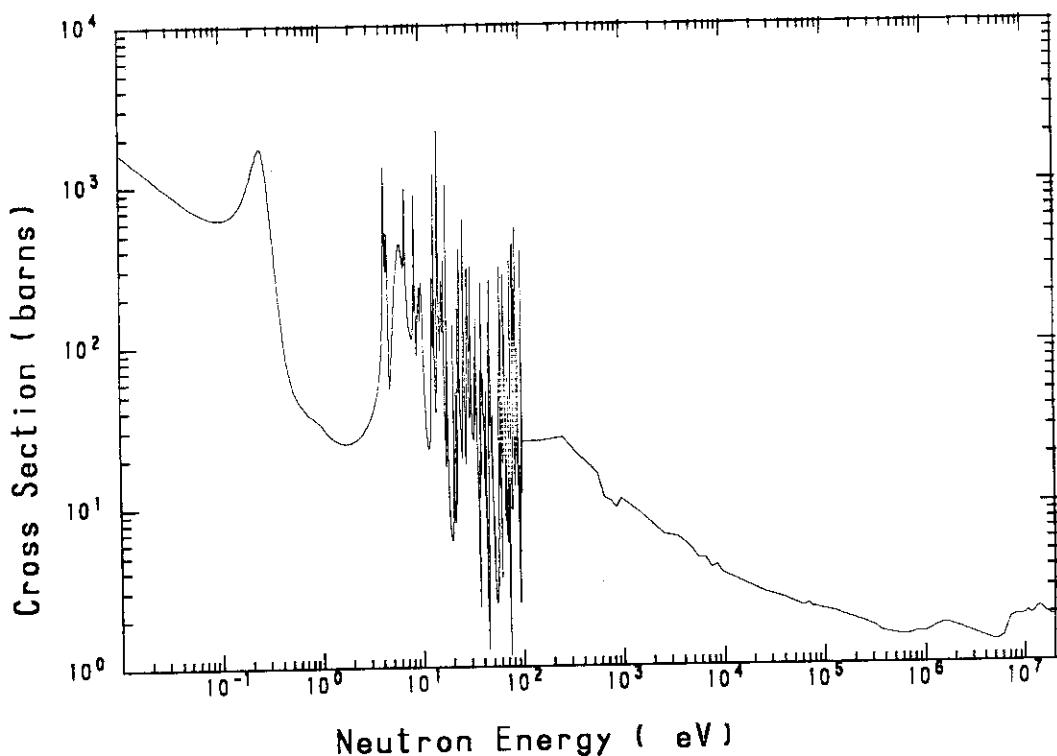
MAT=2945
MT= 2

^{241}Pu
(n, γ)

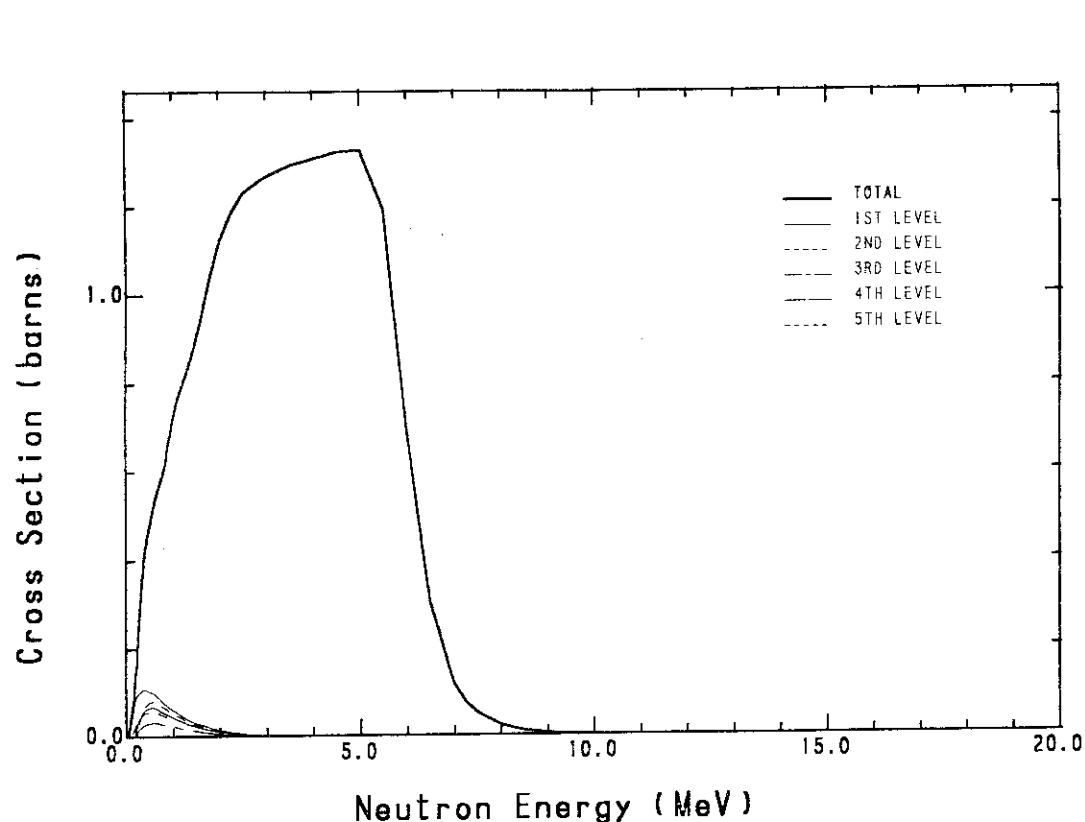


MAT=2945
MT= 102

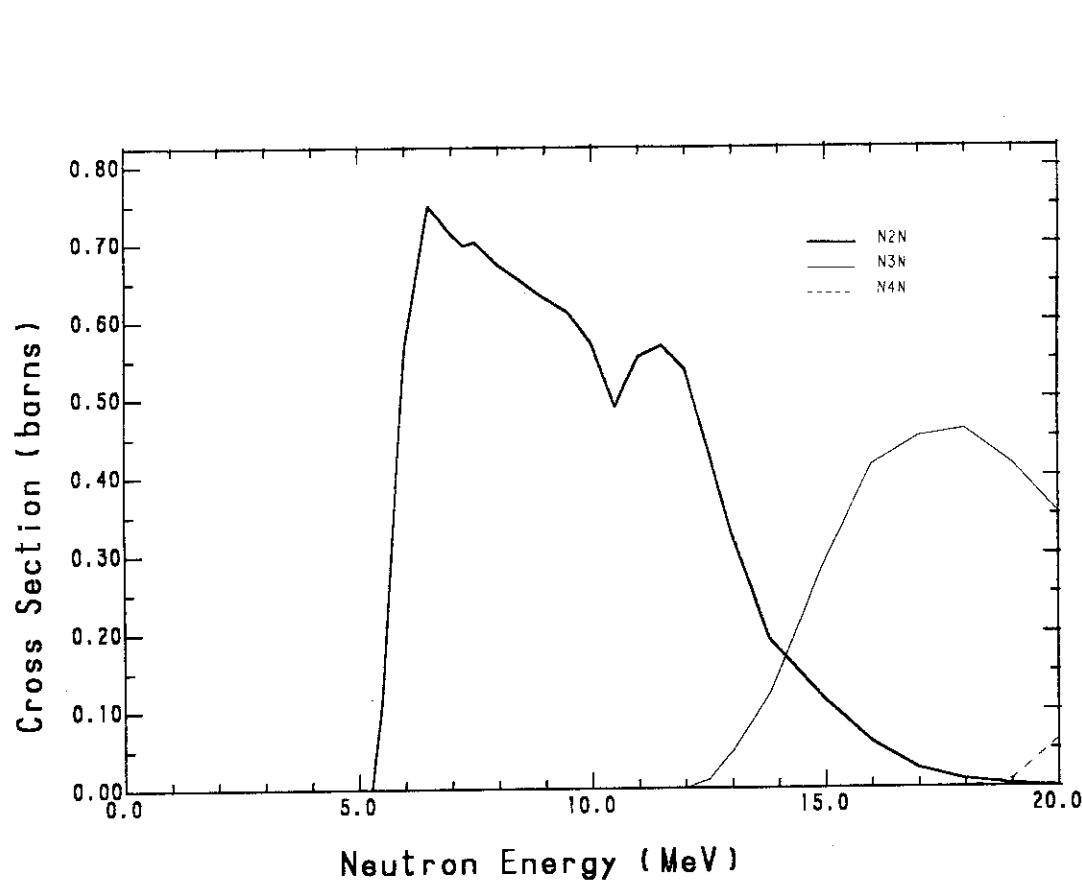
^{241}Pu
(n, f)



MAT=2945
MT= 18



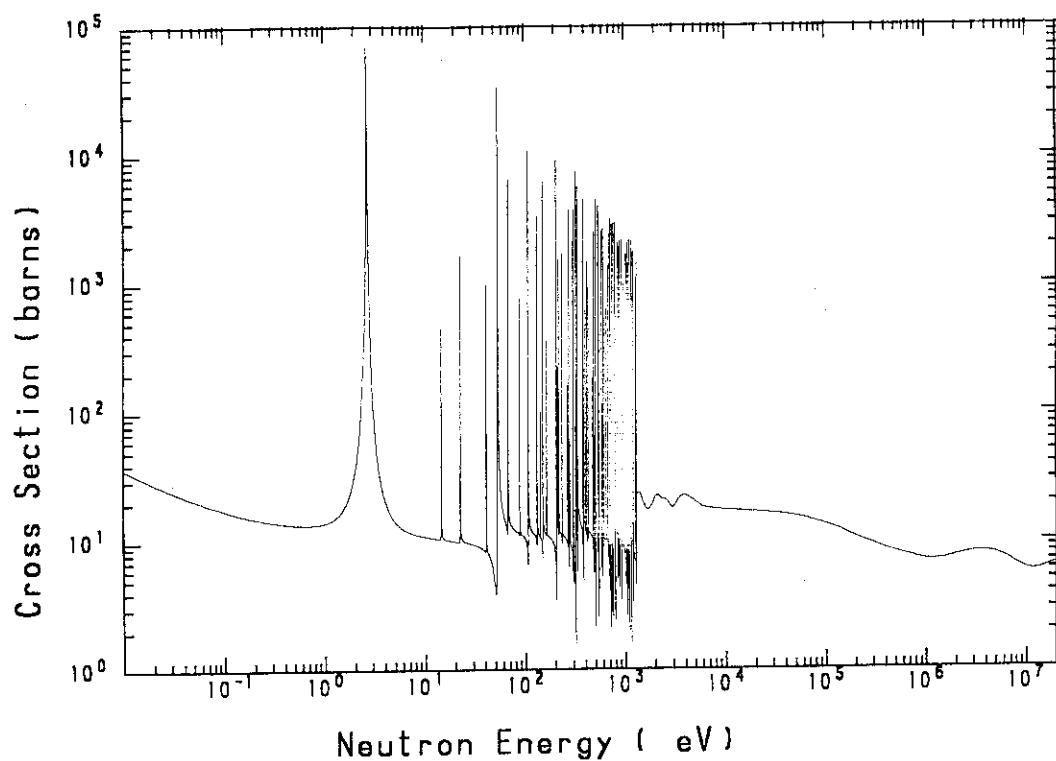
MAT=2945
MT= 4
51~55



MAT=2945
MT= 16
17
37

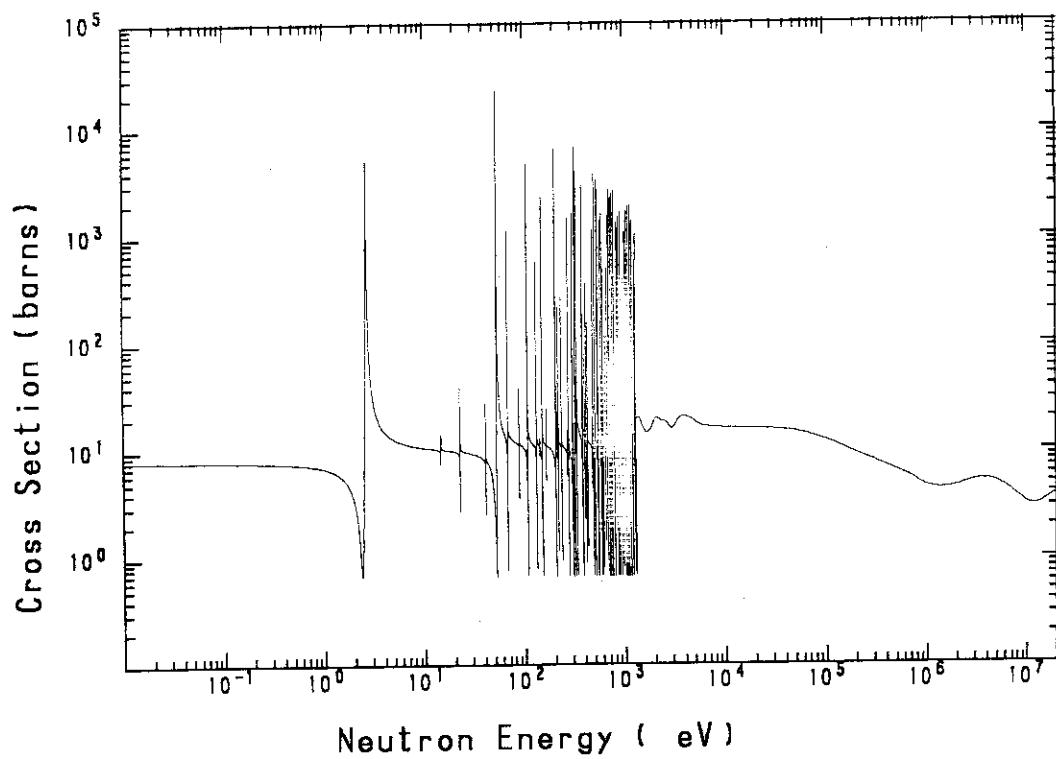
^{242}Pu
TOTAL

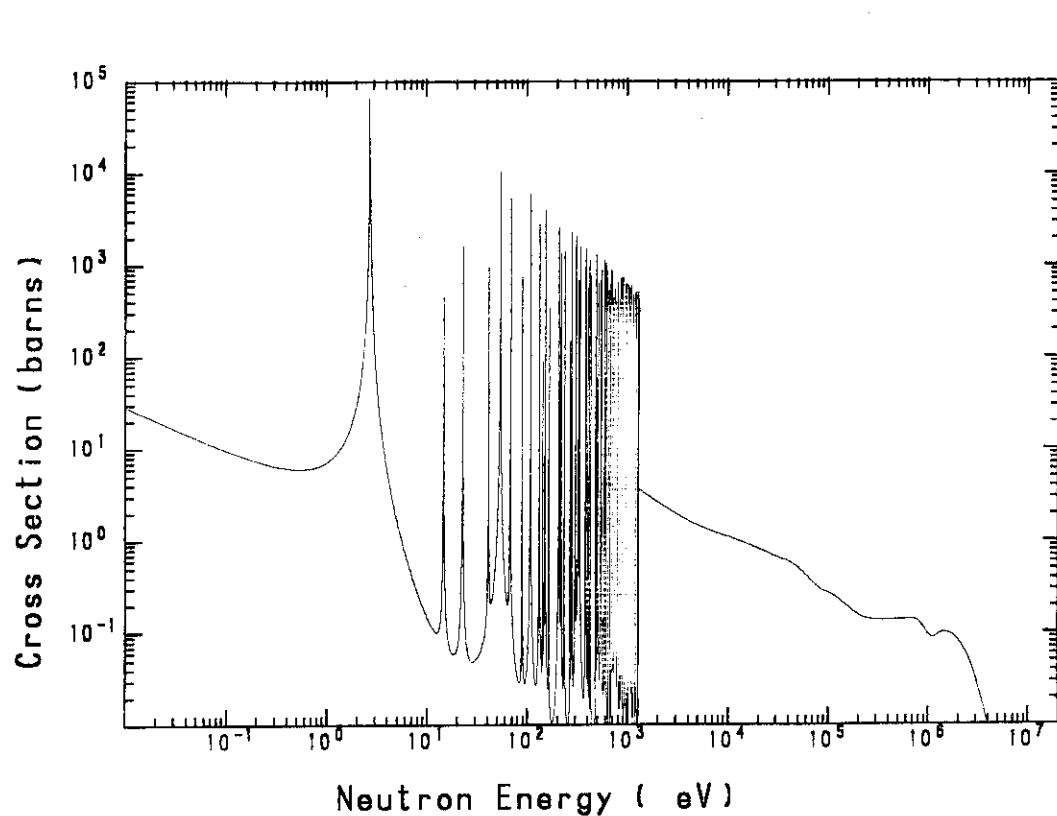
MAT=2946
MT= 1



^{242}Pu
(n, n)

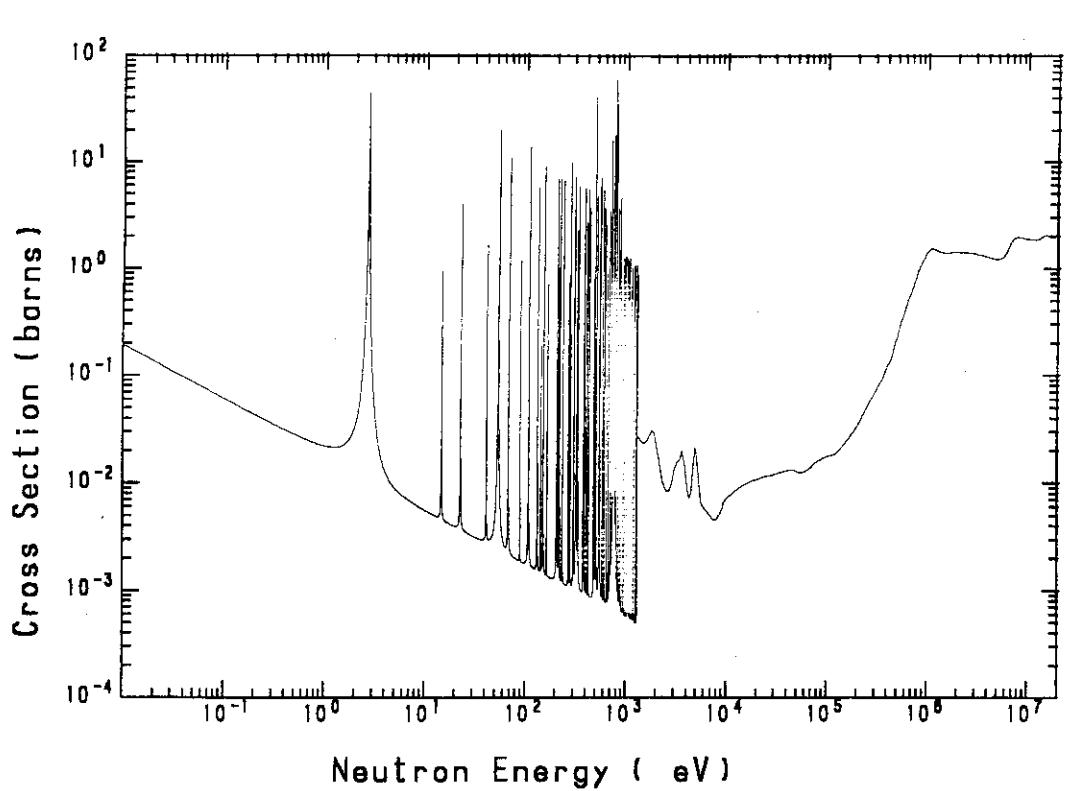
MAT=2946
MT= 2





242 Pu
(n, γ)

MAT=2946
MT= 102

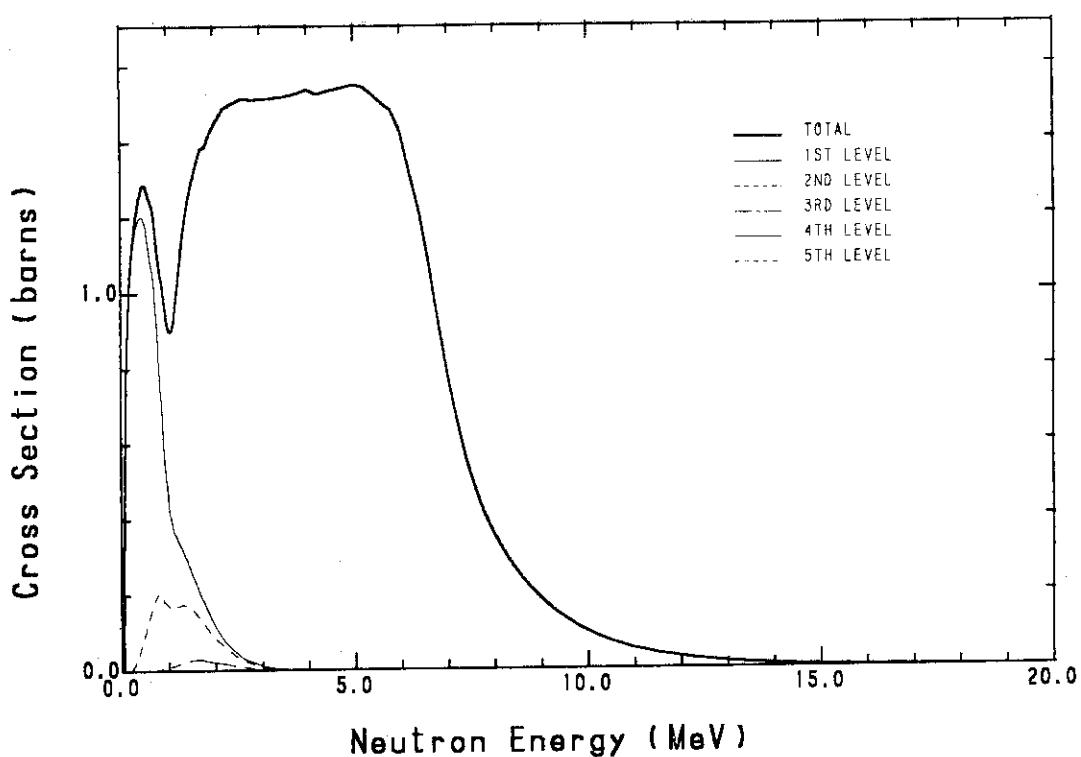


242 Pu
(n, f)

MAT=2946
MT= 18

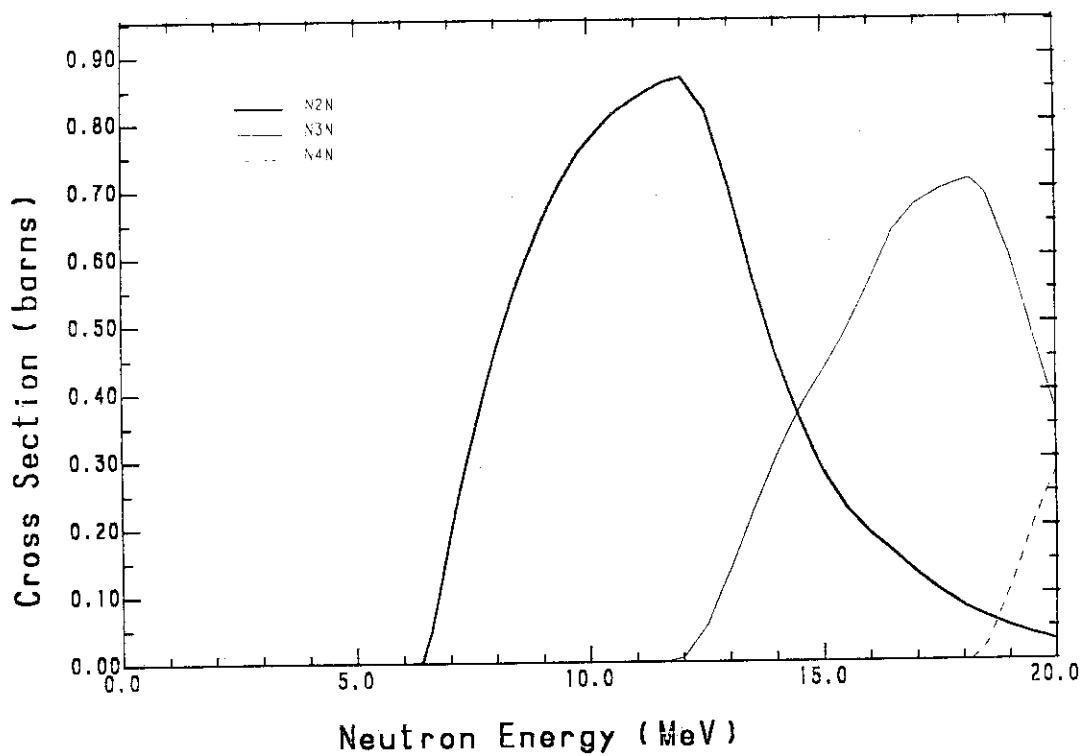
^{242}Pu
 (n, n')

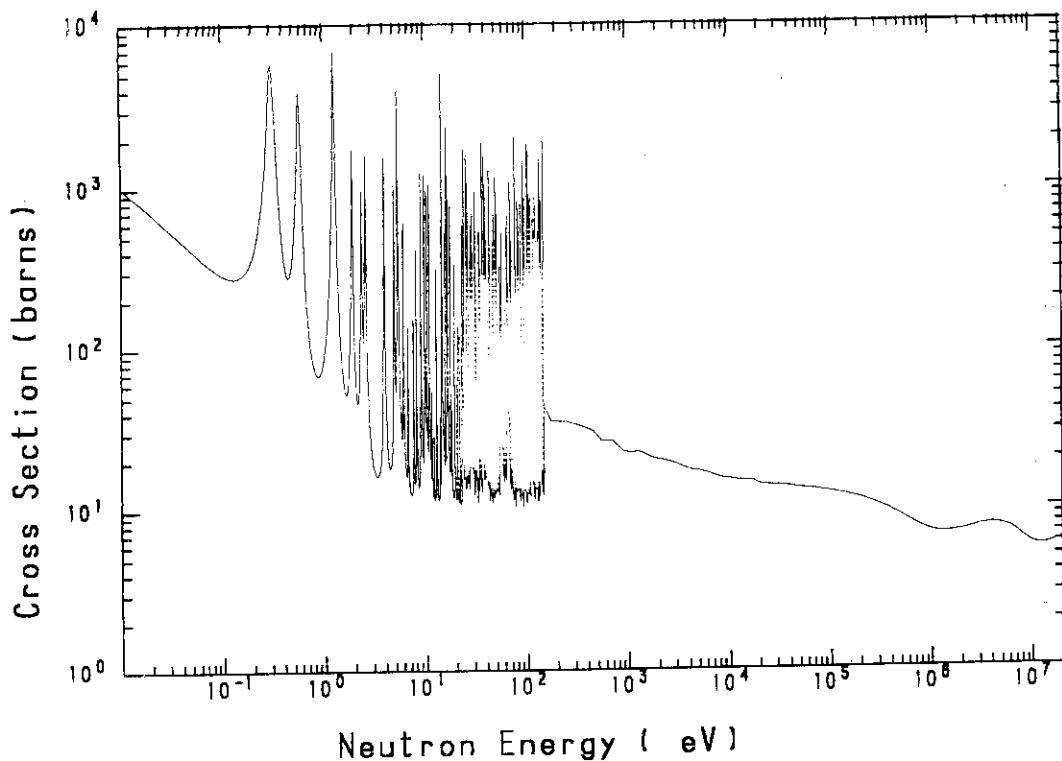
MAT=2946
MT= 4
51~55



^{242}Pu
 $(n, 2n)$
 $(n, 3n)$
 $(n, 4n)$

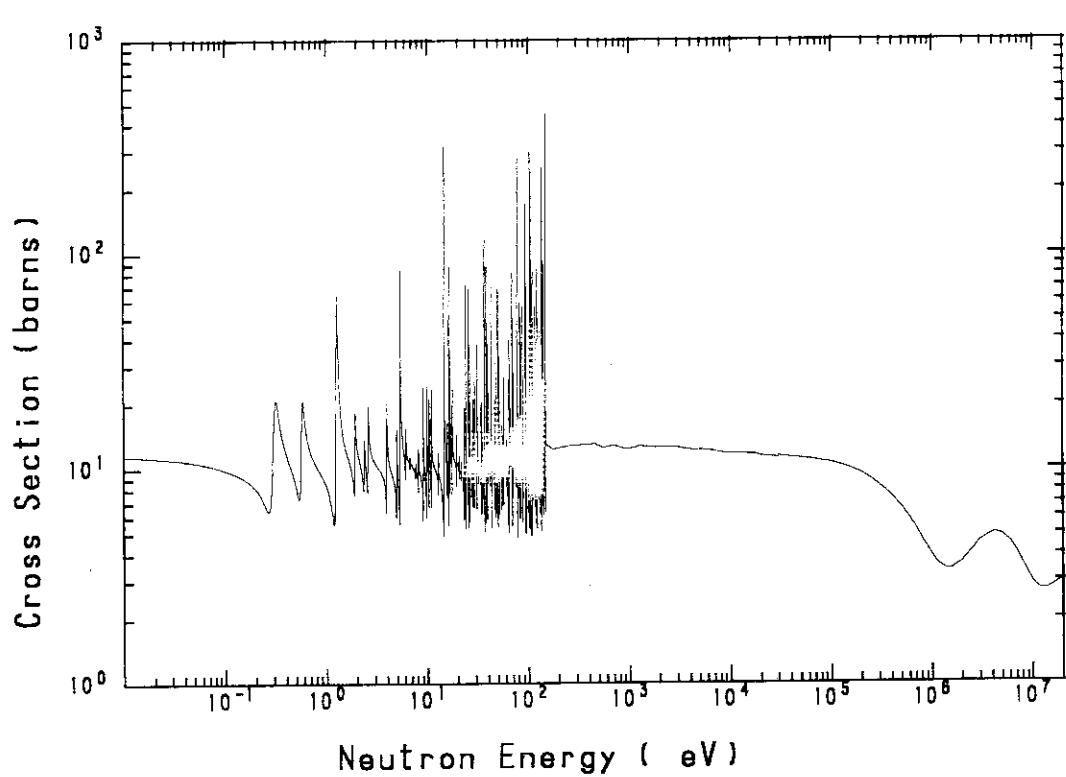
MAT=2946
MT= 16
17
37





^{241}Am
TOTAL

MAT=2951
MT= 1

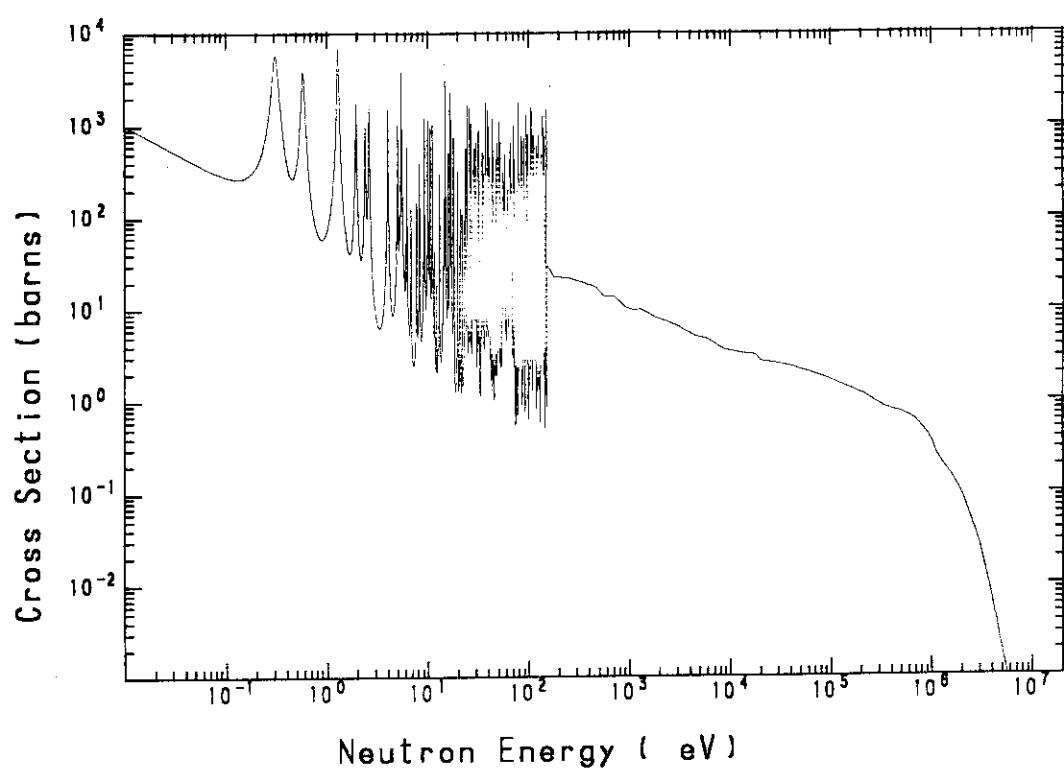


^{241}Am
(n, n)

MAT=2951
MT= 2

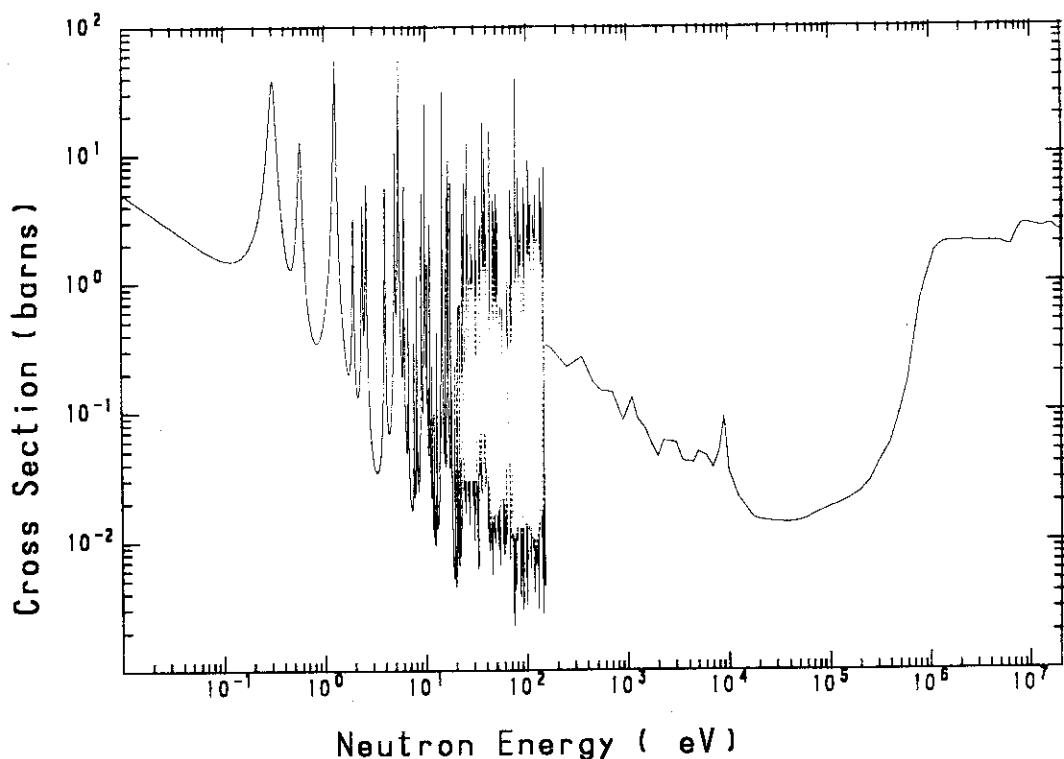
^{241}Am
 (n, γ)

MAT=2951
MT = 102

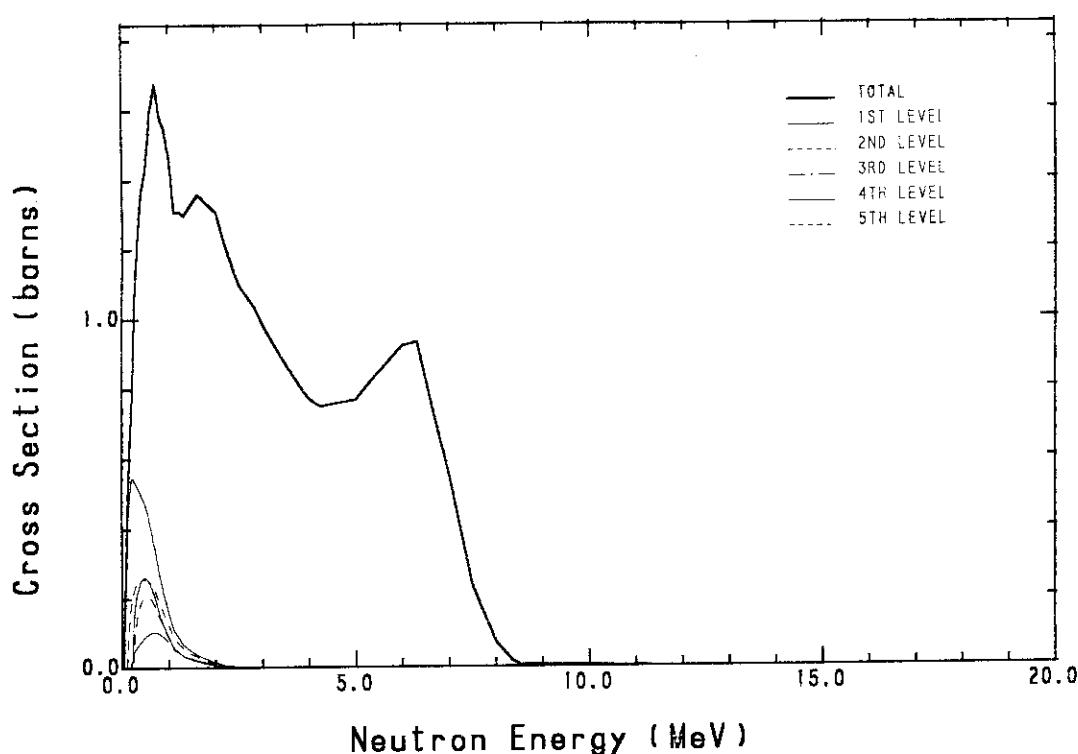


^{241}Am
 (n, f)

MAT=2951
MT = 18

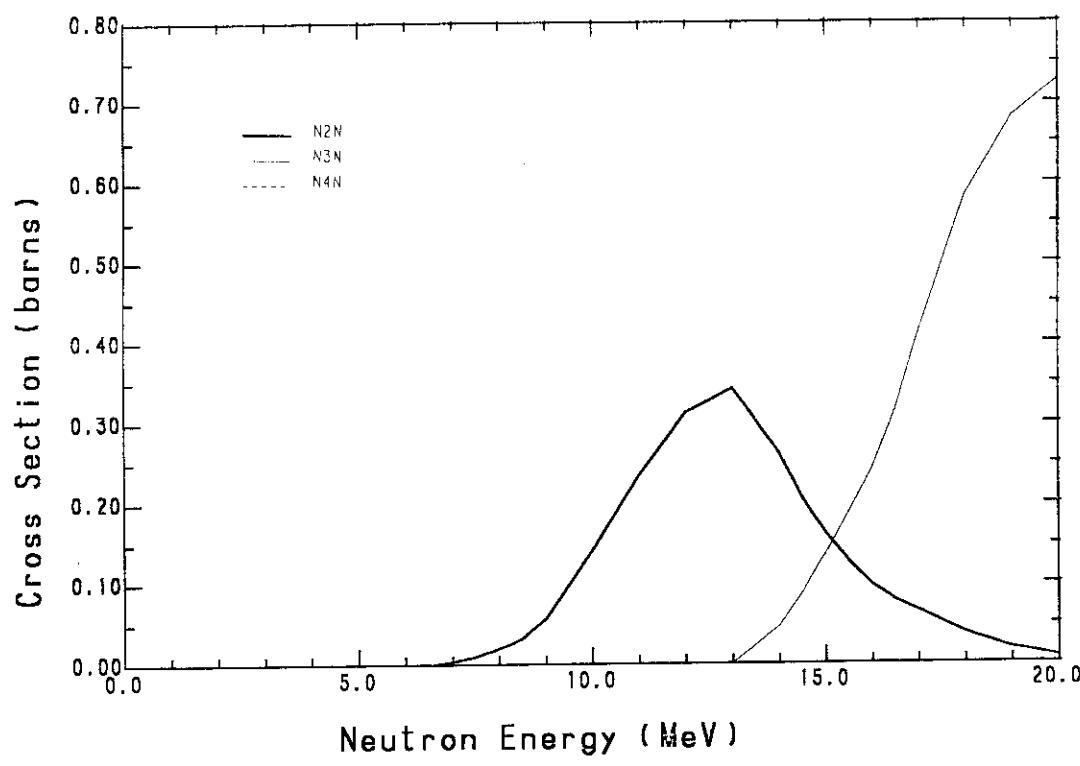


^{241}Am
 (n, n')



MAT=2951
MT= 4
51~55

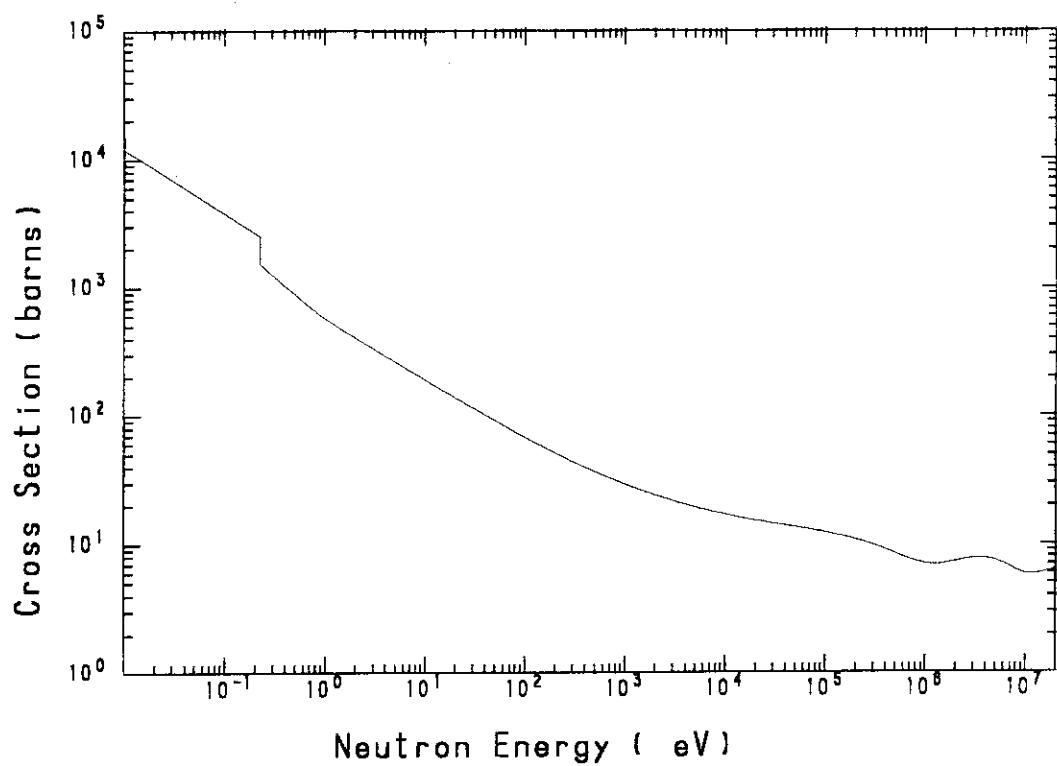
^{241}Am
 $(n, 2n)$
 $(n, 3n)$
 $(n, 4n)$



MAT=2951
MT= 16
17
37

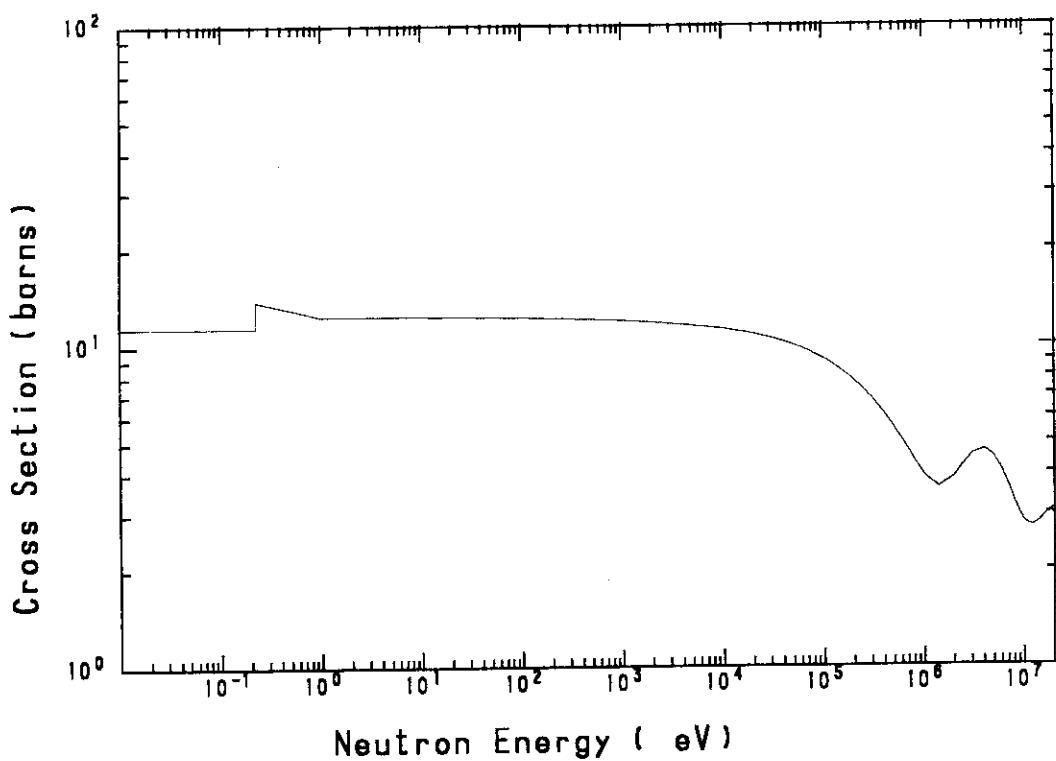
242g Am
TOTAL

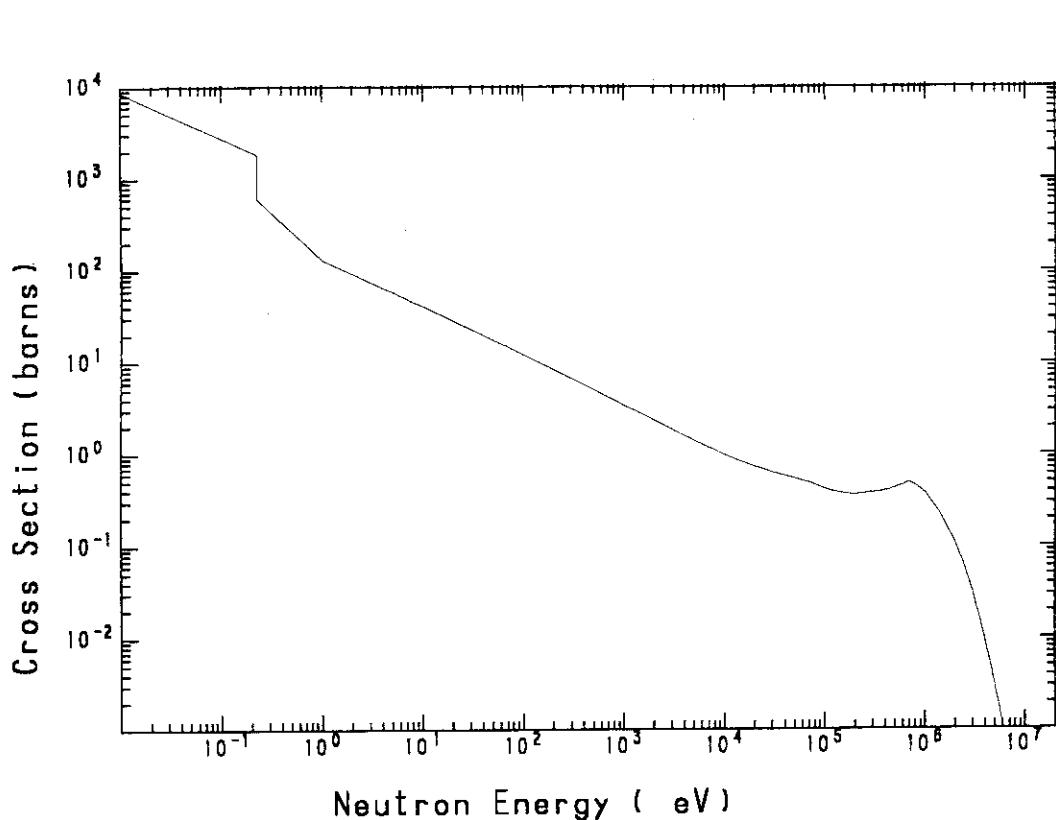
MAT=2952
 MT= 1



242g Am
(n, n)

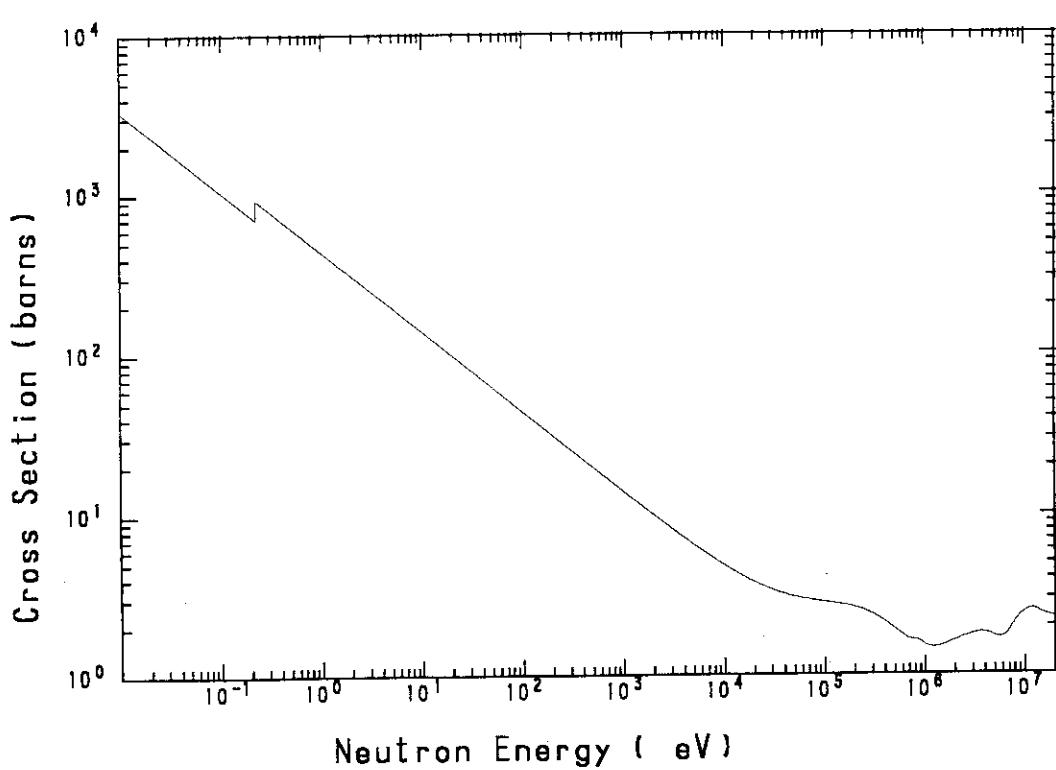
MAT=2952
 MT= 2





^{242}Am
 (n, γ)

MAT=2952
MT = 102

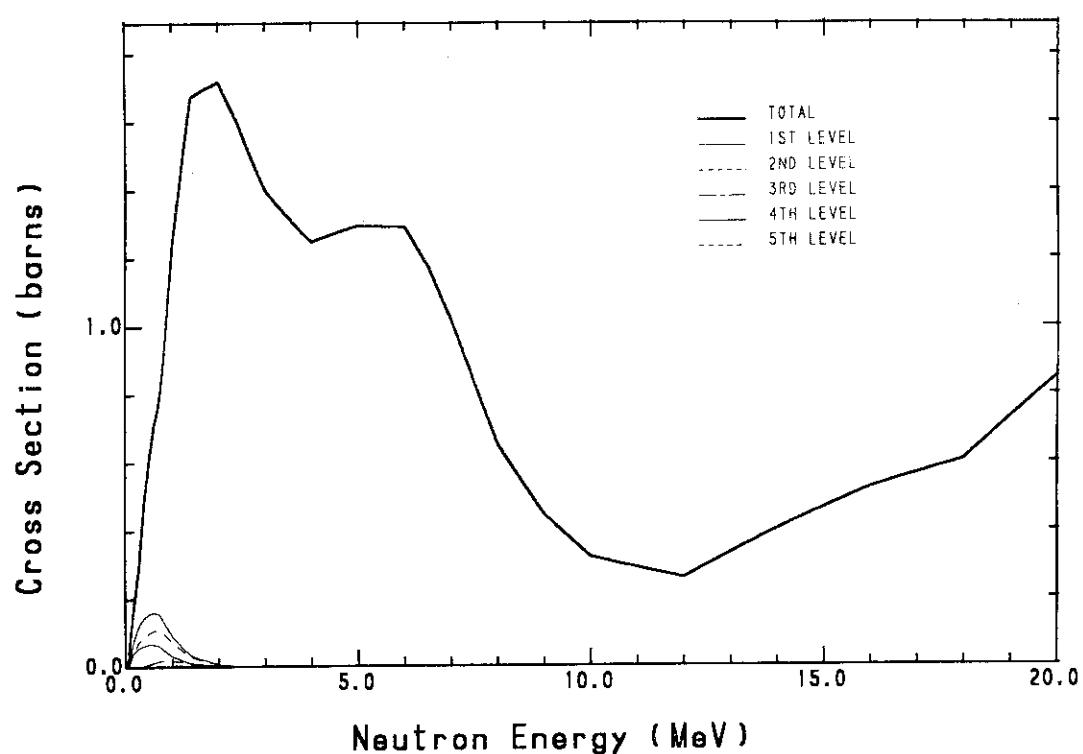


^{242}Am
 (n, f)

MAT=2952
MT = 18

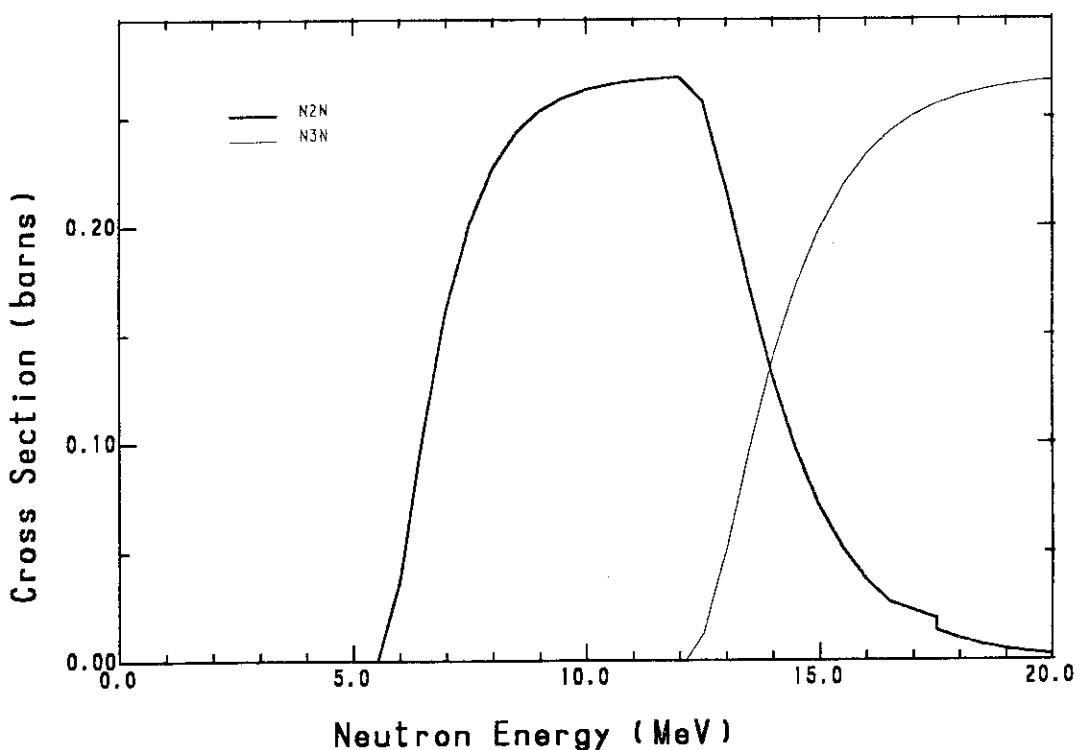
^{242g}Am
(n, n')

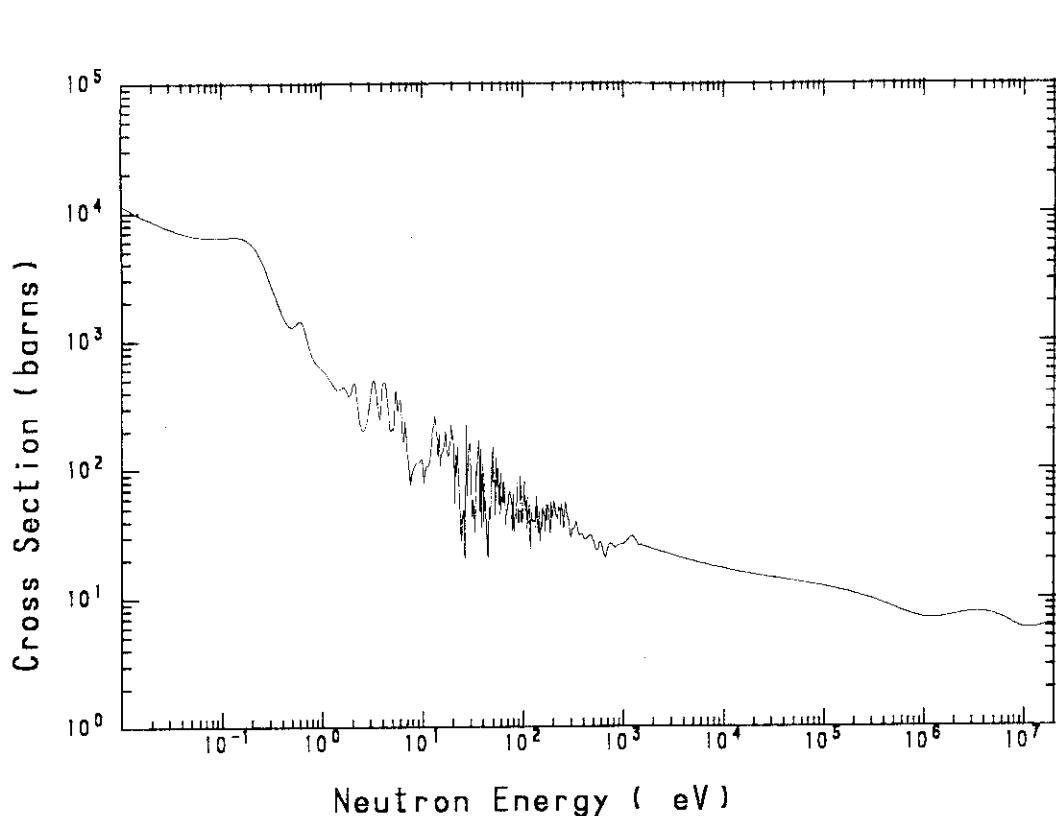
MAT=2952
 MT= 4
 51~55



^{242g}Am
($n, 2n$)
($n, 3n$)

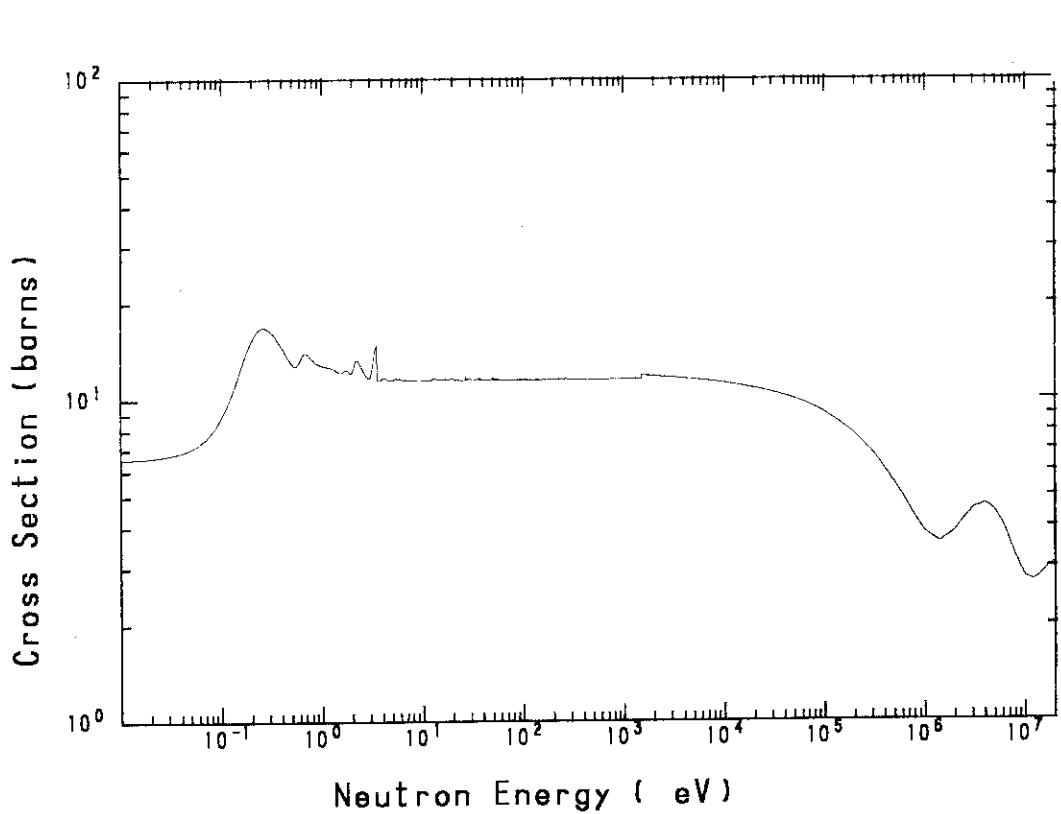
MAT=2952
 MT= 16
 17





$^{242}\text{m Am}$
TOTAL

MAT=2953
MT= 1

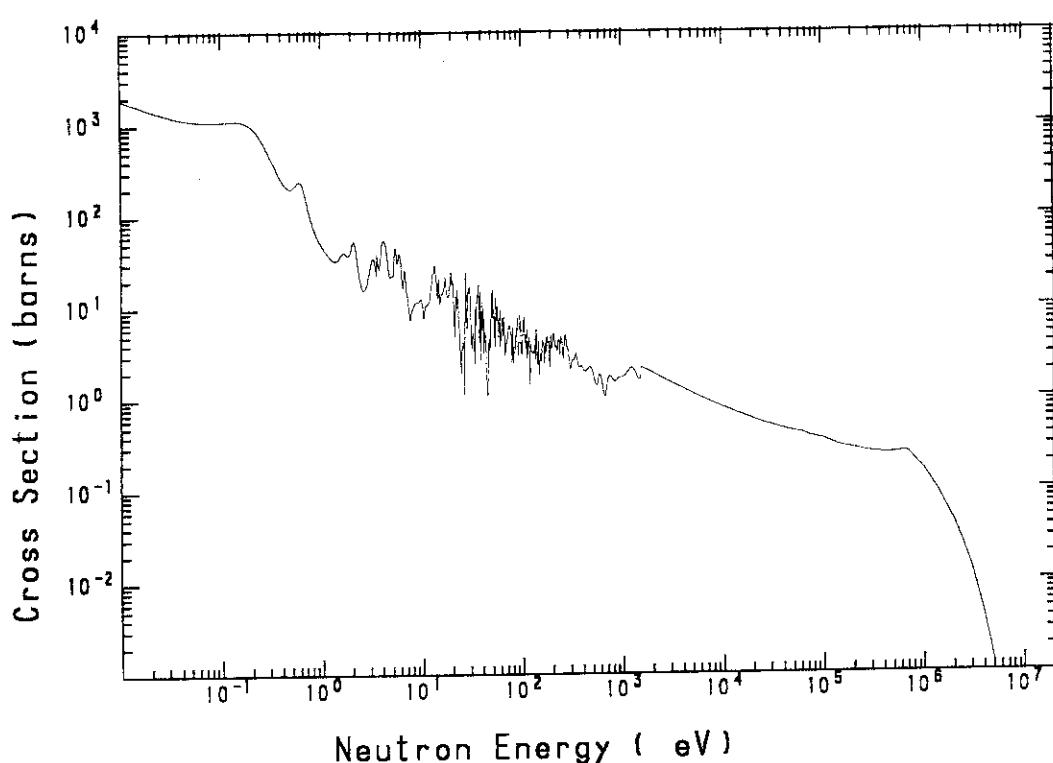


$^{242}\text{m Am}$
 (n, n)

MAT=2953
MT= 2

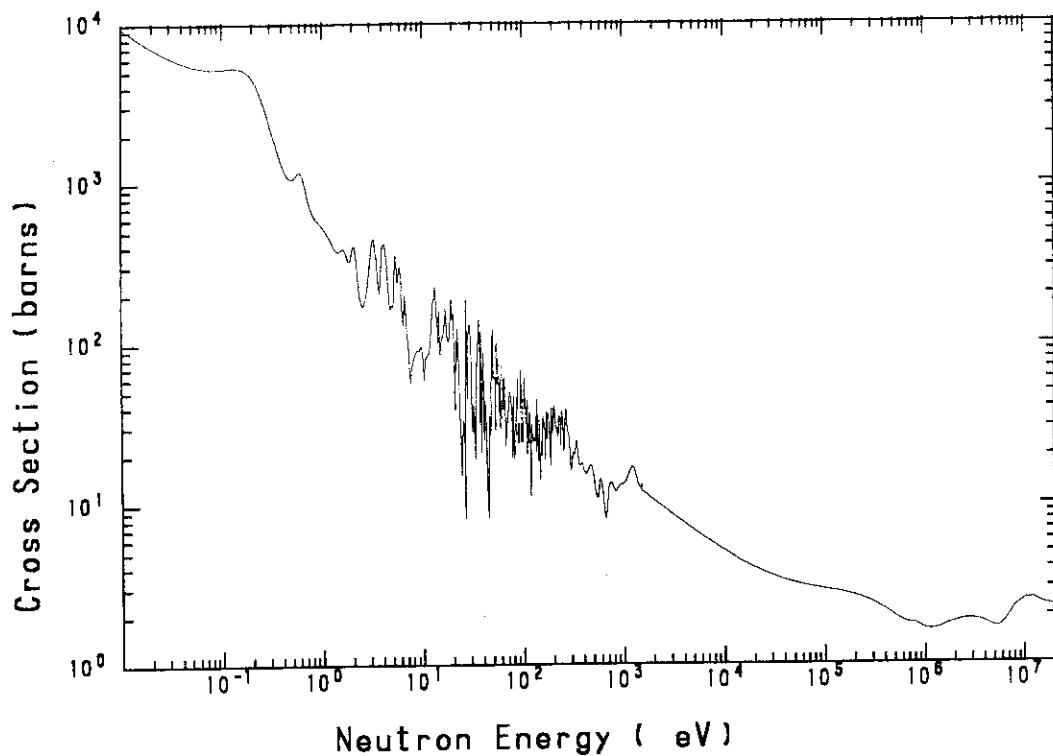
^{242m}Am
(n, γ)

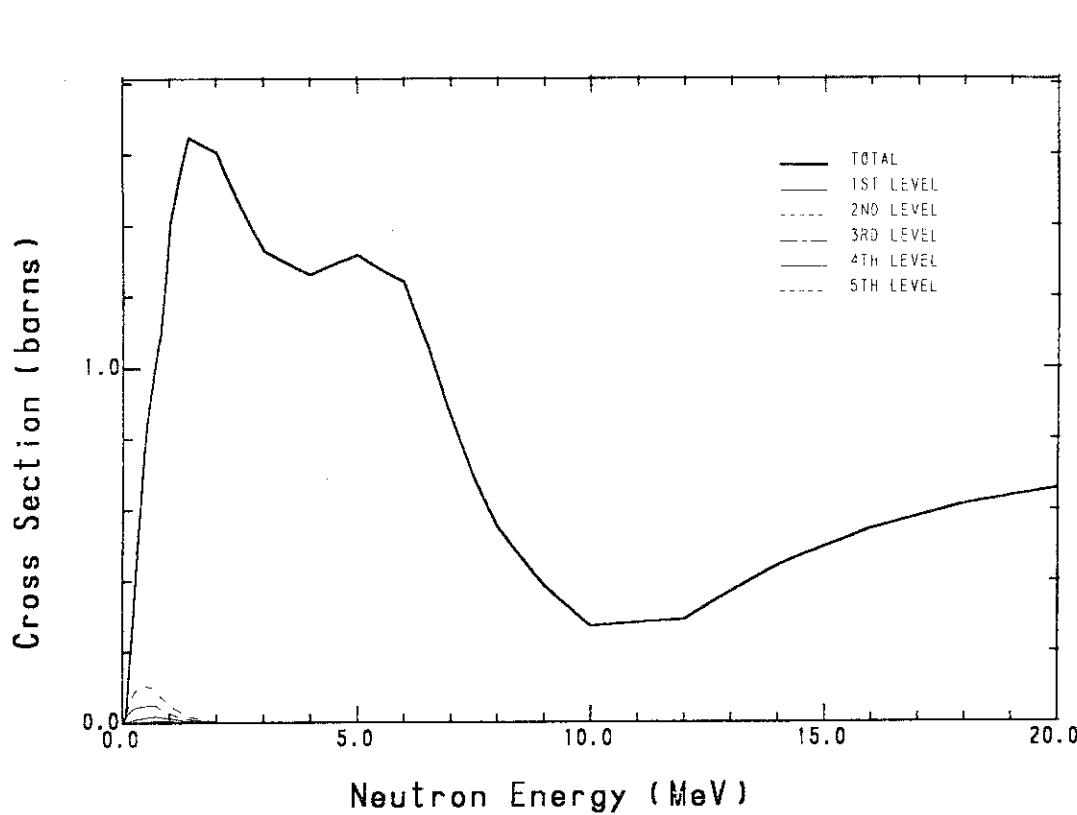
MAT=2953
 MT= 102



^{242m}Am
(n, f)

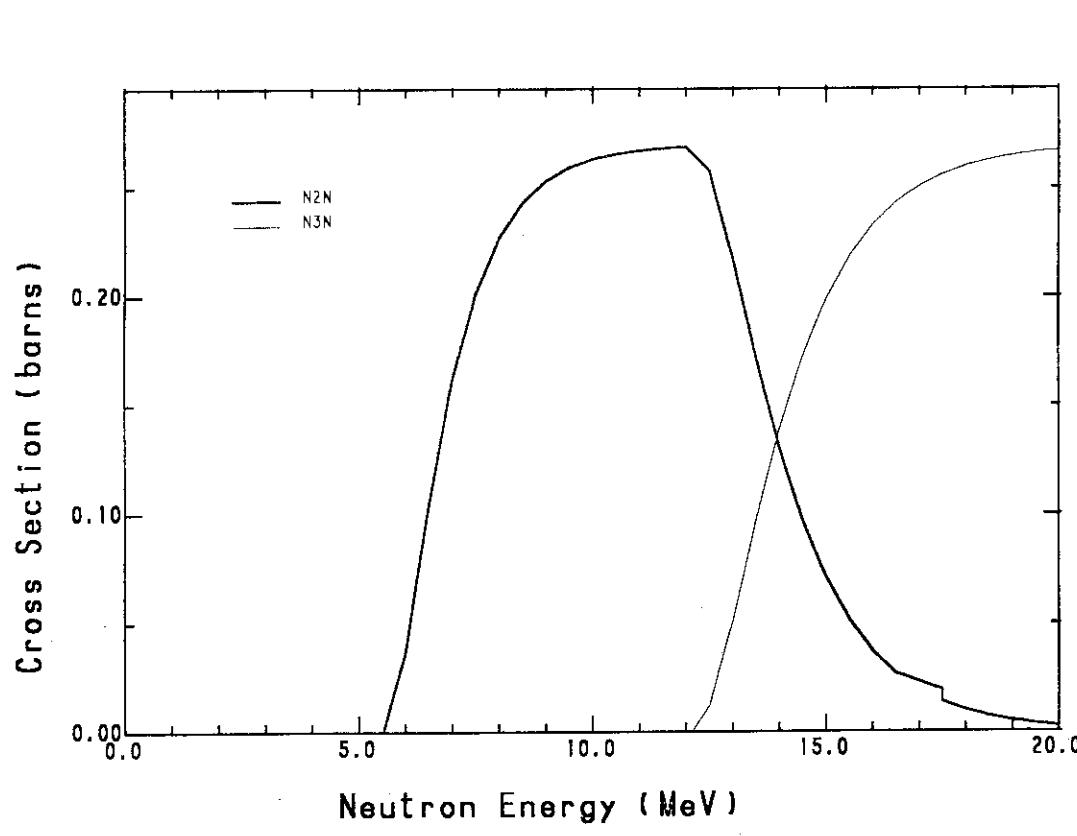
MAT=2953
 MT= 18





^{242m}Am
(n, n')

MAT=2953
MT= 4
51~55

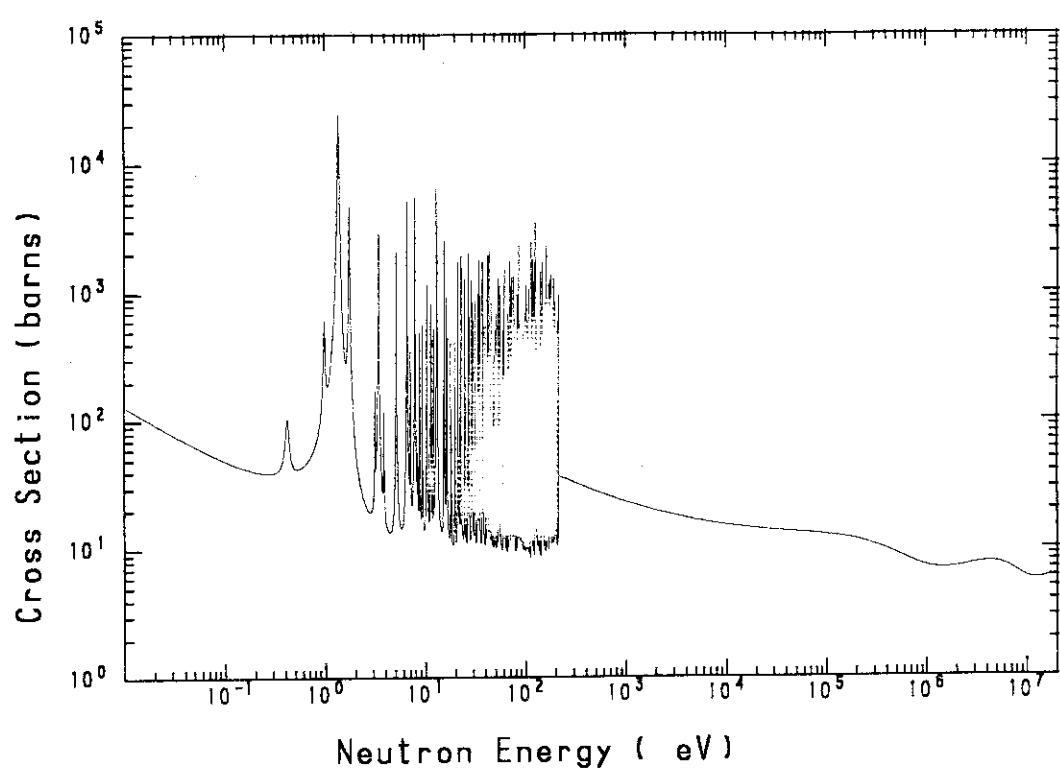


^{242m}Am
($n, 2n$)
($n, 3n$)

MAT=2953
MT= 16
17

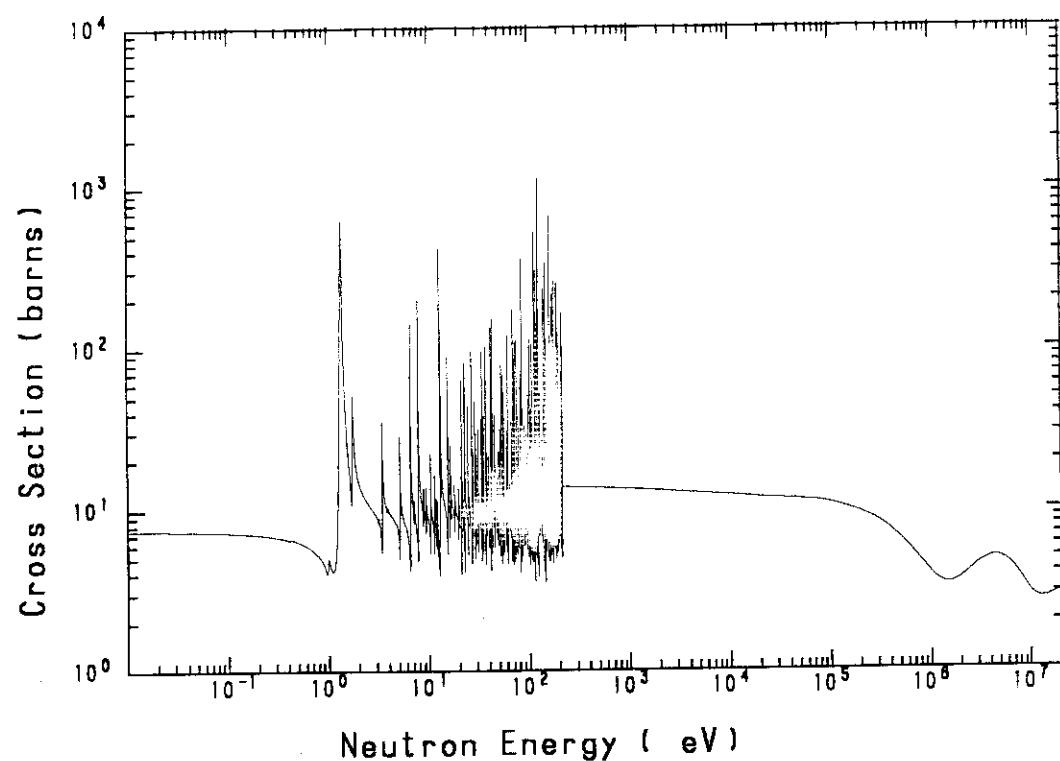
^{243}Am
TOTAL

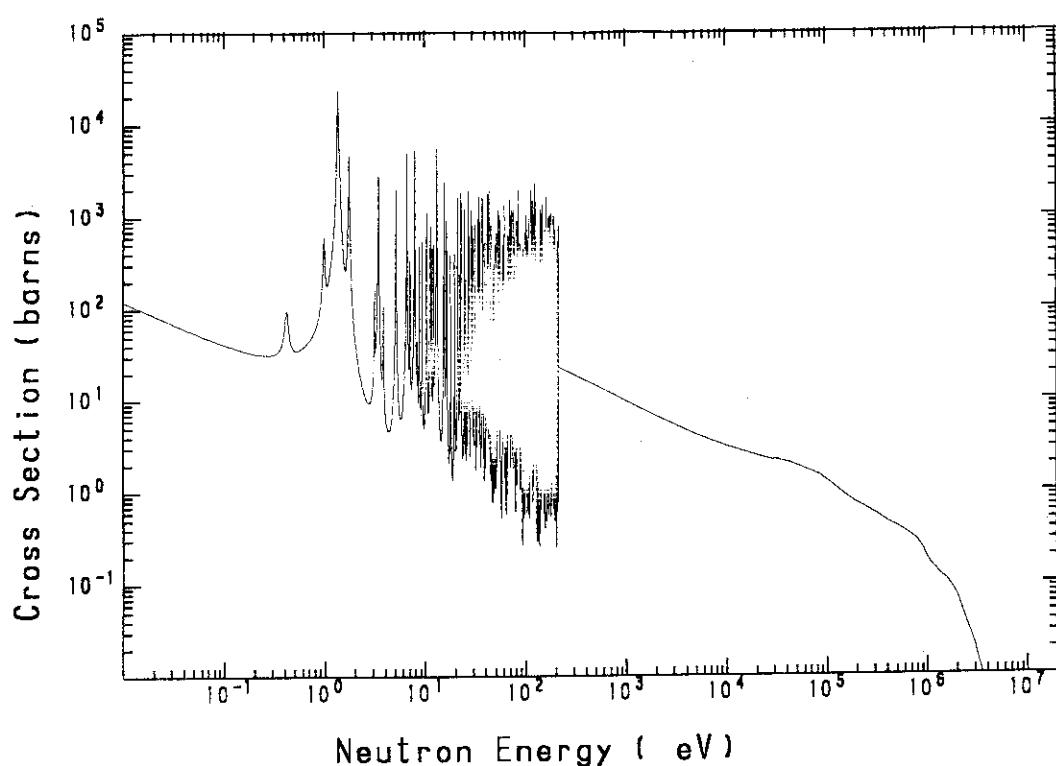
MAT=2954
MT= 1



^{243}Am
(n, n)

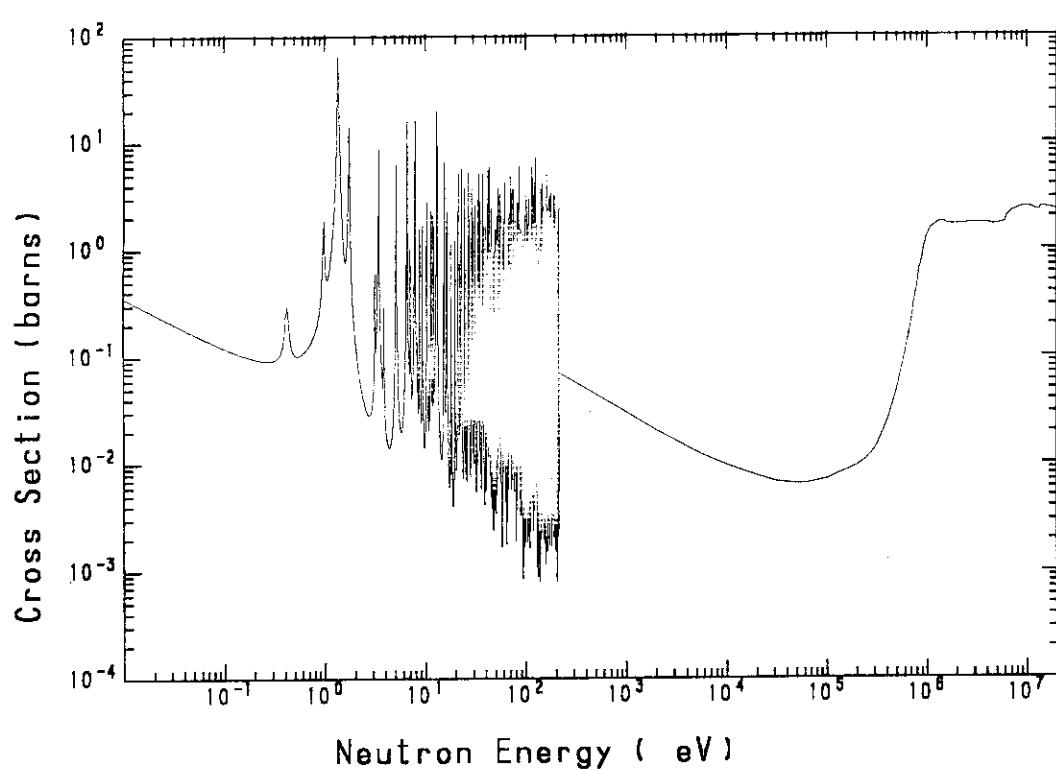
MAT=2954
MT= 2





243 Am
 (n, γ)

MAT=2954
MT= 102

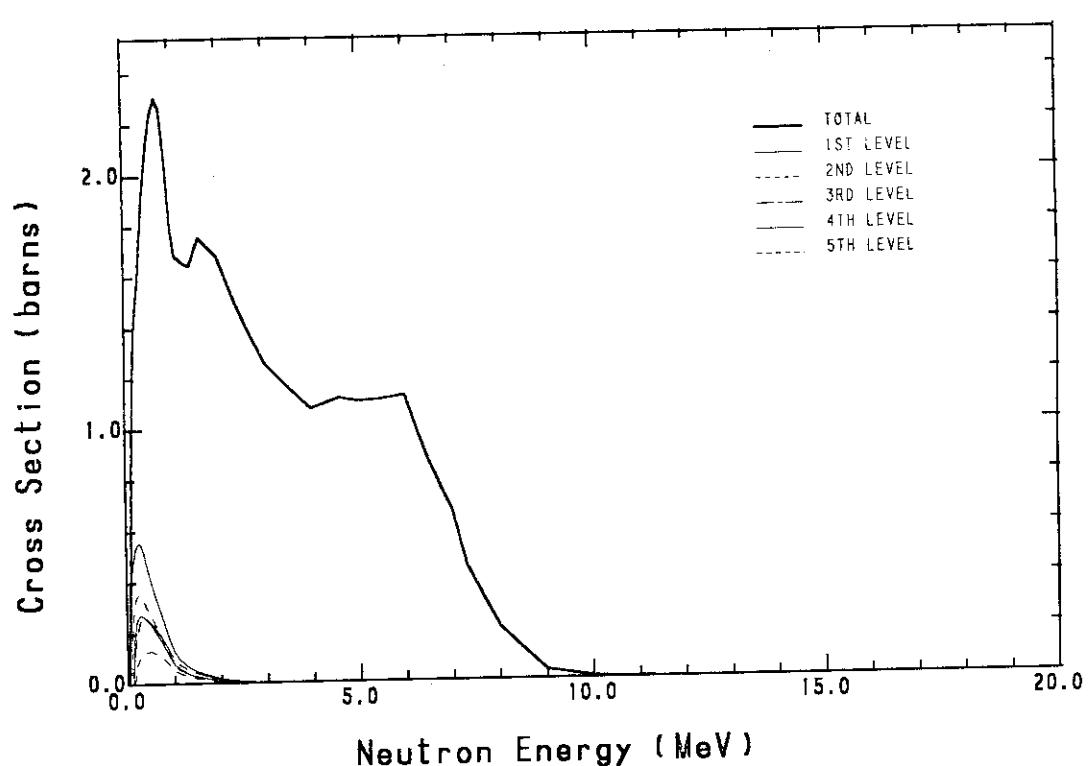


243 Am
 (n, f)

MAT=2954
MT= 18

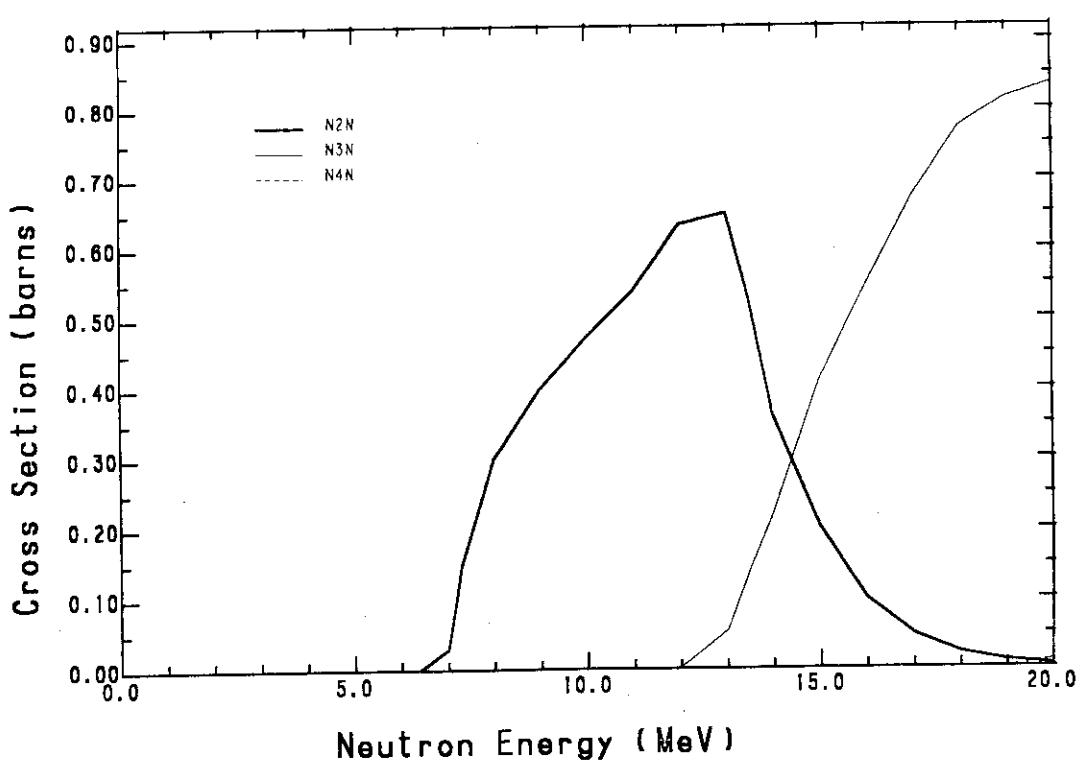
^{243}Am
 (n, n')

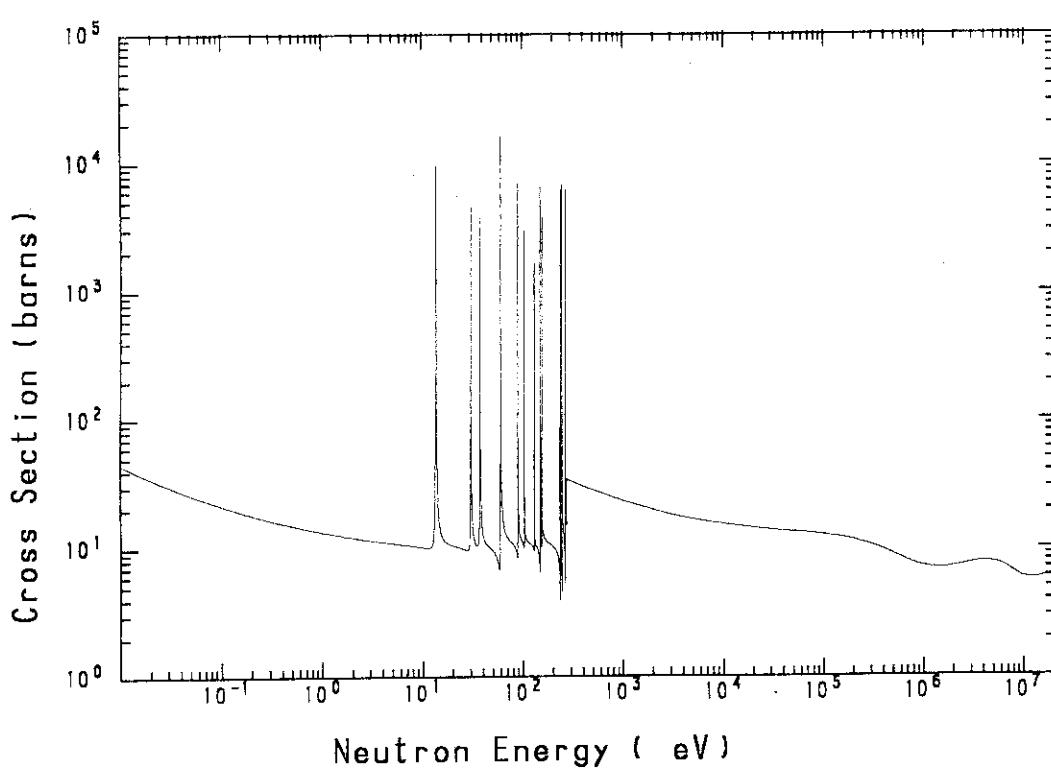
MAT=2954
MT= 4
51~55



^{243}Am
 $(n, 2n)$
 $(n, 3n)$
 $(n, 4n)$

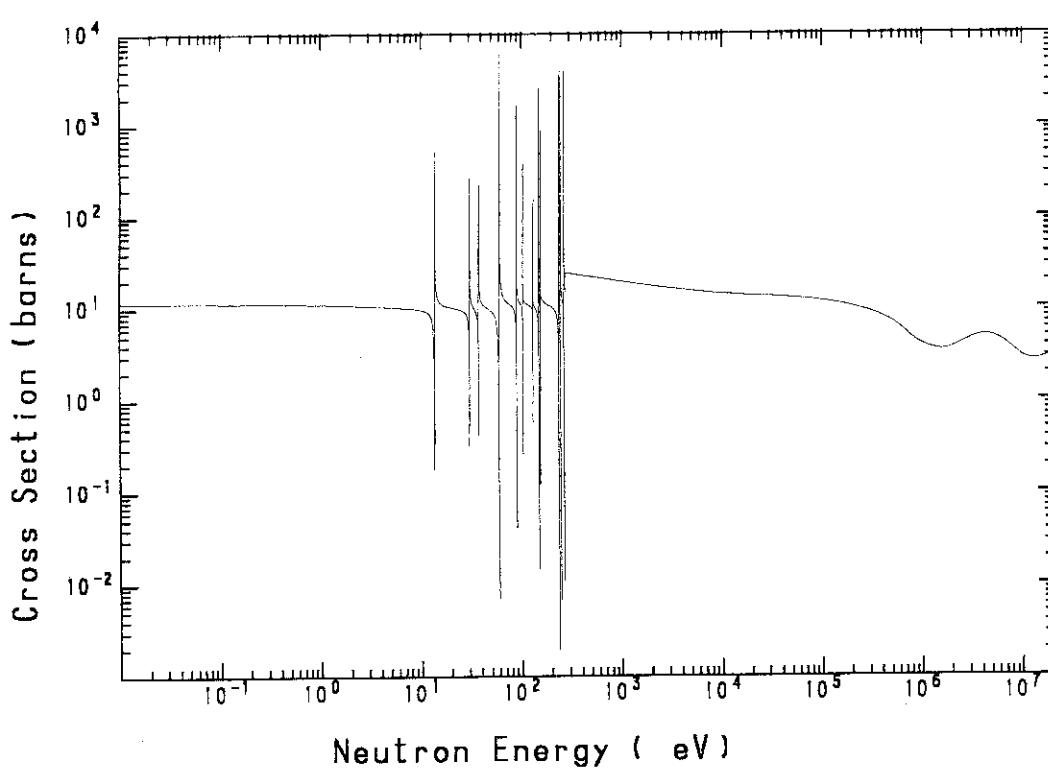
MAT=2954
MT= 16
17
37





^{242}Cm
TOTAL

MAT=2961
MT= 1

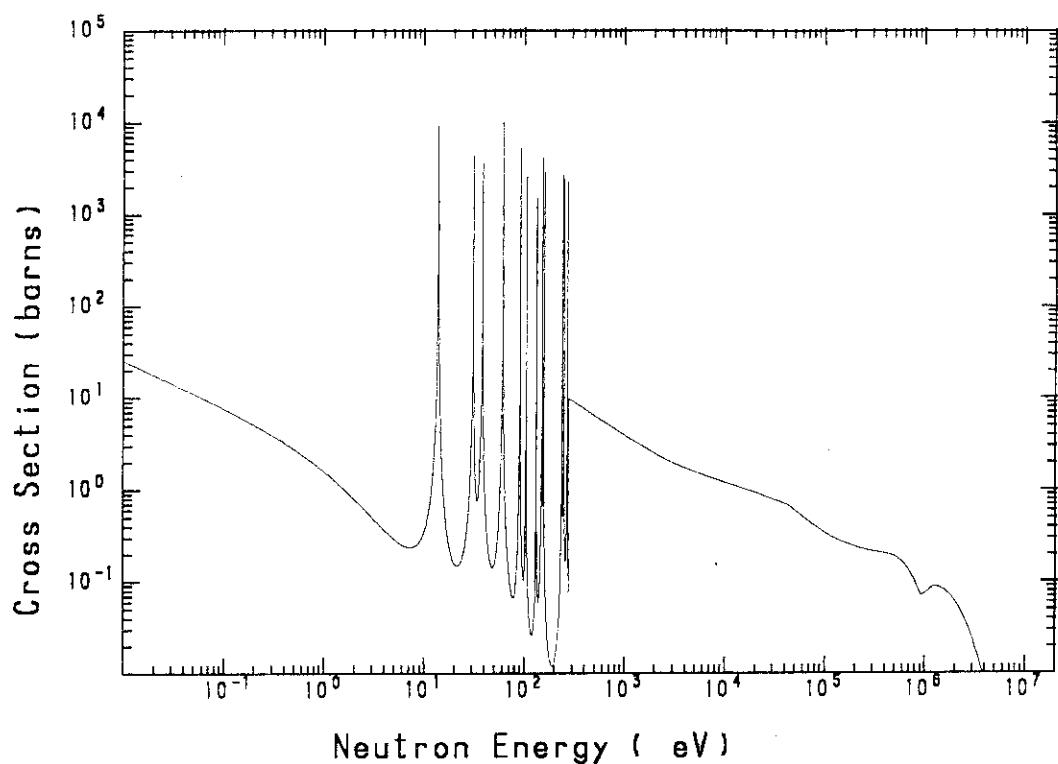


^{242}Cm
(n, n)

MAT=2961
MT= 2

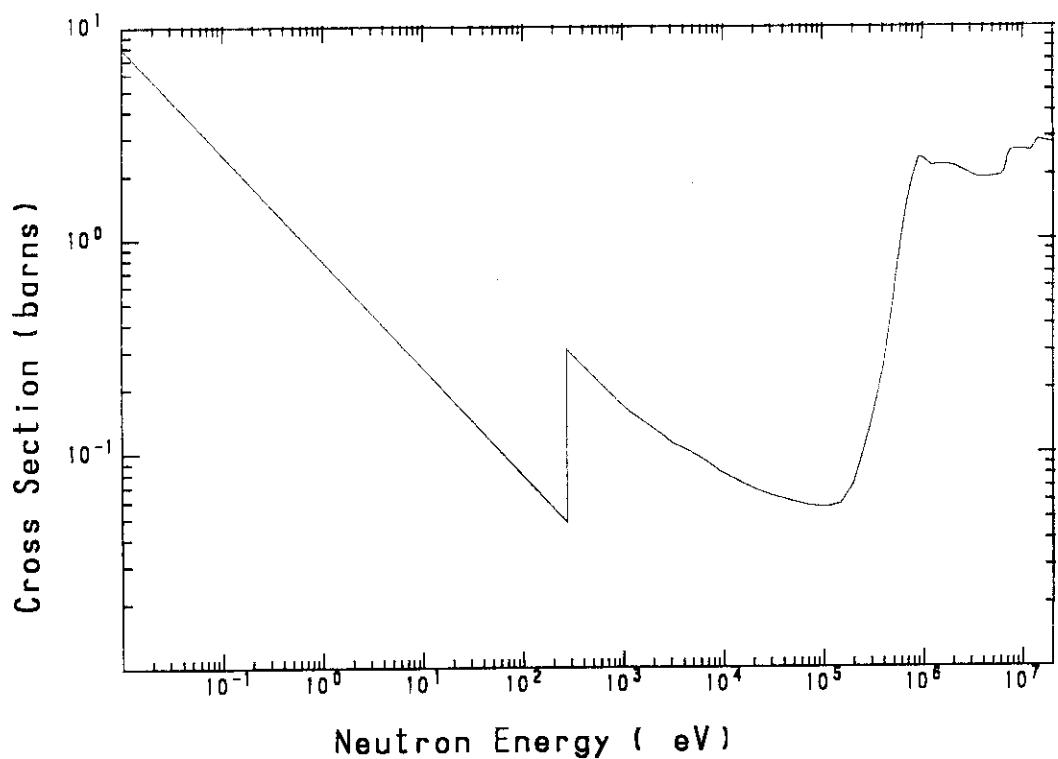
^{242}Cm
(n, γ)

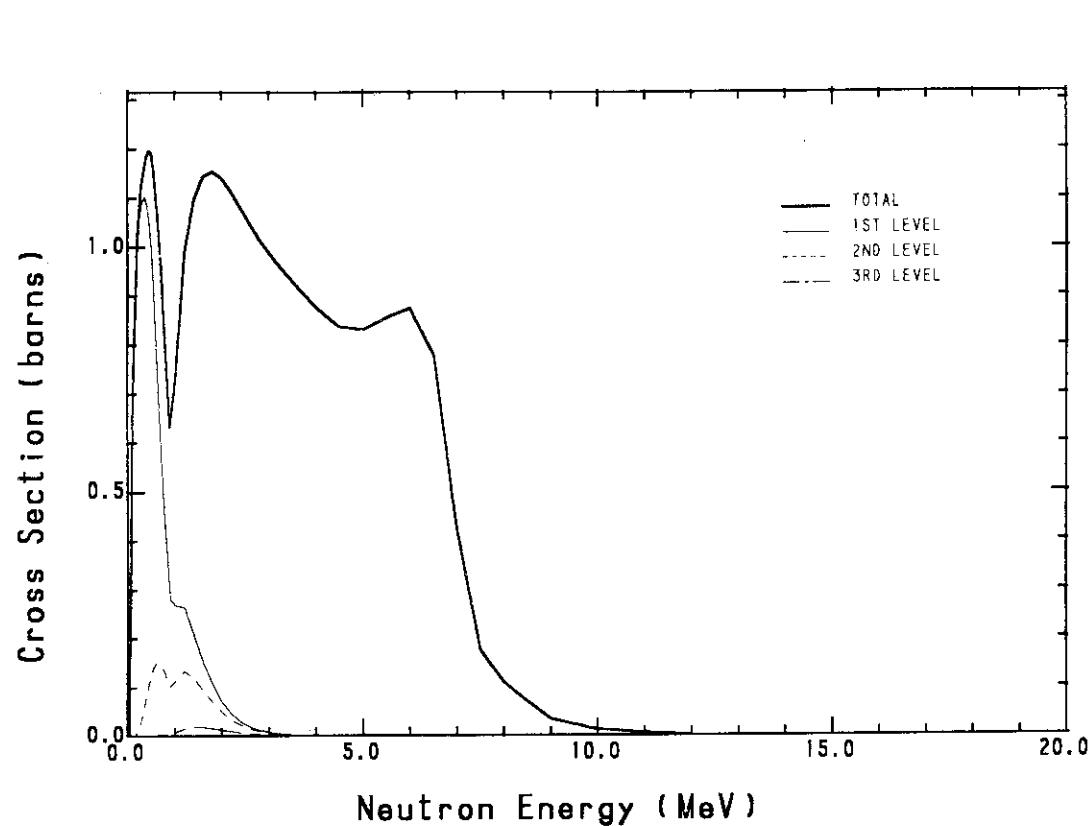
MAT=2961
 MT= 102



^{242}Cm
(n, f)

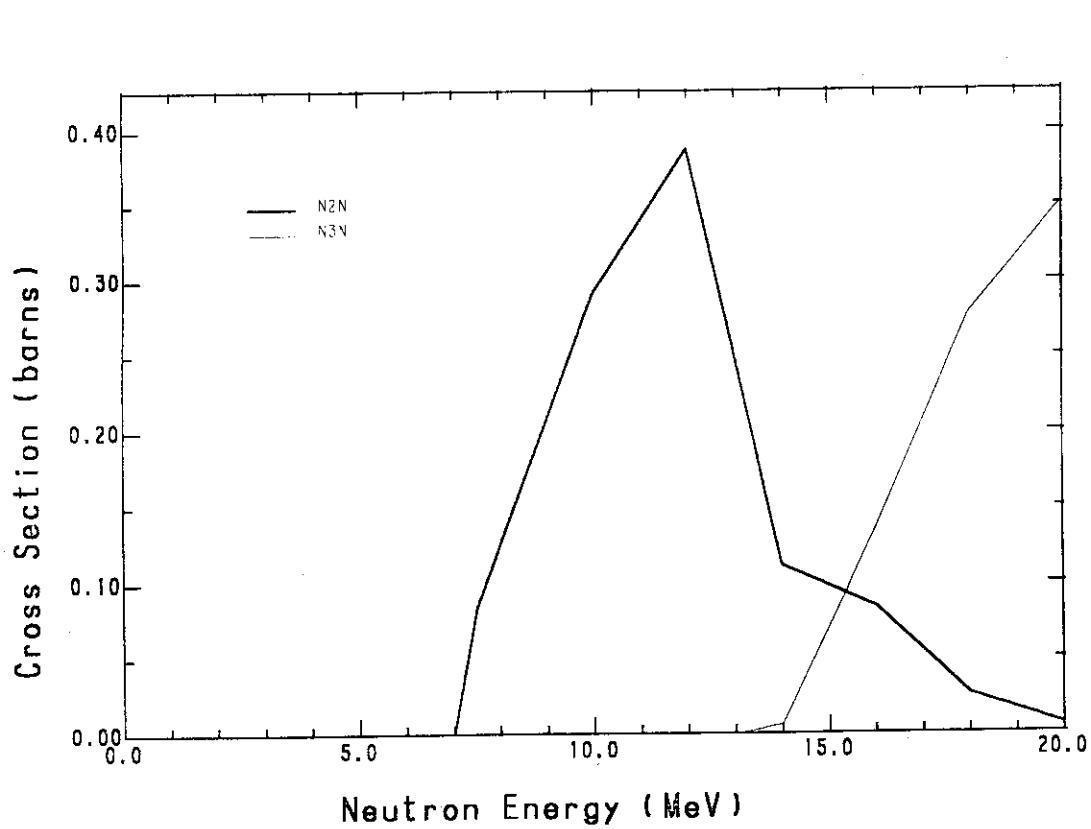
MAT=2961
 MT= 18





^{242}Cm
 (n, n')

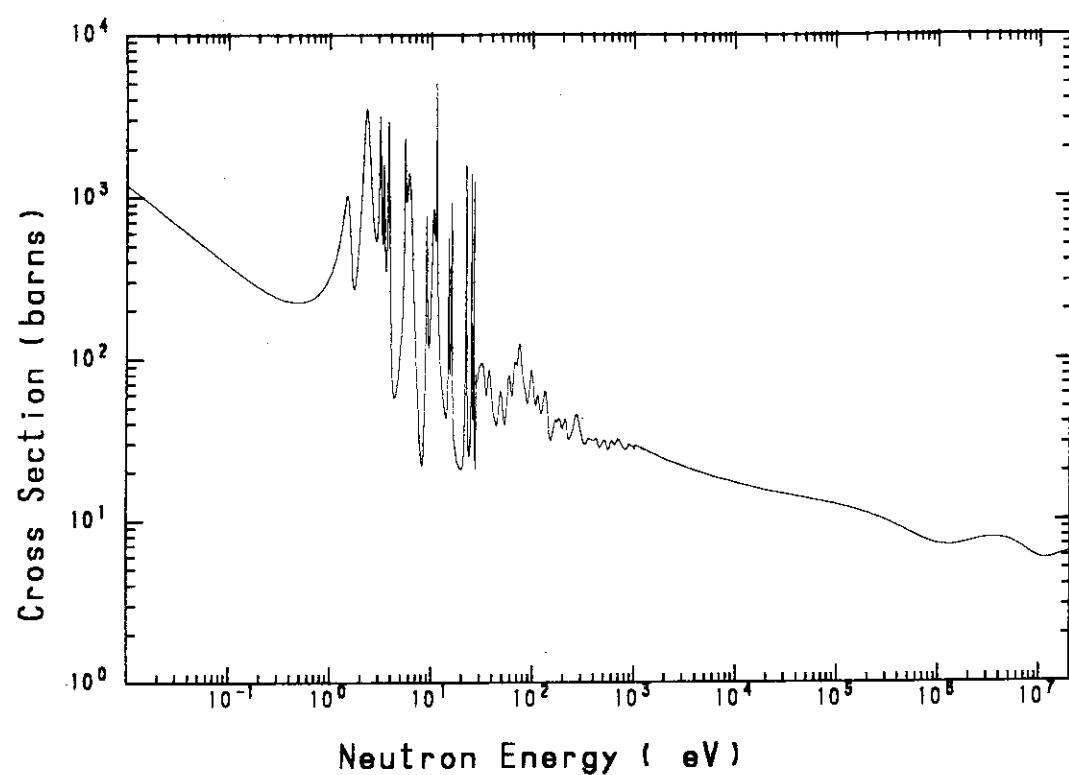
MAT=2961
MT= 4
51~55



^{242}Cm
 $(n, 2n)$
 $(n, 3n)$

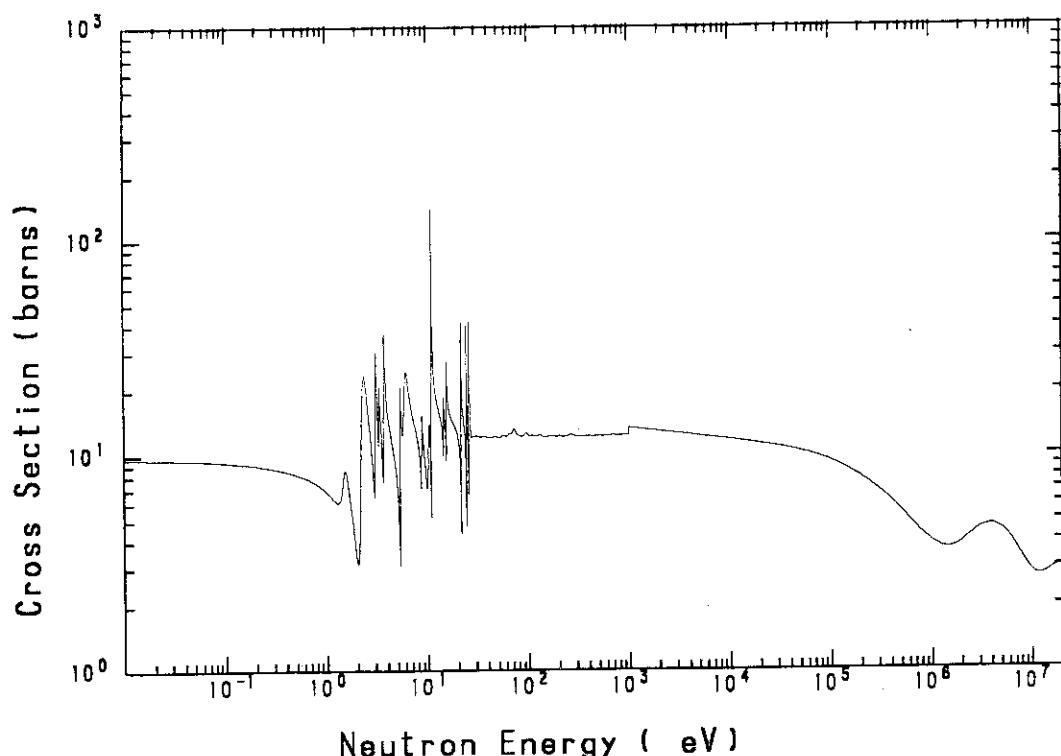
MAT=2961
MT= 16
17

^{243}Cm
TOTAL



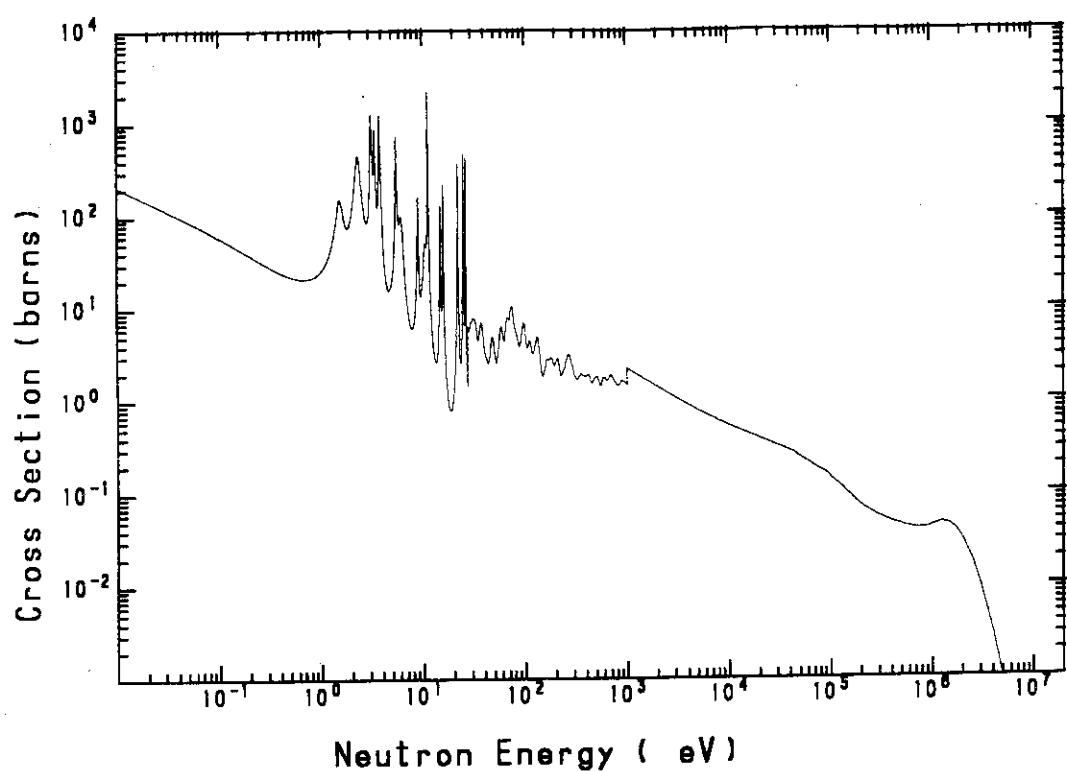
MAT=2962
 MT= 1

^{243}Cm
(n, n)



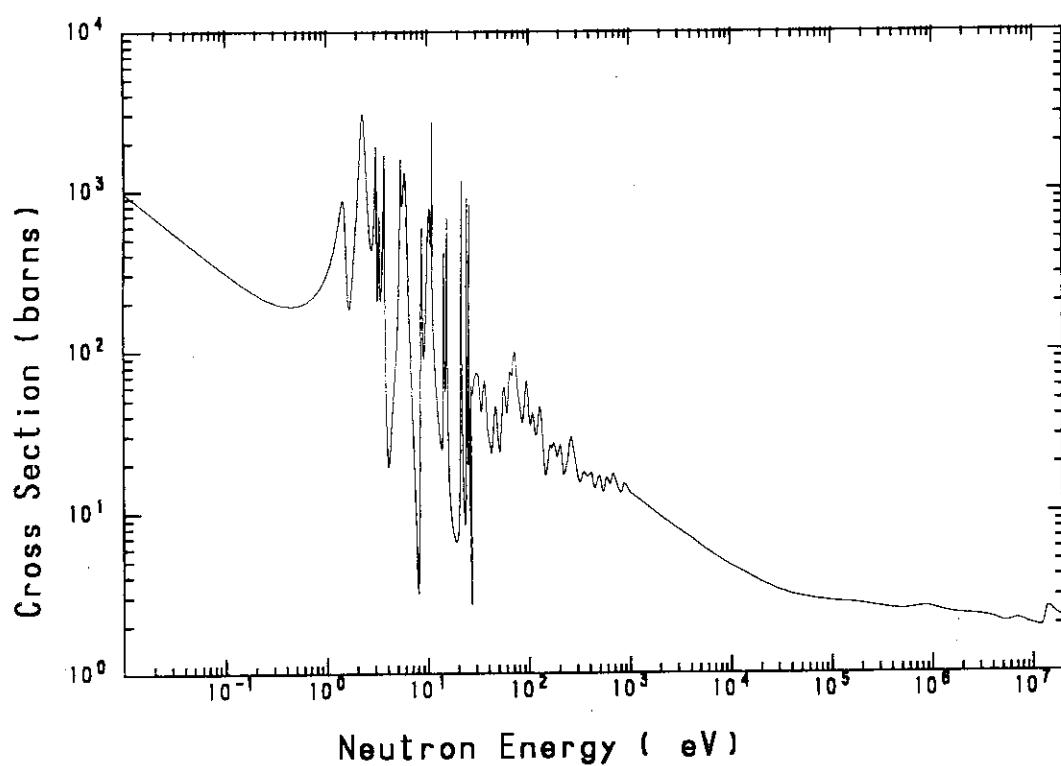
MAT=2962
 MT= 2

^{243}Cm
(n, γ)



MAT=2962
MT = 102

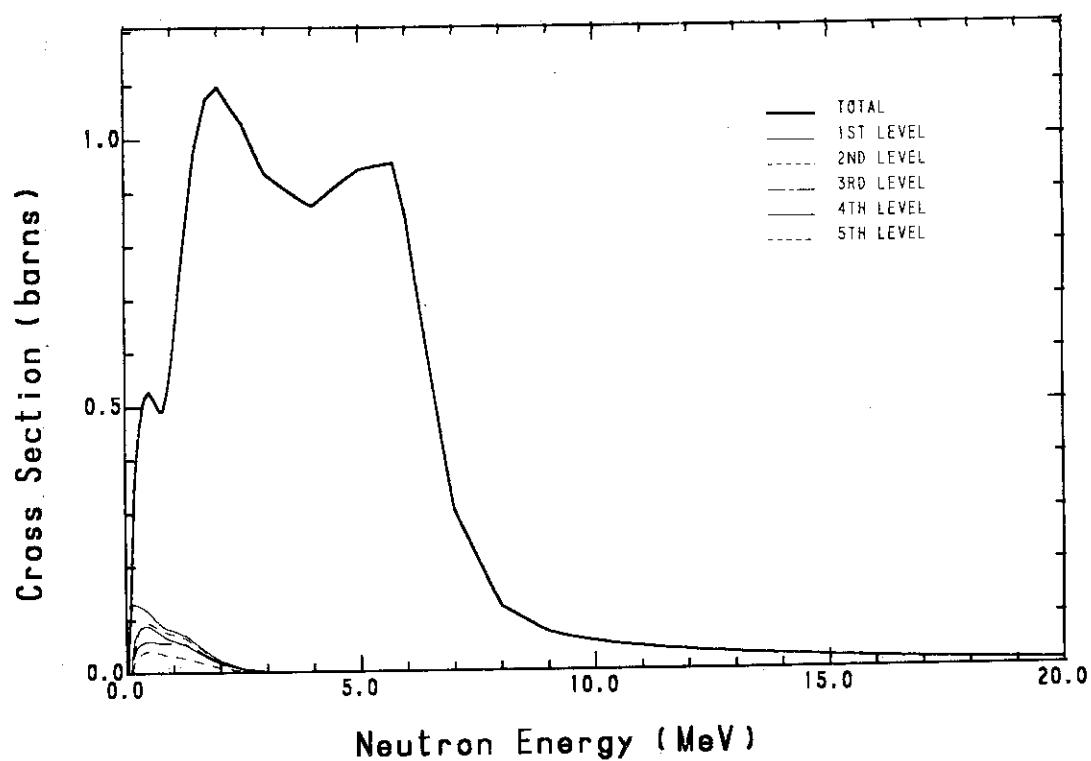
^{243}Cm
(n, f)



MAT=2962
MT = 18

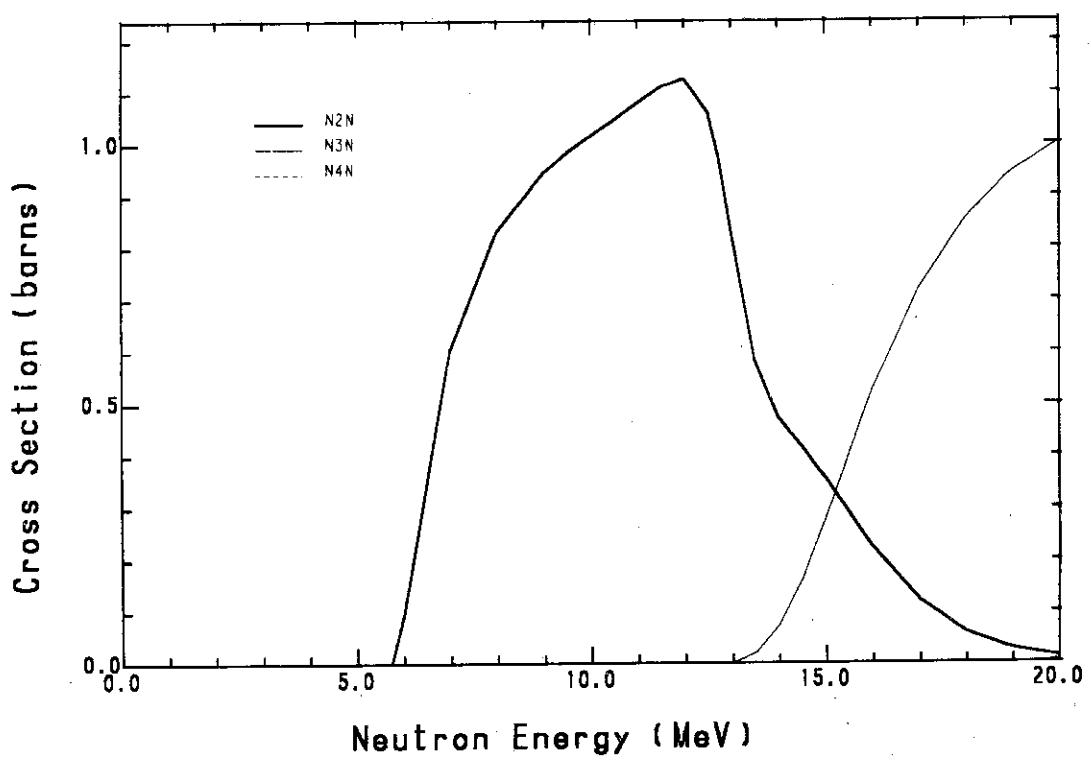
^{243}Cm
 (n, n')

MAT=2962
MT= 4
51~55

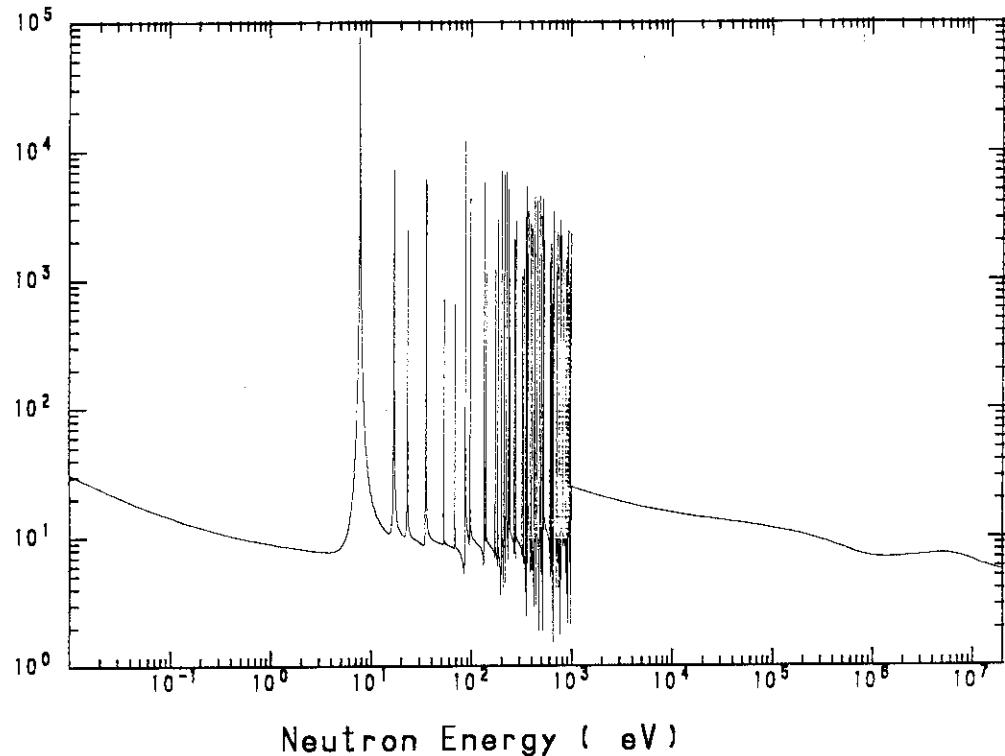


^{243}Cm
 $(n, 2n)$
 $(n, 3n)$
 $(n, 4n)$

MAT=2962
MT= 16
17
37



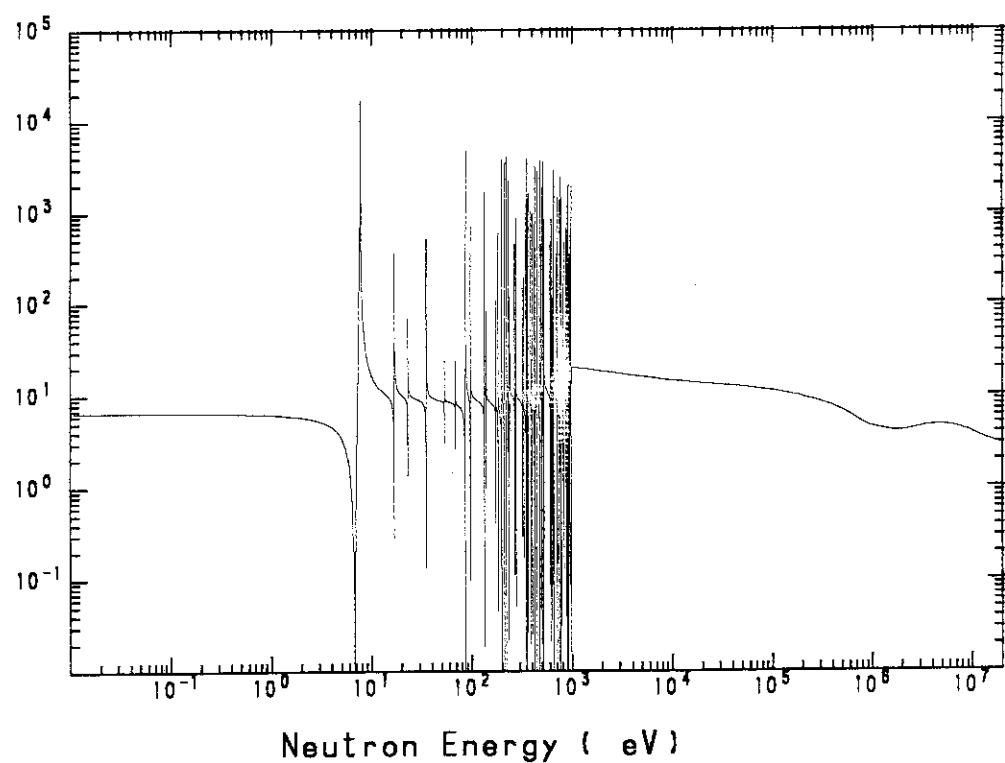
Cross Section (barns)



^{244}Cm
TOTAL

MAT=2963
MT= 1

Cross Section (barns)

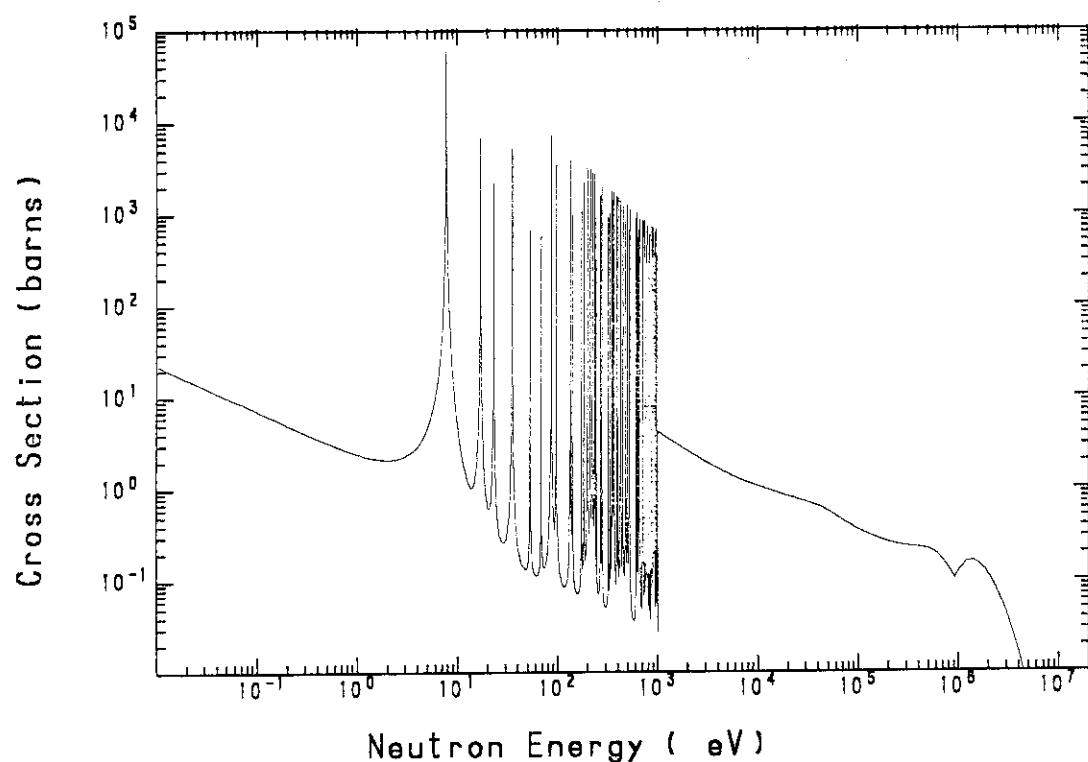


^{244}Cm
(n, n)

MAT=2963
MT= 2

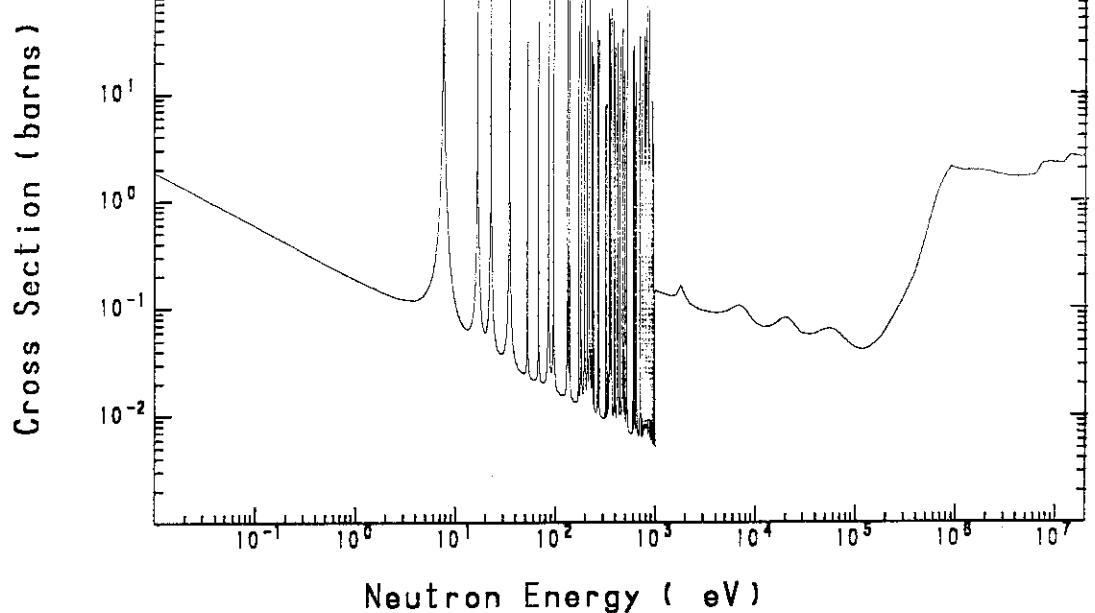
^{244}Cm
(n, γ)

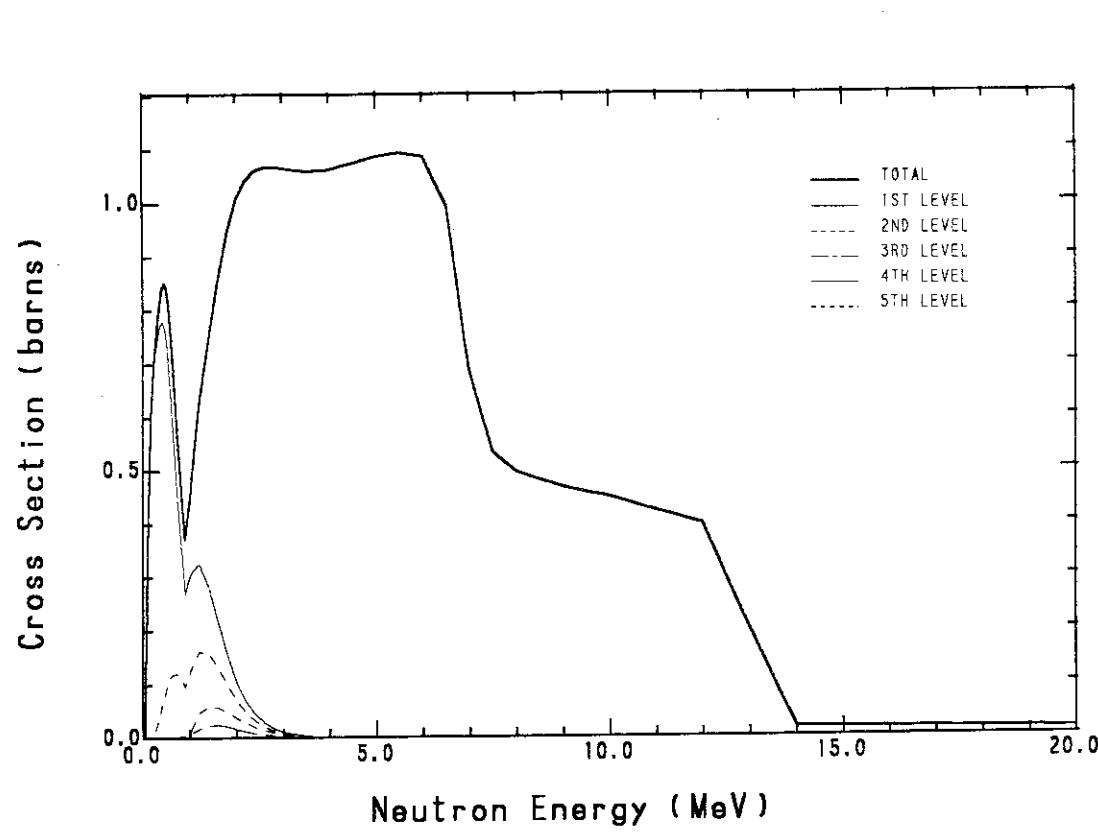
MAT=2963
MT= 102



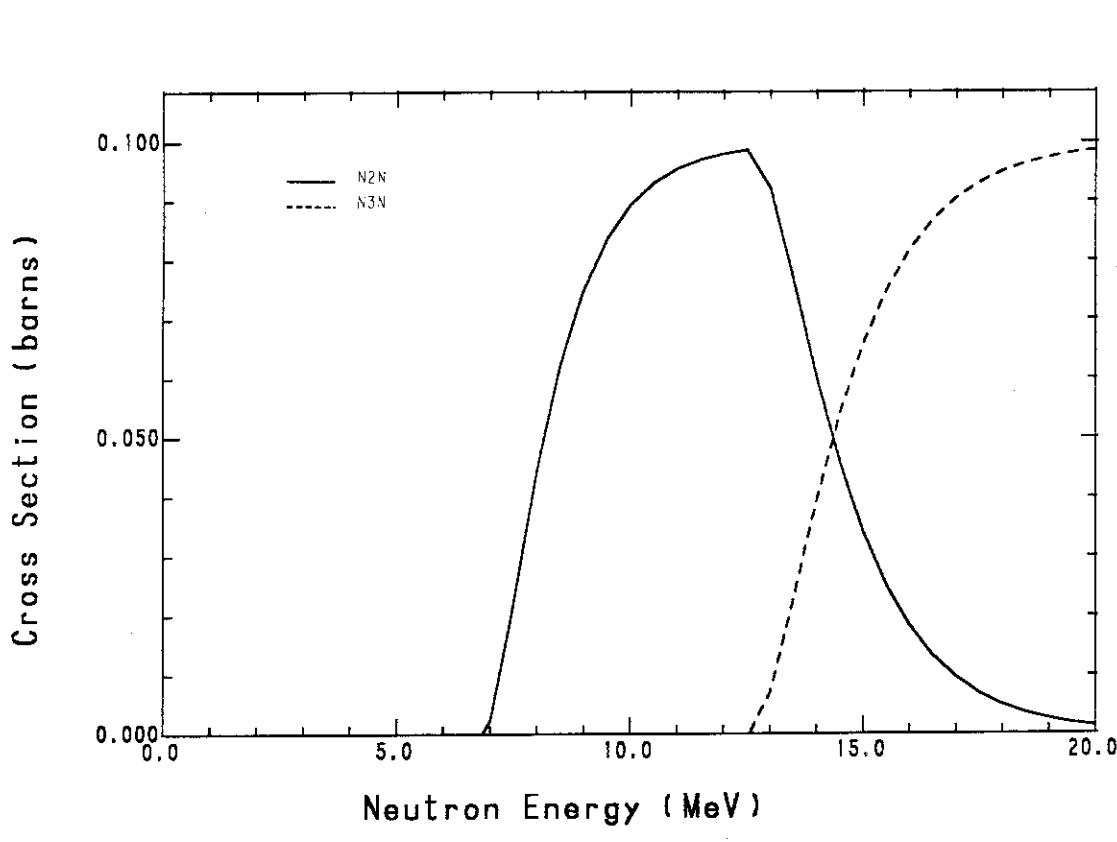
^{244}Cm
(n, f)

MAT=2963
MT= 18





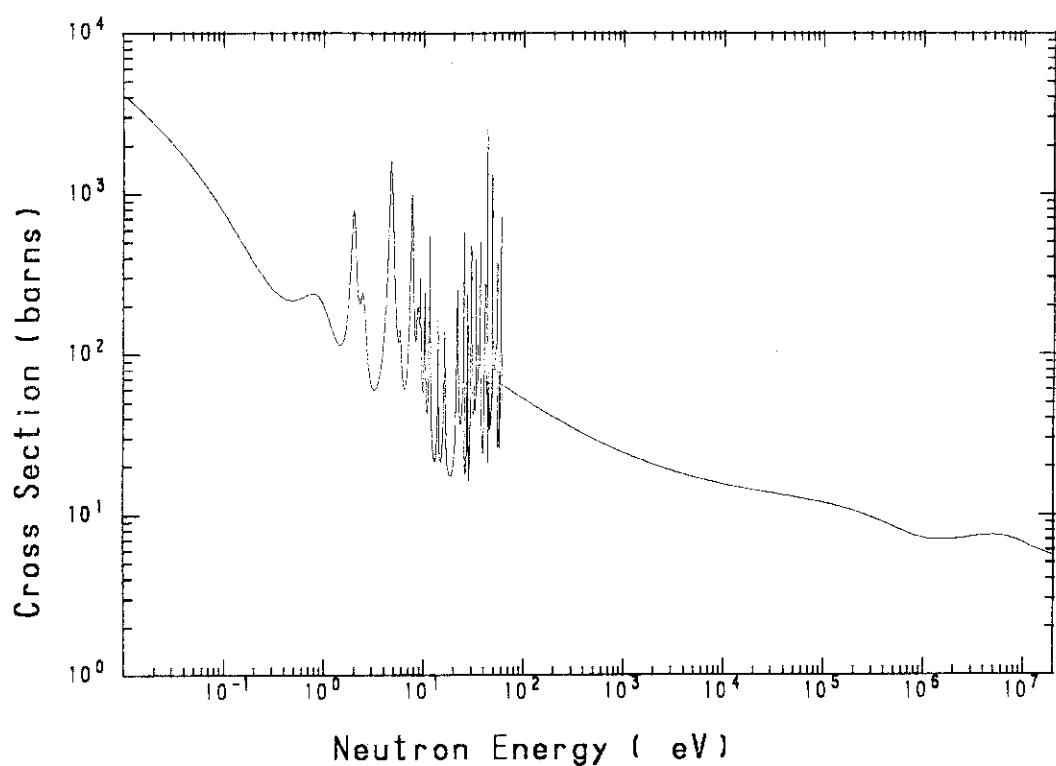
MAT=2963
MT= 4
51~55



MAT=2963
MT= 16
17

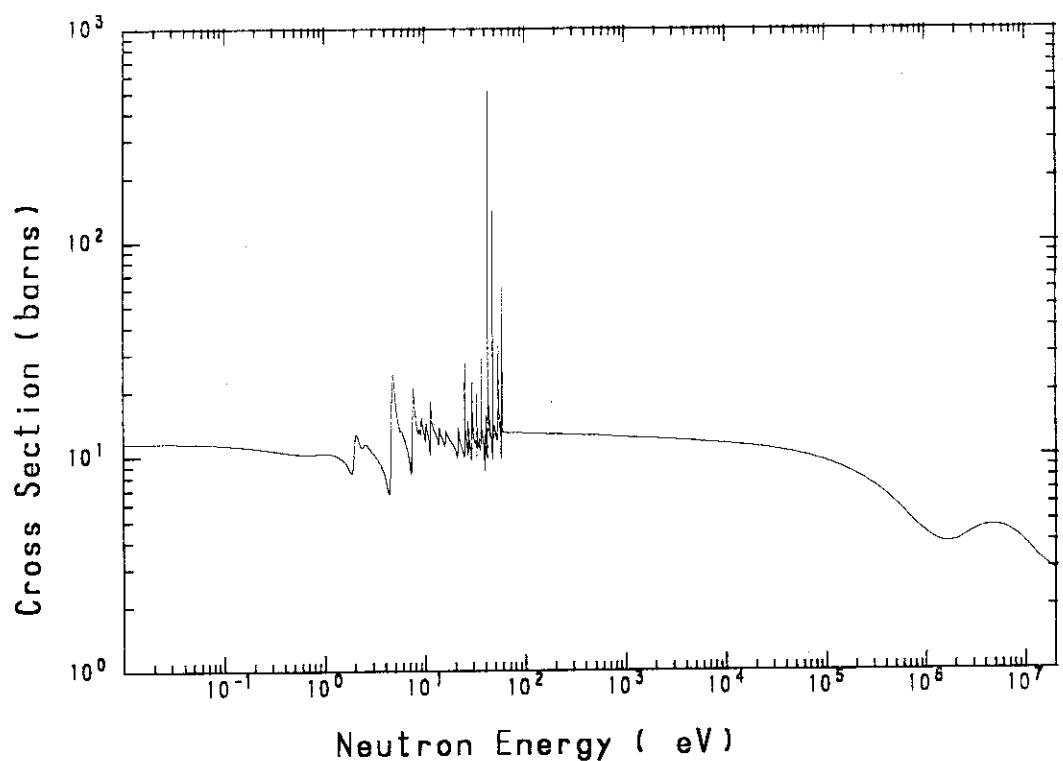
^{245}Cm
TOTAL

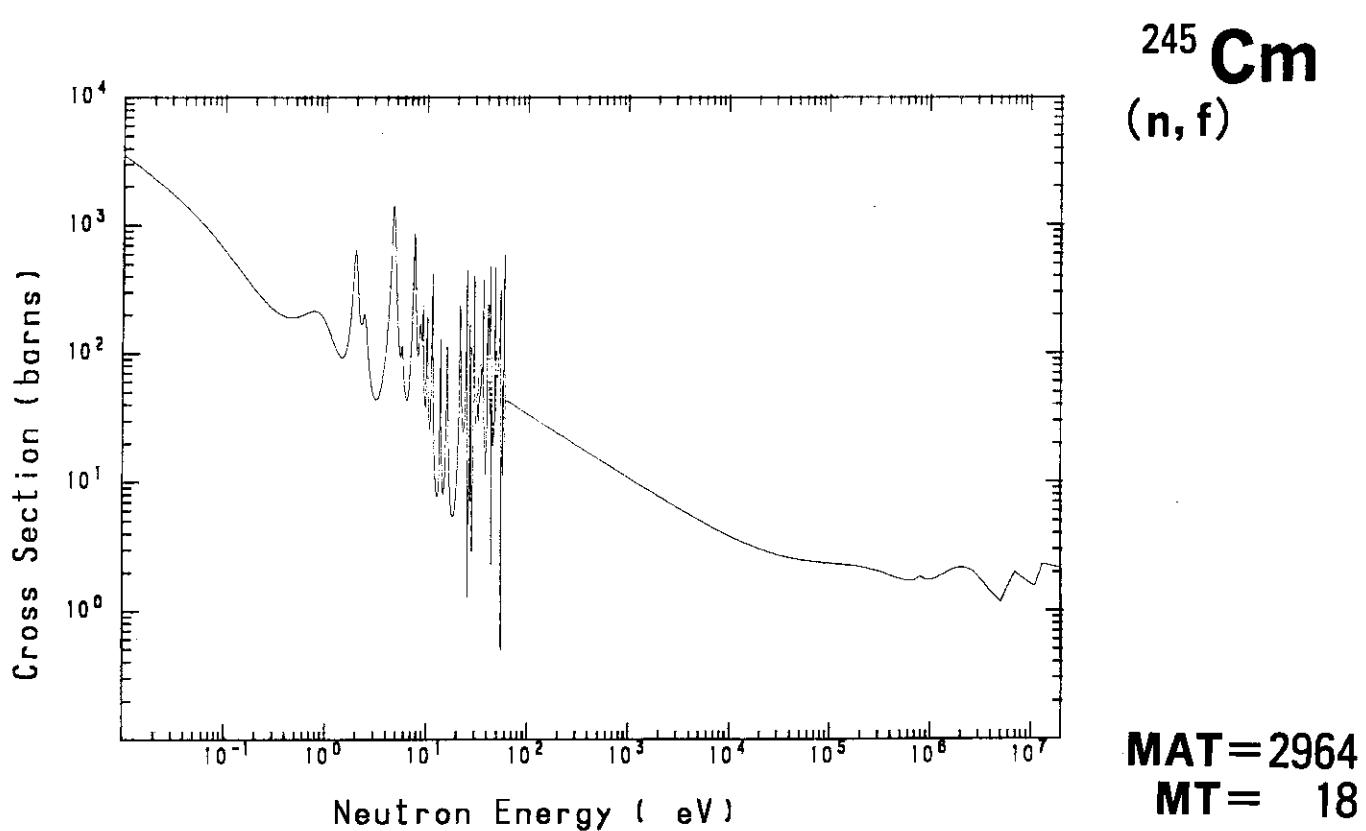
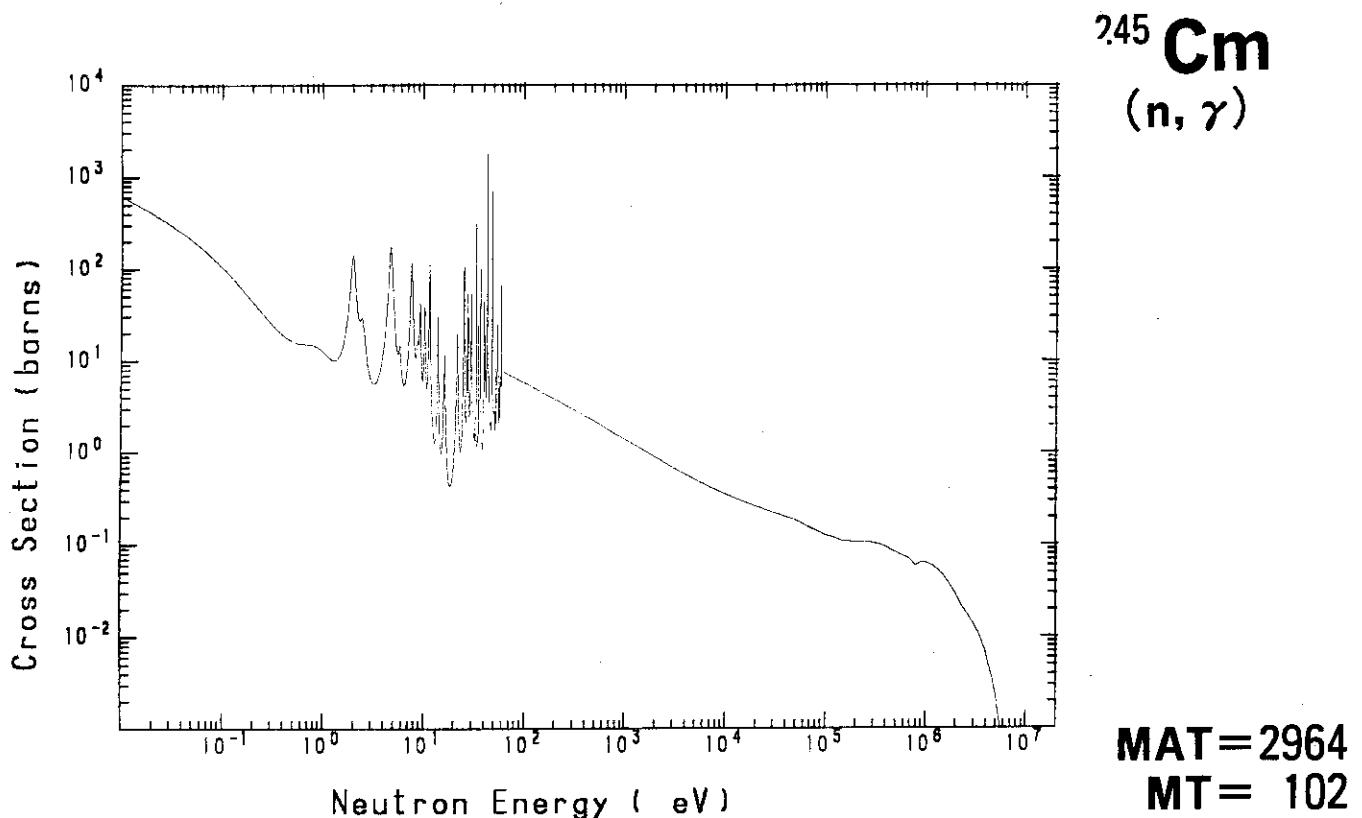
MAT=2964
MT= 1



^{245}Cm
(n, n)

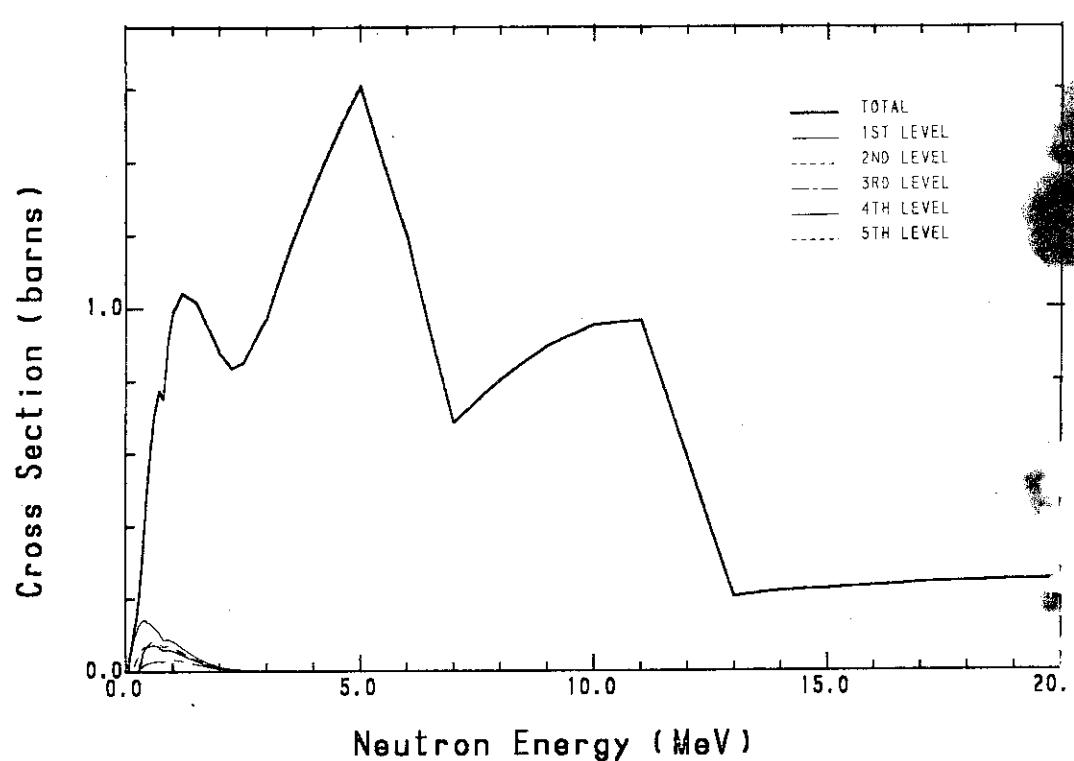
MAT=2964
MT= 2





^{245}Cm
(n, n')

MAT=2964
MT= 4
51~55



^{245}Cm
($n, 2n$)
($n, 3n$)

MAT=2964
MT= 16
17

