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EVALUATION OF RESONANCE PARAMETERS OF
Mo, Tc, Te, Ba, La, Ce, Pr, Nd, Pm, Sm
AND Eu ISOTOPES FOR JENDL-2 FISSION PRODUCT FILE

March 1986

Yasuyuki KIKUCHI, Orihiko TOGAWA and Tsuneo NAKAGAWA

日本原子力研究所
Japan Atomic Energy Research Institute

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Evaluation of Resonance Parameters of Mo, Tc, Te, Ba, La, Ce, Pr,
Nd, Pm, Sm and Eu Isotopes for JENDL-2 Fission Product File

Yasuyuki KIKUCHI⁺, Orihiko TOGAWA⁺⁺ and Tsuneo NAKAGAWA

Department of Physics Tokai Research Establishment
Japan Atomic Energy Research Institute
Tokai-mura, Naka-gun, Ibaraki-ken

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The resonance parameters of 39 fission product nuclides have been evaluated. The present work is a part of the evaluation of 100 fission product nuclei for JENDL-2 by Japanese Nuclear Data Committee. All the available experimental data were collected, stored in REPSTOR system and compared with one another. The evaluation was made on the basis of the experimental data. The precise description of the evaluation is given in this report. The presently evaluated resonance parameters are tabulated in Appendix with the experimental data.

KEYWORDS: Evaluation, Resonance Parameters, Fission Product, JENDL-2,
REPSTOR, Multi-level Breit-Wigner Formula

+ Present address: Office of Planning, JAERI

++ Summer visiting student from Faculty of Engineering, Hokkaido Univ.
Present address: Department of Environmental safety Research,
JAERI

JENDL-2核分裂生成物核データファイル用の
Mo, Tc, Te, Ba, La, Ce, Pr, Nd, Pm, Sm, Eu
同位体の共鳴パラメータ評価

日本原子力研究所東海研究所物理部
菊池康之⁺・外川織彦⁺⁺・中川庸雄

(1986年1月31日受理)

39の核分裂生成物核種の共鳴パラメータの評価を行った。この作業は、シグマ研究委員会によるJENDL-2用の100核種の核分裂生成物核データ評価の一環として行われた。利用可能な実験データを集め、REPSTORシステムに収納し、相互比較を行う事により評価を行った。本報告書には評価の詳細を記述した。評価済共鳴パラメータは、実験データと共に付録にテーブル化してある。

東海研究所：茨城県那珂郡東海村白方字白根2の4

+ 現所属：企画室

++ 北海道大学工学部よりの夏季実習生

現所属：日本原子力研究所東海研究所環境安全研究部

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1. Introduction

Neutron Nuclear Data of 100 fission product nuclei* were evaluated for the second version of Japanese Evaluated Nuclear Data Library (JENDL-2) by Working Group on Fission Product Nuclear Data in Japanese Nuclear Data Committee. As a part of this work, the resonance parameters were evaluated by a subworking group on the basis of the recently measured data.

In this report, the evaluation work is described for ^{92}Mo , ^{94}Mo , ^{95}Mo , ^{96}Mo , ^{97}Mo , ^{98}Mo , ^{100}Mo , ^{99}Tc , ^{128}Te , ^{134}Ba , ^{135}Ba , ^{136}Ba , ^{137}Ba , ^{138}Ba , ^{139}La , ^{140}Ce , ^{142}Ce , ^{144}Ce , ^{141}Pr , ^{142}Nd , ^{143}Nd , ^{144}Nd , ^{145}Nd , ^{146}Nd , ^{148}Nd , ^{150}Nd , ^{147}Pm , ^{147}Sm , ^{148}Sm , ^{149}Sm , ^{150}Sm , ^{151}Sm , ^{152}Sm , ^{154}Sm , ^{151}Eu , ^{152}Eu , ^{153}Eu , ^{154}Eu and ^{155}Eu . The general evaluation procedure is described in Chapter 2. Chapter 3 is devoted to describe the evaluation for each nuclide. The summary of the present results are given in Chapter 4 as well as the calculated thermal cross sections and resonance integrals. The presently evaluated parameters are given in Appendix with the measured data.

* Some stable non-fission-product nuclei in this mass region are included.

2. General Evaluation Procedure

The measured data were surveyed through CINDA and EXFOR. The resonance parameters reported by experimenters were stored in REPSTOR (Resonance Parameter Storage and Retrieve) system¹⁾. If the data were found to be stored in EXFOR, they were transferred semi-automatically to REPSTOR with the aid of XTOREP, ETOREP and REPIMRG codes²⁾.

The experimental resonance parameters thus collected were compared with one another. The present evaluation was made on the basis of these experimental data. The evaluation method depends on the situation of the experimental data. Hence the following is the general method and many exceptional cases occurred.

As to the energy of resonance levels, those reported in most recent measurements were generally adopted. If the orbital angular momentum l is not assigned for a level, this value was assumed by considering the value of reduced neutron width. For a level whose spin J is not assigned, $J=I$ (the spin of the target nucleus) was assumed for odd-mass nuclides and $J=1/2$ for even-even nuclides. For p-wave resonances of even-even nuclide, however, $J=3/2$ was sometimes assumed by considering the consistency among Γ_n , Γ_γ and $g\Gamma_n\Gamma_\gamma/\Gamma$.

Most of the experimental resonance parameters are categorized into the following;

- 1) Γ_n and Γ_γ obtained by the shape fitting of the transmission data,
- 2) Γ_n obtained by the area fitting of the transmission data by assuming Γ_γ , and
- 3) $g\Gamma_n\Gamma_\gamma/\Gamma$ obtained by capture measurements.

The present evaluation was made for each level according to the following criteria:

- 1) If there exist Γ_n and Γ_γ obtained by the shape fitting, these

values were generally adopted.

- 2) If Γ_n and $g\Gamma_n\Gamma_\gamma/\Gamma$ are reported, Γ_γ was deduced from these values.
- 3) If only Γ_n exists, the average value of Γ_γ was assumed.
- 4) If only $g\Gamma_n\Gamma_\gamma/\Gamma$ is reported, Γ_n was deduced by assuming the average value of Γ_γ .

For these calculations, a small code TREP²⁾ was developed.

The upper boundary of the resonance region was determined by checking the level missing with the aid of the staircase plotting of resonance levels.

Above the resolved resonance region, the unresolved resonance region was defined up to 100 keV. The unresolved resonance parameters (S_0 , S_1 , S_2 , S_γ and R) were determined by considering the consistency with the statistical model calculation above 100 keV. The unresolved resonance parameters were prepared with the ASREP³⁾ code.

3. Evaluation of Each Nuclide

The evaluation method is described in this chapter as well as the experimentally deduced parameters on which the evaluation was based. The presently evaluated parameters are compared with the experimental data in Tables of Appendix. These tables should be referred to in reading this chapter.

The experimental data are abbreviated as 76Musgrove+. This means the data measured or reported by Musgrove et al. in 1976. They are referred to References of Experimental Data.

The average values of parameters, the calculated thermal cross sections and the resonance integrals are tabulated and discussed in the next chapter. Hence minimum description is given as to numerical values in this chapter.

3.1 Molybdenum-92

Available experimental data are 68Devadeenam+, 69Shwe+, 71Mughabghab+, 71Weigmann+, 73Wasson+ and 76Musgrove+. 71Weigmann+ and 76Musgrove+ give the $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ values from the capture measurements. 73Wasson+ gives the $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ values and the reduced neutron widths up to 30 keV from the capture and transmission measurements. The evaluation was made mainly on the basis of these three data sets.

The $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ values were evaluated by averaging the values of the three sets. The neutron widths were mainly taken from 73Wasson+, and Γ_{γ} values were deduced. Above 30 keV, where no Γ_n data of 73Wasson+ exist, the Γ_n values assumed in 76Musgrove+ were taken with the deduced Γ_{γ} values. For levels where only $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ value is given, the average value of 425 meV was assumed for Γ_{γ} and Γ_n was deduced. The ℓ and J values were assigned according to assignment in these three data sets.

The upper boundary of the resolved resonance region was set at 50 keV, since no obvious level missing is observed in the staircase plotting of resonance levels.

3.2 Molybdenum-94

Available experimental data are the $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ values of 71Weigmann+ up to 5 keV and of 76Musgrove+ from 3 keV to 20 keV. As no reliable transmission data exist, 76Musgrove+ used the Γ_n data of 68Wynchank+ for natural molybdenum and deduced Γ_{γ} values.

The evaluation of $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ values was made by averaging the data of 71Weigmann+ and 76Musgrove+. For levels whose Γ_n and Γ_{γ} values were given by the experimenters, these values were adopted. For levels where only $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ value is given, the average value of 175 meV was assumed for Γ_{γ} and the Γ_n value was deduced.

The upper limit of the resolved resonance region was set at 20 keV, since no obvious level missing was observed.

3.3 Molybdenum-95

Collected experimental data are 55Harvey+, 62Jackson, 63Jackson, 67Mughabghab+, 68Coceva+, 69Julient+, 69Shwe+, 70Wetzel+ and 71Weigmann+. The maximum energy of these data is about 2 keV of 71Weigmann+. Most recent data of 76Musgrove+ gives the data only above 3 keV and there exists a gap between 2 and 3 keV. Hence 76Musgrove+ was abandoned in the present work except for the average Γ_{γ} value.

The evaluation was made mainly on the basis of the capture measurements of 71Weigmann+ by referring to the transmission measurements of 69Shwe+ sometimes. For most levels, the Γ_n value was deduced from $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ value of 71Weigmann+ by assuming the average Γ_{γ}

value of 76Musgrove+ (150 meV for s-wave and 180 meV for p-wave resonances).

The upper energy boundary was set at 2.0 keV, since no level missing is observed. A negative resonance was added at -20 eV so as to reproduce the thermal capture cross section.

3.4 Molybdenum-96

Available experimental data are 55Harvey+, 69Julient+, 69Shwet+, 71Weigmann+ and 76Musgrove+. As no transmission data exist except for the lowest two levels, 76Musgrove+ often deduces Γ_{γ} value by assuming the Γ_n value of 68Wynchank+ for natural molybdenum.

The evaluation was made on the basis of 71Weigmann+ and 76Musgrove+. The $g\Gamma_n\Gamma_{\gamma}/\Gamma$ values were obtained by averaging the data of these two sets. The Γ_n value was adopted, if this value was recommended in their report. For the other levels, the Γ_n value was deduced from $g\Gamma_n\Gamma_{\gamma}/\Gamma$ value by assuming the average Γ_{γ} value recommended in 76Musgrove+ (114 meV for s-wave and 136 meV for p-wave resonances).

The upper boundary of the resolved resonance region was set at 19 keV, since no level missing is observed.

3.5 Molybdenum-97

Collected experimental data are 55Harvey+, 68Coceva+, 69Julient+, 69Shwet+ and 71Weigmann+. The most recent capture data of 76Musgrove+ could not be taken except for the average Γ_{γ} values because of an energy gap between 1.9 and 3 keV, as is the case of ^{95}Mo .

For the lowest 2 levels, the data of 69Shwet+ were adopted. For the other levels, the $g\Gamma_n\Gamma_{\gamma}/\Gamma$ value of 71Weigmann+ was adopted. For a few levels where the Γ_n value was recommended in 71Weigmann+, this Γ_n value

was adopted and Γ_γ was deduced. For the other levels, the Γ_n value was deduced by assuming the average values of Γ_γ recommended in 76Musgrove+ (130 meV for s-wave and 150 meV for p-wave resonances).

Though 71Weigmann+ gives the parameters up to 1.94 keV, the upper boundary of the resonance region was set at 1.8 keV, above which obvious level missing is observed in the staircase plotting of the resonance levels. A negative resonance was added at -20 eV so as to reproduce the thermal capture cross section value.

3.6 Molybdenum-98

Available experimental data are 55Harvey+, 69Shwe+, 71Mughabghab+, 71Weigmann+, 76Mughabghab+, 76Chrient+ and 76Musgrove+. 76Chrient+ gives the $g_n^{(0)}$ or $g_n^{(1)}$ up to 53 keV from their transmission measurements.

In the present evaluation, the $g_n \Gamma_\gamma / \Gamma$ values were obtained by averaging the data of 71Weigmann+ and 76Musgrove+. The Γ_n values were taken from data of 76Chrient+ and the Γ_γ values were deduced. It often occurred, however, that the Γ_γ value thus deduced became negative. In such a case as well as the case of no Γ_n data, the average Γ_γ value (85 meV for s-wave and of 120 meV for p-wave resonances) was assumed and the Γ_n values was deduced.

A negative resonance was added at -980 eV so as to reproduce the thermal capture cross section. The upper boundary of the resonance region was set at 32 keV, above which obvious level missing was observed in the staircase plotting of the resonance levels.

3.7 Molybdenum-100

Experimental data are 55Harvey+, 69Shwe+, 71Weigmann+, 76Mughabghab+, 76Musgrove+ and 79Weigmann+. 79Weigmann+ gives the

neutron width from the transmission measurements and the $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ from the capture measurements, while 71Weigmann+ and 76Musgrove+ gives $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ from the capture measurements.

The $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ values were evaluated by averaging the values of the three sets. The Γ_{γ} values were mainly taken from 79Weigmann+ and the Γ_n values were deduced. It often occurred that the Γ_{γ} value thus deduced deviated much from the average value. In such a case as well as the case of no Γ_n data, the average Γ_{γ} value of 64 meV for s-wave or of 80 meV for p-wave was assumed and the Γ_n value was deduced.

A negative resonance was added at -172 eV so as to reproduce the thermal capture cross section. The upper boundary of the resonance region was set at 26 keV, since no obvious level missing was observed in the staircase plotting of the levels.

3.8 Technetium-99

For the lowest two levels, there are many measurements. 70Watanabe+ and 78Fischer+ made the shape analysis. 81Fischer+ gives their final recommendation. For the first two levels, the recommended parameters of 81Fischer+ were adopted at the first stage.

Above these two levels, available data are 58Slaughter+, 70Watanabe+ (area analysis), 73Adamchuk+, 77Little+ and 82Macklin. 73Adamchuk+ gives $\Gamma_n^{(0)}$ and Γ_{γ} for large levels and gives $\Gamma_n^{(0)}$ for smaller levels, while 77Little+ give the $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ values. It was found, however, that 73Adamchuk+ and 77Little+ were inconsistent with each other. Hence the $\Gamma_n^{(0)}$ value of 73Adamchuk+ was taken with their Γ_{γ} values for large (possibly s-wave) resonance levels. On the other hand, the $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ value of 77Little+ was adopted with a slight modification within the quoted error for smaller (possibly p-wave) resonance levels,

and Γ_n value was deduced by assuming the average Γ_γ value of 170 meV.

Above 1.5 keV, 77Little+ gives only the resonance energies. The Γ_n value was generated with the random number method by the STAT⁴⁾ code.

Some levels seem to be missing in 77Little+ above 1 keV. The artificial levels were also generated by the STAT code by assuming the following average resonance parameters; $\langle D \rangle_s = 40$ meV, $S_0 = 1.7 \times 10^{-5}$, $S_1 = 1.112 \times 10^{-3}$ and $\Gamma_\gamma = 170$ meV. Above 2.66 keV 82Macklin gives the $g_n \Gamma_n / \Gamma_\gamma$ values up to 4.2 keV. His value was adopted and the Γ_n value was deduced by assuming $\Gamma_\gamma = 170$ meV.

The upper boundary of the resonance region was set at 4.219 keV, since no obvious level missing was observed in 82Macklin.

The resonance parameters thus obtained give the capture resonance integral of 297 barns which is fairly smaller than the values of 340 ± 20 barns recommended by Mughabghab et al.^{5)*}. In order to reproduce the recommended value, the neutron width of the first two levels were increased by adding $2 \times \Delta \Gamma_n$. This inconsistency between the differential and integral data should be further studied. It is to be noted that the thermal capture cross section is well reproduced with these modified resonance parameters.

3.9 Tellurium-128

This nuclide was added at the final stage of the evaluation for JENDL-2 FP file. Hence the evaluation was made very quickly by referring to the recommendation by Mughabghab et al.⁵⁾ (BNL-325, 4th edition).

Available experimental data are the neutron widths of 70Tellier+ up

* Ref.(5) will be cited as the 4th edition of BNL-325 hereafter.

to 22 keV and $g_n \Gamma_n / \Gamma_\gamma$ of 73Browne+ up to 7 keV. The Γ_n value of 70Tellier+ was adopted and the Γ_γ value was derived from $g_n \Gamma_n / \Gamma_\gamma$. For the levels above 7 keV, the average Γ_γ value of 48 ± 25 meV was assumed. A negative resonance was added at -600 eV so as to reproduce the thermal capture cross section.

The upper boundary of the resonance region was set at 21.4 keV, as no obvious level missing is observed.

3.10 Barium-134

69Alves+ and 71Van-de-Vyver+ give the Γ_n values for the resonances up to 1.9 keV from their transmission measurements. 76Musgrove+ gives the Γ_n and $g_n \Gamma_n / \Gamma_\gamma$ values for the resonances from 3 keV to 10.6 keV from their capture measurements.

For the resonances below 1.9 keV, the Γ_n value was determined by averaging the data of 69Alves+ and 71Van-de-Vyver+. As to the Γ_γ value, the average value of 120 meV deduced by 76Musgrove+ was adopted except for 101.8 eV level where the total width of 69Alves+ deduced by shape analysis was considered. From 3 keV to 6 keV, 76Musgrove+ gives the Γ_n and $g_n \Gamma_n / \Gamma_\gamma$ values and the Γ_γ value was deduced. Above 6 keV, only the $g_n \Gamma_n / \Gamma_\gamma$ value is given and the Γ_n value was deduced by assuming the Γ_γ value of 120 meV.

From 1.6 keV to 3 keV, 11 artificial resonances were generated with the STAT code⁴⁾ by assuming the average resonance parameters deduced by 76Musgrove+; $\langle D \rangle = 127$ eV, $S_0 = 0.85 \times 10^{-4}$, $S_1 = 0.8 \times 10^{-4}$, and $\Gamma_\gamma = 120$ meV.

A negative resonance was added at -104 eV so as to reproduce the thermal capture cross section. The upper boundary of the resonance region was set at 10.575 keV, since no obvious level missing is observed.

3.11 Barium-135

The present evaluation was based on 69Alves+ and 71Van-de-Vyver+ below 1.4 keV and on 74Musgrove+ between 3 and 6 keV. 74Berman+ gives only the resonance energies up to 2.3 keV and these data were taken into account in generating artificial levels between 1.4 keV and 3 keV.

For the resonances below 1.4 keV, the Γ_n value was obtained by averaging the data of 69Alves+ and 71Van-de-Vyver+. The Γ_γ value was obtained by subtracting Γ_n from the total width of 69Alves+ deduced from the shape analysis, or assumed to be the average value of 150 meV according to 74Musgrove+. The J-value was assigned according to 69Alves+. Above 3 keV, the Γ_n value was deduced from the $g\Gamma_n\Gamma_\gamma/\Gamma$ value of 74Musgrove+ by assuming mainly the average Γ_γ value of 150 meV. The ℓ and J were assigned according to 74Musgrove+.

Below 3 keV, many artificial levels were generated with the STAT code⁴⁾ by assuming the average parameters of 74Musgrove+; $\langle D \rangle = 39.3$ eV $S_0 = 0.8 \times 10^{-4}$, $S_1 = 0.48 \times 10^{-4}$ and $\Gamma_\gamma = 150$ meV.

A negative resonance was added at -51 eV so as to reproduce the thermal capture cross section. The upper boundary of resonance region was set at 5.96 keV, since no level missing was observed.

3.12 Barium-136

The Γ_n value for 3 levels below 1.6 keV was evaluated by averaging the data of 69Alves+ and 71Van-de-Vyver+. Above 3 keV, the Γ_n and Γ_γ values were taken from 76Musgrove+. For the levels where only the $g\Gamma_n\Gamma_\gamma/\Gamma$ was given, the Γ_n value was deduced by assuming the average Γ_γ value of 125 meV.

Below 3 keV, 6 artificial levels were generated with the STAT code⁴⁾ by assuming the average parameters of 74Musgrove+; $\langle D \rangle = 225$ eV, $S_0 =$

0.8×10^{-4} , $S_1 = 0.8 \times 10^{-4}$ and $\Gamma_\gamma = 125$ meV.

A negative resonance was added at -250 eV so as to reproduce the thermal capture cross section. The upper boundary of the resonance region was set at 34.5 keV, since no level missing is observed.

3.13 Barium-137

The present evaluation was made on the basis of 69Alves+ and 71Van-de-Vyver+ up to 1.74 keV and 76Musgrove+ above 3 keV.

The Γ_n value below 1.7 keV was evaluated by averaging the data of 69Alves+ and 71Van-de-Vyver+. The Γ_γ value was obtained by subtracting Γ_n from the total width of 69Alves+ deduced with shape analysis for the levels of 420 and 578 eV. For the other levels the average Γ_γ value was applied; 80 meV for s-wave and 68 meV for p-wave ones. The J-assignment was made according to 69Alves+.

Above 3 keV, 76Musgrove+ gives $g\Gamma_n\Gamma_\gamma/\Gamma$ and Γ_n , and the Γ_γ value was deduced. For levels where only $g\Gamma_n\Gamma_\gamma/\Gamma$ is given by 76Musgrove+, the Γ_n was deduced by assuming the average Γ_γ value. The ℓ - and J-assignment was according to 76Musgrove+.

Many artificial levels were generated with the STAT code⁴⁾ by assuming the average parameters deduced by 76Musgrove+; $\langle D \rangle = 380$ eV, $S_0 = 0.57 \times 10^{-4}$, $S_1 = 0.45 \times 10^{-4}$, $\Gamma_\gamma^s = 80$ meV and $\Gamma_\gamma^p = 68$ meV.

A negative resonance was added at -26 eV so as to reproduce the thermal capture cross section. The upper boundary of the resonance region was set at 11.9 keV, since no level missing was observed.

3.14 Barium-138

Two measurements were reported. 61Bilpuch+ gives the Γ_n value up to 192 keV from their transmission measurements. 79Musgrove+ gives the

$g\Gamma_n\Gamma_\gamma/\Gamma$ value up to 92 keV from their capture measurements.

The present evaluation was mainly on the basis of 79Musgrove+, because much more resonances were reported. The Γ_n value below 100 keV was taken from 79Musgrove+ by considering the values of 61Bilpuch+ supplementally and the Γ_γ value was deduced. For the levels where only the $g\Gamma_n\Gamma_\gamma/\Gamma$ value was given, the Γ_n value was deduced by assuming the average Γ_γ value deduced by 79Musgrove+; 55 ± 20 meV for s-wave resonances and 45 ± 20 meV for p-wave ones.

Above 100 keV, the Γ_n value of 61Bilpuch+ was adopted. As to the Γ_γ value, higher values than 55 meV often appear in the high energy region ($E > 50$ keV). Hence the average value of 95 meV was adopted.

At first a negative resonance was added at -0.622 keV so as to reproduce the thermal capture cross section. It was found, however, that a strong non- $1/v$ shape appeared in the thermal capture cross section with this negative resonance. Hence the negative resonance was moved to -6.22 keV by assuming very large values of Γ_n and Γ_γ .

Some levels seem to be missing above 100 keV from the staircase plotting of resonance levels. Hence the upper boundary of the resolved resonance region was set at 100 keV. Consequently, no unresolved resonance parameters were given.

3.15 Lanthanum-139

The evaluation was made on the basis of the transmission data of 67Shwe+, 69Morgenstern+ and 76Hacken+ and of the capture data of 77Musgrove+ and 83Nakajima+.

For the first level at 0.734 eV, the parameters of 67Shwe+ were adopted. For the other levels, the Γ_n value was mainly taken from the data of 76Hacken+ by considering the data of 67Shwe+ and 69Morgenstern+

supplementally. The $\Gamma_n \Gamma_\gamma / \Gamma$ value was taken from 77Musgrove+ and 83Nakajima+. The Γ_γ value was deduced from $g_n \Gamma_n \Gamma_\gamma / \Gamma$ and Γ_n . For levels where only $g_n \Gamma_n \Gamma_\gamma / \Gamma$ is known, the Γ_n value was deduced by assuming the average Γ_γ value of 30 ± 16 meV. A doublet negative resonances was added at -110 and -110.1 eV so as to reproduce the thermal capture cross section.

Some p-wave resonance levels seem to be missing above 15 keV from the staircase plotting of the resonance levels, while no missing is observed up to 25 keV for s-wave resonances. The contribution of the missing p-wave resonances was calculated with the strength function model by using the ASREP code³⁾, and was given as the background cross section. Thus the upper boundary of the resolved resonance region was set at 25.86 keV.

3.16 Cerium-140

The evaluation was made on the basis of the transmission data of 74Hacken+ and 78Camarda and of the capture data of 79Musgrove+. 78Camarda gives the Γ_n value from 20 keV to 240 keV, while 79Musgrove+ gives the $g_n \Gamma_n \Gamma_\gamma / \Gamma$ up to 63 keV. Comparing the resonance levels reported in 78Camarda with those in 79Musgrove+, considerable number of small resonances are missing in 78Camarda.

The Γ_n value was obtained by averaging the parameters of 74Hacken+ and 78Camarda, and the Γ_γ value was deduced from the $g_n \Gamma_n \Gamma_\gamma / \Gamma$ value. For many levels where only $g_n \Gamma_n \Gamma_\gamma / \Gamma$ is known, the Γ_n value was deduced by assuming the average Γ_γ value; 34 ± 29 meV for s-wave resonances and 29 ± 8 meV for p-wave ones. For levels above 66 keV, the average Γ_γ value was also applied. The ℓ -value was assigned according to 78Camarda and 79Musgrove+. For all the small levels where only the data of

⁷⁹Musgrove⁺ were reported, the l -value was assigned as 1. A negative resonance was added at -0.064 keV so as to reproduce the thermal cross section.

Considerable small resonances are expected to be missing in the energy region above 63 keV. The contribution of the missing level was calculated with the strength function model by using the ASREP code³⁾, and was corrected as the background cross section. Thus the upper boundary of the resolved resonance region was set at 200 keV. Consequently no unresolved resonance parameters are given.

3.17 Cerium-142

⁶⁹Vertebny⁺ gives the energies of 1.29, 1.64, 2.74 and 4.38 keV and the Γ_n value for 1.29 keV level. BNL-325, 4th Edition estimated the Γ_n value from ⁵⁹Newson⁺ for 1.64 and 2.74 keV levels.

The recommendation of BNL-325, 4th Edition was adopted in the present work. For 4.38 keV level, the Γ_n value was obtained by averaging the Γ_n values of the other levels. A negative resonance recommended by BNL-325, 4th Edition was also adopted.

The upper boundary of the resolved resonance region was set at 3.56 keV; i.e. at the middle point between 2.74 and 4.38 keV, considering the uncertainty of Γ_n for 4.38 keV level.

3.18 Cerium-144

No experimental resonance parameters have so far been reported. The $1/v$ shape which gives 1.0 ± 0.1 barns at 0.0253 eV was assumed for the capture cross section up to a connecting energy to the unresolved resonance region. The connecting energy was determined so that the calculated capture resonance integral might be 2.6 ± 0.3 barns recommended in BNL-325, 4th edition.

3.19 Praseodymium-141

The evaluation was made on the basis of the transmission measurements of 68Wynchank+ and 69Morgenstern+ and of the capture measurements of 79Taylor+. 79Taylor+ gives the $g_n \Gamma_\gamma / \Gamma$ value from 2.6 keV to 13.3 keV, and gives the Γ_n value for some levels from the shape fit.

The Γ_n value was determined by averaging the data of 68Wynchank+ and of 69Morgenstern+. For the levels where 79Taylor+ gives the Γ_n value from the shape fit, this value was adopted. The Γ_γ value was generally deduced from $g_n \Gamma_\gamma / \Gamma$ and Γ_n . If there is no Γ_n data, the average value of 84 ± 24 meV was assumed for Γ_γ . The J-value was assigned according to 68Wynchank+, 69Morgenstern+ and 69Mughabghab+. The ℓ -value was assigned by considering the Γ_n value.

A negative resonance was added at -32 eV so as to reproduce the thermal capture cross section. The upper boundary of the resolved resonance region was set at 13.2 keV, as no obvious level missing is observed from the staircase plotting of the resonance levels.

3.20 Neodymium-142

Available experimental data are 68Karzhavina+, 71Tellier and 77Musgrove+. 71Tellier gives the neutron width up to 31 keV from the transmission measurements. 77Musgrove+ gives $g_n \Gamma_\gamma / \Gamma$ values from the capture measurements from 3 keV to 32 keV. Much more levels are reported in 77Musgrove+ than in 71Tellier. Considering the difference of experimental condition, we generally assumed that the levels reported in 71Tellier were s-wave resonances and that the levels reported only in 77Musgrove+ were p-wave ones.

There exist systematic discrepancies concerning the resonance

energies between 71Tellier and 77Musgrove+. The energies of 71Tellier were adopted in the present work. For the levels reported only in 77Musgrove+ the energy was calibrated by considering the systematic discrepancies as seen in Fig.1.

The Γ_n value was taken from 71Tellier. For the levels not reported in 71Tellier, the Γ_n value was obtained from $g_n \Gamma_n \Gamma_\gamma / \Gamma$ by assuming the average Γ_γ value obtained in 77Musgrove+; 78 meV for s-wave resonances and 46 meV for p-wave ones.

A negative resonance was added at -20 eV so as to reproduce the thermal cross sections recommended by Fedorova et al.⁶⁾.

A staircase plotting of resonance levels suggests that some levels are missing above 26 keV. The upper boundary of the resolved resonance region was set at 26 keV.

3.21 Neodymium-143

Experimental data are numerous for this nuclide. The evaluation was made mainly on the basis of 71Tellier, 71Rohr+ and 77Musgrove+. 71Tellier gives the neutron width for levels up to 5.5 keV from the transmission measurements. 71Rohr+ gives $g_n \Gamma_n \Gamma_\gamma / \Gamma$ for levels up to 2 keV and 77Musgrove+ gives also $g_n \Gamma_n \Gamma_\gamma / \Gamma$ from 2.5 keV to 5 keV.

Considering the difference between transmission and capture measurements, we generally assumed that the levels reported in 71Tellier were s-wave resonances and those not found in 71Tellier were p-wave ones.

As to the resonance energy, the values of 71Tellier were adopted. For the levels not reported in 71Tellier, the energies of 71Rohr+ or 77Musgrove+ were adopted after calibration by taking account of the systematic discrepancies from the value of 71Tellier. The J-value was

assigned according to 71Cauvin⁺ and 71Rohr⁺.

The Γ_n value was taken from 71Tellier and the Γ_γ value was derived from $g\Gamma_n\Gamma_\gamma/\Gamma$ of 71Rohr⁺ below 2 keV and of 77Musgrove⁺ above 2.5 keV. For levels not reported in 71Tellier, the Γ_n value was derived from $g\Gamma_n\Gamma_\gamma/\Gamma$ by assuming the average Γ_γ value of 77 meV for s-wave resonances and of 85 meV for p-wave ones.

A negative resonance was added at -6 eV so as to reproduce the thermal cross sections recommended by Fedorova et al.⁶⁾.

The upper boundary of the resonance region was set at 5 keV, since no obvious level missing is observed.

3.22 Neodymium-144

Available experimental data are 68Karzhavina⁺, 69Alves⁺, 71Tellier and 77Musgrove⁺. 71Tellier gives the neutron width for levels up to 19.4 keV. 77Musgrove⁺ gives $g\Gamma_n\Gamma_\gamma/\Gamma$ value from 2.7 keV to 11.7 keV.

Considering the difference of the experimental condition between 71Tellier (transmission) and 77Musgrove⁺ (capture), we generally assumed that the levels reported in 71Tellier were s-wave resonances and those not found in 71Tellier were p-wave ones.

The resonance energy was taken from 71Tellier. For levels not reported in 71Tellier, the energy of 77Musgrove⁺ was adopted after calibrating the systematic discrepancies from the value of 71Tellier.

The Γ_n value was taken from 71Tellier, and the Γ_γ value was deduced from $g\Gamma_n\Gamma_\gamma/\Gamma$ value of 77Musgrove⁺. For levels not reported in 71Tellier, the Γ_n value was deduced from $g\Gamma_n\Gamma_\gamma/\Gamma$ value by assuming the average Γ_γ value of 47 meV for s-wave resonances and of 41 meV for p-wave ones. For the lowest two levels, the Γ_γ value of 68Karzhavina⁺ was adopted.

A negative resonance was added at -76 eV so as to reproduce the thermal cross sections recommended by Fedorova et al.⁶⁾

Some p-wave resonance levels must be missing in the energy region above 12 keV where no capture data of 77Musgrove+ exist. The upper boundary of resonance region was thus set at 12 keV.

3.23 Neodymium-145

The evaluation was made mainly on the basis of 71Tellier, 71Rohr+ and 77Musgrove+. 71Tellier gives the neutron width for levels up to 4.6 keV from the transmission measurements. As to the capture data, 71Rohr+ gives $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ for levels up to 1.5 keV, and 77Musgrove+ also gives $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ from 2.5 keV to 4 keV.

Considering the different experimental condition between transmission and capture measurements, we assumed that the levels reported in 71Tellier were s-wave resonances and those not found in 71Tellier were p-wave ones.

The resonance energy was taken from 71Tellier. For the levels not reported in 71Tellier, the energies of 71Rohr+ or 77Musgrove+ were adopted after calibrating the systematic discrepancies from the values of 71Tellier. The J-value was assigned according to 71Cauvin+ and 71Rohr+.

The Γ_n value was taken from 71Tellier, and the Γ_{γ} value was deduced from $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ of 71Rohr+ or 77Musgrove+. For levels whose $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ values were not given, the average Γ_{γ} value of 87 meV was assumed. For levels not reported in 71Tellier, the Γ_n value was deduced from the $g_n^{\Gamma} \Gamma_{\gamma} / \Gamma$ and the average value of Γ_{γ} .

A negative resonance was added at -28 eV so as to reproduce the thermal cross sections recommended by Fedorova et al.⁶⁾.

Some levels must be missing in the energy region above 4 keV where no capture data of 77Musgrove+ exist. Hence the upper boundary of the resolved resonance region was set at 4 keV.

3.24 Neodymium-146

Available experimental data are 68Karzhavina+, 71Tellier and 77Musgrove+. 71Tellier gives the neutron width for levels up 17 keV from the transmission measurements. 77Musgrove+ gives $g_n \Gamma_n / \Gamma_\gamma$ for levels from 2.5 keV to 10 keV.

Considering the difference between transmission and capture measurements, we generally assumed that levels reported in 71Tellier were s-wave resonances and those not found in 71Tellier were p-wave ones.

The neutron energy was taken from 71Tellier. The energies reported in 77Musgrove+ were calibrated by taking account of their systematic discrepancies from those of 71Tellier.

The Γ_n value was taken from 71Tellier and the Γ_γ value was deduced from the $g_n \Gamma_n / \Gamma_\gamma$ value. For levels below 2.5 keV, the average Γ_γ value of 51 meV and 40 meV was assumed for s- and p-wave resonances, respectively. For the levels not reported in 71Tellier, the Γ_n value was deduced from the $g_n \Gamma_n / \Gamma_\gamma$ value and the average value of Γ_γ .

A negative resonance was added at -200 eV so as to reproduce the thermal cross sections recommended by Fedorova et al.⁶⁾.

Some p-wave resonance levels must be missing in the energy region above 10 keV where no capture data exist. Hence the upper boundary of the resonance region was set at 10 keV.

3.25 Neodymium-148

The evaluation was made mainly on the basis of 71Tellier and 77Musgrove+ with the same manner as used for ^{142}Nd , ^{144}Nd and ^{146}Nd . 71Tellier gives the neutron width up to 12 keV from the transmission measurements. 77Musgrove+ gives $g_n \Gamma_n \Gamma_\gamma / \Gamma$ from 2.7 keV to 8.7 keV from the capture measurements.

Considering the difference between transmission and capture measurements, we assumed that the levels reported in 71Tellier were s-wave resonances and those not found in 71Tellier were p-wave ones.

The resonance energy was taken from 71Tellier. For levels not found in 71Tellier, the value of 77Musgrove+ was adopted after calibrating the systematic discrepancies from 71Tellier.

The Γ_n value was taken from 71Tellier, and the Γ_γ value was derived from $g_n \Gamma_n \Gamma_\gamma / \Gamma$. For levels below 2.5 keV, the average Γ_γ value of 46 meV and 40 meV was assumed for s- and p-wave resonances, respectively. For levels not reported in 71Tellier, the Γ_n value was deduced from $g_n \Gamma_n \Gamma_\gamma / \Gamma$ and the average Γ_γ value.

A negative resonance was added at -400 eV so as to reproduce the thermal cross sections recommended by Fedorova et al.⁶⁾

Some p-wave resonances must be missing in the energy above 8.7 keV where no capture data are reported. The upper boundary of the resonance region was set at 8 keV.

3.26 Neodymium-150

The $g_n \Gamma_n \Gamma_\gamma / \Gamma$ of 77Musgrove+ is not available for this nuclides. Hence evaluation was made mainly on the basis of 71Tellier which gives the neutron width for levels up to 13.8 keV.

The Γ_n value was taken from 71Tellier. The Γ_γ value was taken from

BNL-325, 3rd edit.^{7)*} and the average value of 70 meV was assumed for most of levels. All the levels reported in 71Tellier were assumed as s-wave resonances. A negative resonance was added at -10 eV so as to reproduce the thermal cross sections recommended by Fedorova et al.⁶⁾.

Considering the number of levels reported in 71Tellier and 77Musgrove+ in other Nd-isotopes, almost all the p-wave resonances must be missing in the present evaluated results. The contribution of the missing p-wave resonances was calculated from the unresolved resonance parameters and was given as the background cross section. With this background cross section, the upper boundary of the resonance region could be extended up to 13.7 keV.

3.27 Promethium-147

Available data are 58Harvey+, 71Coddington+, 73Kirouac+ and 76Anufriev+. All of these data were obtained by the transmission measurements and no capture measurements have so far been made.

The Γ_n and Γ_γ values were evaluated by averaging 71Coddington+ and 73Kirouac+. A negative resonance was assumed at -1.6 eV so as to reproduce the thermal capture cross section.

Considerable level missing above 100 eV was pointed out by 71Coddington+, and the upper boundary of the resolved resonance region was set at 102 eV.

3.28 Samarium-147

Numerous experimental data exist for this nuclide. Among them,

* JENDL-1.5 adopted the resonance parameters recommended in BNL-325, 3rd edition.

the newest data of 81Mizumoto are deduced from both the transmission and capture measurements and cover the widest energy range. Furthermore, the neutron width of 81Mizumoto agree with those of 71Karzhavina+ and of 74Eiland+ within the quoted errors for most of levels.

The data of 81Mizumoto were adopted in the present work. The J-assignment was made on the basis of 70Kvitek+, 71Cauvin+ and 72Karzhavina+. A negative resonance was added at -2.2 eV so as to reproduce the thermal capture cross sections recommended in 74Eiland+; 56 ± 7 barns for capture and 65 ± 8 barns for total.

According to 81Mizumoto, considerable level missing is observed above 200 eV. It was pointed out, however, that the staircase plotting of $g\Gamma_n^{(0)}$ shows a straight line up to 1.8 keV. This suggests that the missing weak levels little affect the average cross sections. Hence the upper boundary of resolved resonance region was set at 1.8 keV.

3.29 Samarium-148

No resonance parameters have so far been reported. The $1/v$ shape which gives 2.7 ± 0.6 barns at 0.0253 eV was assumed for the capture cross section up to a connecting energy to the unresolved resonance region. The connecting energy of 53 eV corresponds to a half of the mean level spacing assumed in the unresolved resonance region.

3.30 Samarium-149

Numerous experimental data exist for this nuclide, because this is the famous poison nucleus for thermal reactors.

For the lowest two levels, the energy and Γ_γ value were taken from 68Akyuez+. The Γ_n value was obtained by averaging 68Akyuez+ and 69Asami+ for the 0.0973 eV level and 63Pattenden and 68Akyuez+ for the

0.872 eV level. Above the third levels, the most recent data of 81Mizumoto look the best and were adopted. The J-assignment was made according to 62Marshak+, 71Cauvin+, 72Karzhavina+ and 74Becvar+. No negative resonance was added.

According to 81Mizumoto, considerable level missing is observed above 150 eV. The staircase plotting of $g\Gamma_n^{(0)}$ suggests, however, that the missing weak levels little affect the average cross sections up to 420 eV. Hence the upper boundary of resolved resonance region was set at 424 keV.

3.31 Samarium-150

Available experimental data are 54Sailor+, 57Simpson+, 74Eiland+ and 77Anufriev+. The evaluation was made on the basis of the transmission measurements of 74Eiland+ and 77Anufriev+.

The Γ_n value was obtained by averaging 74Eiland+ and 77Anufriev+. The average Γ_γ of 60 meV was assumed. A negative resonance was added at -3.5 eV according to 74Eiland+ so as to reproduce the thermal cross sections of 74Eiland+; 107 ± 9 barns for capture and 122 ± 12 barns for total.

According to 74Eiland+, some levels are missing above 700 eV. However, a good linearity of the staircase plot of $g\Gamma_n^{(0)}$ suggests that the missing weak levels little affect the average cross sections. The upper boundary of the resolved resonance region was thus set at 1.54 keV.

3.32 Samarium-151

Available experimental data are 58Harvey+, 63Pattenden, 75Kirouac+ and 77Anufriev+. All of these data were deduced from the transmission measurements. The Γ_γ values were reported for 13 low energy levels in 75Kirouac+.

The Γ_n value was obtained by averaging 63Pattenden, 75Kirouac+ and 77Anufriev+. The Γ_γ value was taken from 75Kirouac+. For levels whose Γ_γ values were not reported, the average value of 65 ± 15 meV was assumed. A negative resonance was added at -0.12 eV so as to reproduce the thermal capture cross section.

According to 75Kirouac+, some levels are missing above 110 eV. However, the cumulative plots of the reduced neutron width has a linearity up to 250 eV, suggesting that the missing levels are very weak ones. Hence the upper boundary of the resolved resonance region was set at 246 eV.

3.33 Samarium-152

Among the available 5 experimental data, 72Rahn+ gives the reduced neutron width for levels up to 5.1 keV and the Γ_γ value for 9 low energy levels from the transmission and self-indication measurements.

The present evaluation adopted the data of 72Rahn+. For levels whose Γ_γ values were not reported, the average value of 65 ± 15 meV was assumed. A negative resonance was added at -20 eV so as to reproduce the thermal capture cross section.

According to 72Rahn+, some levels are missing above 2.7 keV. However, a fair linearity of the cumulative plot of the reduced neutron widths up to 5 keV suggests that the missing weak levels little affect the average cross sections. Hence the upper boundary of the resolved resonance region was set at 5 keV.

3.34 Samarium-154

Available experimental data are 68Karzhavina+ and 72Rahn+. 72Rahn+ gives the reduced neutron width for levels up to 5.1 keV and the

radiation width for three levels from the transmission and self-indication measurements.

The present evaluation adopted the data of 72Rahn+. For levels whose Γ_{γ} values were not reported, the average value of 79 ± 13 meV was assumed. A negative resonance was added at -35 eV so as to reproduce the thermal capture cross section.

According to 72Rahn+, some levels are missing above 3 keV. However, the upper boundary of the resolved resonance region was set at 4.7 keV, because the cumulative plot of the reduced neutron widths shows a linearity up to 5 keV.

3.35 Europium-151

Most of experimental data were reported before 1965. 72Rahn+ gives the neutron and radiation widths up to 100 eV from the transmission and self-indication measurements.

The present evaluation adopted the Γ_n and Γ_{γ} values of 72Rahn+. For the lowest two levels where 72Rahn+ did not give the parameters, the data of 61Tassant+ were adopted. For levels whose Γ_{γ} values were not reported, the average value of 93 ± 10 meV was assumed. A negative resonance was added at -0.00361 eV so as to reproduce the thermal capture cross section.

According to 72Rahn+, some levels are missing above 60 eV, but the cumulative plot of the reduced neutron width shows a linearity up to 100 eV. Hence the upper limit of the resolved resonance region was set at 98.2 eV, because the missing weak levels can be neglected in calculating the average cross sections.

3.36 Europium-152

77Vertebny+ is the only available experimental data. The resonance energies of 25 levels were reported but the radiation and reduced neutron widths were given only for 12 levels.

The present evaluation adopted these parameters. The upper boundary of the resolved resonance region was set at 6.5 eV, because many uncertain levels exist above 7 eV. A negative resonance at -0.1 eV was taken from BNL-325, 4th edition.

3.37 Europium-153

Most of experimental data were measured before 1965 except two new data; 72Rahn+ and 79Anufriev+. 72Rahn+ gives the neutron and radiation widths up to 100 eV from the transmission and self-indication measurements. 79Anufriev+ gives the total and neutron widths up to 30 eV.

In the present evaluation, the Γ_n value was obtained by averaging 72Rahn+ and 79Anufriev+. The Γ_γ value was taken from 72Rahn+. For levels whose Γ_γ values were not given, the average value of 96 ± 10 meV was assumed. A negative resonance was added at -0.5 eV so as to reproduce the thermal capture cross section.

The resonance parameters thus evaluated give the capture resonance integral of 1370 barns which is smaller than the recommended value of BNL-325, 4th edition⁸⁾; 1420 ± 100 barns. Hence the parameters of 1.73, 2.46, 3.29 and 3.94 eV levels were replaced by the recommended parameters of BNL-325, 4th edition.

According to 72Rahn+, some levels are missing above 60 eV. However, the upper boundary of the resolved resonance region was set at 97.2 eV, because a fair linearity of the cumulative plot of the reduced neutron width up to 100 eV suggests that the missing levels are negligibly weak.

3.38 Europium-154

Available experimental data are 77Vertebny+ and 79Anufriev+. 79Anufriev+ gives the total and neutron width for 20 levels up to 27 eV, while 77Vertebny+ gives the parameters only for 3 levels. The parameters of these two sets do not agree with each other.

The present evaluation was made on the basis of 79Anufriev+. No negative resonance was added, since the presently adopted parameters reproduce the thermal capture cross section satisfactorily.

The upper limit of the resolved resonance region was set at 26.2 eV.

3.39 Europium-155

The only available experimental data set is 79Anufriev+ which gives the total and neutron widths for 7 resonance levels up to 33 eV*.

The present evaluation adopted the data of 79Anufriev+. The adopted parameters underestimate the thermal capture cross section. Hence a negative resonance was added at -0.5 eV and the neutron width of the first positive resonance level was increased within the quoted error.

The upper boundary of the resolved resonance region was set at 29.7 eV.

* After the present work finished, we found 79Vertebny+ which gives a larger neutron width than the presently evaluated one for the first positive resonance. BNL-325, 4th edition adopted the average of 79Vertebny+ and 79Anufriev+ for the first level, and gives the thermal capture cross section of 3950 barns without the negative resonance.

4. Summary of Evaluation

The presently evaluated results are summarized in this chapter.

Table 1 shows the exact mass, the spin-parity of the ground state and the isotope abundance or half-life for each nuclide.

Table 2 shows the status of the presently evaluated resolved resonance parameters, i.e., the effective scattering radius, the upper boundary of the resonance region, and the number of resonance levels, and the minimum and maximum energies of the adopted resonance levels.

Table 3 gives the unresolved resonance parameters. As the unresolved resonance parameters are energy dependent in most of cases, the tabulated values are those at 70 keV.

In Table 4, the calculated thermal cross sections and the capture resonance integral are compared with the recommended values in BNL-325, 3rd and 4th editions.

5. Discussion and Concluding Remarks.

The present evaluation was made on the basis of all the available experimental data with a common method. We believe that its reliability is very high. However, the following should be still noted.

The multi-level Breit-Wigner formula is adopted in the present evaluation. The spin J of each resonance must be known exactly with this formula in order to calculate the interference effects among levels. In the present work, however, J value was often assumed to be I (the spin of target nucleus) for levels where no experimental J value was assigned. This assumption violates the multi-level Breit-Wigner formula. However, we have developed a method⁹⁾ to overcome this problem by considering the statistical weight of each spin state. The RESENDD code¹⁰⁾ adopts this method and can treat the presently evaluated data. It is to be noted that many processing codes of foreign origin such as RECENT¹¹⁾, SUPERTOG¹²⁾ and NJOY¹³⁾ cannot treat the present data without a slight modification.

The present evaluation was made through 4 years. Hence some later developed methods were not applied to the early evaluation. For example, in the evaluation of ^{95}Mo and ^{97}Mo , the most recent data of 76Musgrove⁺ were abandoned, because there exists a gap between its lowest energy and the highest energy of the other data. On the other hand, in the evaluation of ^{99}Tc and Ba isotopes, this problem was resolved by generating the artificial levels with the STAT code⁴⁾.

The upper boundary of the resolved resonance region was determined by checking the level missing with the aid of the staircase plotting of resonance levels. In the later evaluation for Sm and Eu isotopes, the linearity of the cumulative plot of the reduced neutron width was also examined whether the missing levels affect the average cross section

values. With this new method the resonance region could be extended for these nuclides.

One or two negative resonances were often assumed, when the capture cross section calculated with the parameters of positive resonances is lower than the measured data. These negative resonances generally cause non $1/v$ behavior below the first positive resonance as shown in Fig. 2. Such strong non $1/v$ behavior seems strange for a weak absorber such as ^{138}Ba . In the case of ^{138}Ba , the negative resonance was readjusted and the non $1/v$ behavior was improved as seen in Fig. 3. For most of cases, however, this problem was left unresolved.

These problems will be resolved in the evaluation for JENDL-3. All the experimental data used in the present work are stored in REPSTOR system. Hence the future evaluation will be made very easily only by adding the newly published experimental data to REPSTOR system.

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Table 1 Mass, ground-state spin-parity and abundance or half-life of each nuclide.

Nuclide	Mass* (u)	ground-state** spin-parity	abundance*** or half-life
Mo-92	91.9068	0+	14.8%
94	93.0984	0+	9.3%
95	94.9058	5/2+	15.9%
96	95.9047	0+	16.7%
97	96.9060	5/2+	9.6%
98	97.9054	0+	24.1%
100	99.9075	0+	9.6%
Tc-99	98.9063	9/2+	2.14×10^5 y
Te-128	127.904	0+	31.7% (1.5×10^{24} y)
Ba-134	133.904	0+	2.42%
135	134.906	3/2+	6.59%
136	135.905	0+	7.85%
137	136.906	3/2+	11.2%
138	137.905	0+	71.7%
La-139	138.906	7/2+	99.911%
Ce-140	139.905	0+	88.5%
142	141.909	0+	11.1%
144	143.914	0+	284d
Pr-141	140.908	5/2+	100%
Nd-142	141.908	0+	27.2%
143	142.910	7/2-	12.2%
144	143.910	0+	23.8% (2.1×10^{15} y)
145	144.913	7/2-	8.3%
146	145.913	0+	17.2%
148	147.917	0+	5.7%
150	149.921	0+	5.6%
Pm-147	146.915	7/2+	2.6234y
Sm-147	146.915	7/2-	15.1% (1.06×10^{11} y)
148	147.915	0+	11.3% (8×10^{15} y)
149	148.917	7/2-	13.9%

Nuclide	Mass (u)	ground-state spin-parity	abundance or half-life
Sm-150	149.917	0+	7.4%
151	150.920	5/2-	90d
152	151.920	0+	26.6%
154	153.922	0+	22.6%
Eu-151	150.920	5/2+	47.9%
152	151.922	3-	13y
153	152.921	5/2+	52.1%
154	153.923	3-	8.5y
155	154.923	5/2+	4.9y

* Taken from the compilation by Wapstra and Boss¹⁴⁾

** Taken from Table of Isotopes, 7th edition¹⁵⁾

*** Taken from BNL-325, 3rd or 4th edition^{5,7,8)}

Table 2 Status of Resolved resonance parameters

Nuclide	R(fm)	Upper boundary of resonance region (eV)	s-wave resonances			p-wave resonances		
			No.	E_{\min} (eV)	E_{\max} (eV)	No.	E_{\min} (eV)	E_{\max} (eV)
Mo-92	7.0	50000.0	19	347.0	47930.0	58	1860.0	50180.0
94	7.2	20000.0	13	1541.8	20255.0	45	108.8	20670.0
95	7.0	2000.0	21	-20.0	2130.1	35	110.5	2140.9
96	7.0	19000.0	15	131.4	18107.0	60	113.4	19605.0
97	6.9	1800.0	23	-20.0	1940.8	43	16.2	1903.8
98	6.9	32000.0	30	-980.0	52790.0	128	12.1	52260.0
100	6.9	26000.0	33	-172.0	25827.0	91	97.2	26165.0
Tc-99	6.0	4219.0	142	5.59	4164.0	207	61.42	4230.0
Te-128	5.5	21420.0	20	-150.0	21820.0	20	435.5	21025.0
Ba-134	5.14	10575.0	22	-104.0	10621.0	57	1359.0	10534.0
135	5.14	5960.0	149	-51.0	5978.0	45	671.0	5842.0
136	5.14	34490.0	16	-250.0	25320.0	76	1297.0	34640.0
137	5.14	11885.0	33	-26.0	11900.0	52	1050.0	11490.0
138	5.14	100000.0	28	-622.0	192000.0	26	4715.0	91800.9
La-139	5.0	25862.0	102	-41.0	26018.0	69	0.734	24285.0
Ce-140	5.6	200000.0	50	-64.0	235490.0	148	5640.0	238650.0
142	5.9	3560.0	6	-498.5	26000.0			
144		no resonances						
Pr-141	4.9	13226.0	120	-32.0	13242.0	129	112.3	13315.0
Nd-142	4.75	26000.0	27	-20.0	31050.0	74	218.6	32107.0
143	4.71	5000.0	113	-6.0	5503.0	38	226.2	4999.0
144	4.62	12000.0	36	-76.0	19407.0	34	2955.0	11721.0

Nuclide	R(fm)	Upper boundary of resonance region (eV)		s-wave resonances		p-wave resonances		
		No.	E_{\min} (eV)	E_{\max} (eV)	No.	E_{\min} (eV)	E_{\max} (eV)	
Nd-145	4.7	4000.0	184	-28.0	4637.0	28	306.2	3936.5
146	8.49	10000.0	44	-200.0	17323.0	50	2792.0	9841.0
148	8.49	8000.0	68	-400.0	11924.0	57	2710.8	7981.4
150	8.2	13690.0	79	-10.0	13844.0			
Pm-147	8.2	102.0	44	-1.6	316.5			
Sm-147	7.77	1809.0	213	-2.2	1988.0			
148		no resonances						
149	7.52	423.9	158	0.0973	519.6			
150	8.08	1538.0	23	-3.5	1563.0			
151	7.95	246.1	121	-0.12	295.7			
152	8.2	5029.0	92	-20.0	5100.0			
154	8.34	4654.0	36	-35.0	5075.0			
Eu-151	8.29	98.2	92	-0.00361	98.61			
152	8.25	6.55	14	-0.1	9.94			
153	8.63	97.2	73	-0.5	97.6			
154	8.63	26.2	20	0.188	27.3			
155	8.63	29.7	8	-0.5	33.1			

Table 3 Unresolved resonance parameters

Nuclide	S_0	S_1	S_2	S_γ	R'	D_{obs}	Comment
Mo-92	0.370	5.48	0.365	0.942	6.714	2400.	B
94	0.370	5.48	0.365	2.00	6.678	1150.	B
95	0.370	5.48	0.365	29.0	6.696	80.0	B
96	0.370	5.48	0.365	1.71	6.685	950.	B
97	0.370	5.48	0.365	30.0	6.673	60.0	B
98	0.370	5.48	0.365	1.40	6.661	950.	B
100	0.370	5.48	0.365	1.37	6.637	620.	B
Tc-99	0.415	4.24	0.489	90.8	6.216	20.6	C
Te-128	1.00	1.70	1.0	0.533	5.329	900.	A
Ba-134	0.600	0.900	0.550	7.72	5.193	231.	A
135	0.889	0.790	0.543	58.1	4.986	59.8	C
136	0.520	0.850	0.550	1.32	5.288	869.	A
137	0.753	0.525	0.963	3.89	5.699	324.	C
138	—	—	—	—	—	—	D
La-139	0.760	0.300	0.550	2.08	5.441	279.	A
Ce-140	—	—	—	—	—	—	D
142	0.520	0.850	0.550	0.286	5.267	2100.	A
144	0.520	0.850	0.550	0.303	5.263	1981.	A
Pr-141	1.72	0.700	1.33	6.32	5.434	134.	A
Nd-142	1.235	0.715	0.932	1.07	4.901	629.	A
143	2.624	1.042	1.783	21.4	4.143	37.0	A
144	2.928	0.688	3.543	0.998	7.660	411.	A
145	2.927	0.685	3.51	54.7	7.683	17.8	A
146	2.927	0.682	3.479	2.13	7.701	240.	A
148	2.927	0.676	3.417	2.79	7.703	148.	A
150	2.60	0.667	3.50	3.39	7.993	109.	A
Pm-147	3.10	0.680	3.48	144.	7.518	6.97	A
Sm-147	4.77	0.710	3.86	164.	6.200	6.94	A
148	3.11	0.730	3.37	6.42	7.294	93.5	A
149	4.78	0.770	3.65	512.	5.828	2.62	A
150	3.13	0.755	3.43	16.2	7.541	49.9	A
151	3.51	0.765	3.37	557.	7.259	1.73	A
152	2.20	0.850	2.60	17.0	7.996	44.0	A
154	2.06	0.895	2.56	7.92	8.340	74.5	C

Nuclide	S_0	S_1	S_2	S_γ	R'	D_{obs}	Comment
Eu-151	3.70	1.00	3.50	1170.	7.223	1.11	A
152	2.48	0.92	3.20	2160.	8.254	0.462	B
153	2.61	1.40	2.95	631.	7.918	1.49	A
154	2.48	0.920	3.14	1150.	8.342	1.13	A
155	2.48	0.920	3.11	221.	8.383	4.53	A

Comment

- A: D_{obs} was adjusted at each energy point so as to reproduce the capture cross section calculated with the statistical model. The tabulated D_{obs} and S_γ are the values at 70 keV.
- B: Constant D_{obs} was used.
- C: S_0 , S_1 and S_2 are searched for at each energy point so as to reproduce the experimental capture cross section. The tabulated values are those at 70 keV.
- D: Unresolved resonance region is not defined to this nuclide.

Table 4 2200m/s cross sections and resonance integrals

Nuclide	2200 m/s cross sections (barns)			resonance integrals (barns)		
	present	BNL-325(3rd)	BNL-325(4th)	present	BNL-325(3rd)	BNL-325(4th)
Mo-92	tot	5.566				
	ela	5.545				
	cap	0.02075	~0.045	0.019	0.981	0.52±0.11	0.81
Mo-94	tot	6.011				
	ela	5.998				
	cap	0.01311	0.016	0.015	1.43	0.57±0.12	0.82
Mo-95	tot	19.58				
	ela	5.586				
	cap	13.99	14.5±0.5	14.0±0.5	119	105±7	109±5
Mo-96	tot	5.322				
	ela	4.727				
	cap	0.5954	1.0±0.6	0.5±0.2	17.6	20±5	17±3
Mo-97	tot	7.953				
	ela	5.853				
	cap	2.100	2.2±0.7	2.1±0.5	17.3	13±3	14±3
Mo-98	tot	5.772				
	ela	5.642				
	cap	0.1300	0.130±0.006	0.130±0.006	6.558	6.2±0.3	6.9±0.3
Mo-100	tot	5.499				
	ela	5.300				
	cap	0.1990	0.199±0.003	0.199±0.003	3.92	3.75±0.15	3.75±0.15

Nuclide	2200 m/s cross sections (barns)		resonance integrals (barns)		
	present	BNL-325 (3rd)	present	BNL-325 (3rd)	
Tc-99	tot	23.16			
	ela	3.378			
	cap	19.78	19±2	20±1(g)	
Te-128	tot	4.313			
	ela	4.099			
	cap	0.2140	0.215±0.008	0.215±0.008	
Ba-134	tot	5.428			
	ela	3.426			
	cap	2.002	2.0±1.6	2.0±1.6	
Ba-135	tot	7.986			
	ela	2.183			
	cap	5.804	5.8±0.9	5.8±0.9	
Ba-136	tot	2.964			
	ela	2.564			
	cap	0.4001	0.4±0.4	0.4±0.4	
Ba-137	tot	9.157			
	ela	4.047			
	cap	5.110	5.1±0.1	5.1±0.4	
Ba-138	tot	5.801			
	ela	5.442			
	cap	0.3591	0.35±0.15	0.360±0.036	
			present	BNL-325 (3rd)	BNL-325 (4th)
			319	340±20	340±20
			1.26	1.5±0.1	1.66±0.06
			24.8	23±5	23±5
			129	100±50	131±10
			2.05	1.3±0.3	1.6±0.3
			3.83	4±1	4.3±1.0
			0.190	0.2±0.1	0.32±0.04

Nuclide	2200 m/s cross sections (barns)			resonance integrals (barns)		
	present	BNL-325(3rd)	BNL-325(4th)	present	BNL-325(3rd)	BNL-325(4th)
La-139	tot	20.49				
	ela	11.55	9.3±0.7	10.13±0.22		
	cap	8.934	9.0±0.3	8.93±0.04	11.7	12.2±0.6
Ce-140	tot	3.384				
	ela	2.817	4.0±0.6	2.83±0.11		
	cap	0.5673	0.57±0.04	0.57±0.04	0.275	0.47±0.05
Ce-142	tot	3.188				
	ela	2.226	3.7±0.2			
	cap	0.9613	0.95±0.05	0.96±0.05	1.02	0.73±0.04
Ce-144	tot	4.481				
	ela	3.481				
	cap	1.000	1.0±0.1	1.0±0.1	2.56	2.6±0.3
Pr-141	tot	14.03				
	ela	2.538	3.3±0.5	2.54±0.06		
	cap	11.49	11.5±0.3	11.5±0.3	18.4	14.1±0.2
Nd-142	tot	26.99	26.2±0.9			
	ela	8.296	7.5±0.5	7.7±0.5		
	cap	18.70	18.7±0.7	18.7±0.7	6.45	9±1
Nd-143	tot	409.4	400±13			
	ela	79.55	75±7	80±2		
	cap	329.9	325±10	325±10	130	140±30
						128±30

Nuclide	2200 m/s cross sections (barns)			resonance integrals (barns)		
	present	BNL-325(3rd)	BNL-325(4th)	present	BNL-325(3rd)	BNL-325(4th)
Nd-144	tot	4.805				
	ela	1.001	1.0±0.2			
	cap	3.804	3.6±0.9	3.6±0.3	4.31	5.0±0.5	3.9±0.5
Nd-145	tot	59.46				
	ela	15.62				
	cap	43.84	42±2	42±2	204	240±35	240±35
Nd-146	tot	10.89				
	ela	9.496		9.6±0.4		
	cap	1.399	1.4±0.1	1.4±0.1(g)	2.91	3.2±0.5	3.2±0.5
Nd-148	tot	6.997				
	ela	4.505		4.0±0.5		
	cap	2.493	2.5±0.2	2.5±0.2	14.8	19±1	14±1
Nd-150	tot	5.981				
	ela	4.780		3.5±0.5		
	cap	1.202	1.2±0.2	1.2±0.5(g)	15.9	14±2	14±2
Pm-147	tot	186.0	205±7			
	ela	3.747		21.0±1.5		
	cap	182.3	181±7	168.4±3.5	2210	2300±287	2064±100
Sm-147	tot	62.53	75±6			
	ela	0.9222	11±7			
	cap	61.61	64±5	57±3	782	714±50

Nuclide	2200 m/s cross sections (barns)			resonance integrals (barns)		
	present	BNL-325(3rd)	BNL-325(4th)	present	BNL-325(3rd)	BNL-325(4th)
Sm-148	tot	9.385				
	e1a	6.685				
	cap	2.700	2.7±0.6	2.4±0.6	31.9	27±14
Sm-149	tot	41250				
	e1a	184.6	197			
	cap	41060	41000±2000	40140±600	3510	3183
Sm-150	tot	116.9	133±8			
	e1a	8.341				
	cap	108.6	102±5	104±4	326	310±15
Sm-151	tot	15210	15200±300			
	e1a	50.82				
	cap	15150	15000±1800	15200±300	3440	3300±700
Sm-152	tot	207.2	209±6			
	e1a	0.9466	3.0±0.2			
	cap	206.2	206±6	206±6	2770	3000±200
Sm-154	tot	13.60				
	e1a	8.093	11±3			
	cap	5.510	5.5±1.1	8.4±0.5	35.3	30±10
Eu-151	tot	9201				
	e1a	3.504	6.3±0.4			
	cap	9198	9200±100	9200±100	3090	3300±300

Nuclide	2200 m/s cross sections (barns)			resonance integrals (barns)		
	present	BNL-325(3rd)	BNL-325(4th)	present	BNL-325(3rd)	BNL-325(4th)
Eu-152	tot	12800				
	ela	27.02				
	cap	12770	2300±1000	12800±600	2220	1580
Eu-153	tot	399.3				
	ela	7.201	8.0±0.2	9.7±0.7		
	cap	392.1	390±30	312±7	1420	1635±200
Eu-154	tot	1652				
	ela	6.025				
	cap	1646	1500±400	1340±130	1180	802
Eu-155	tot	4063				
	ela	16.70				
	cap	4046	4040±125	3950±125	18800	23200±300

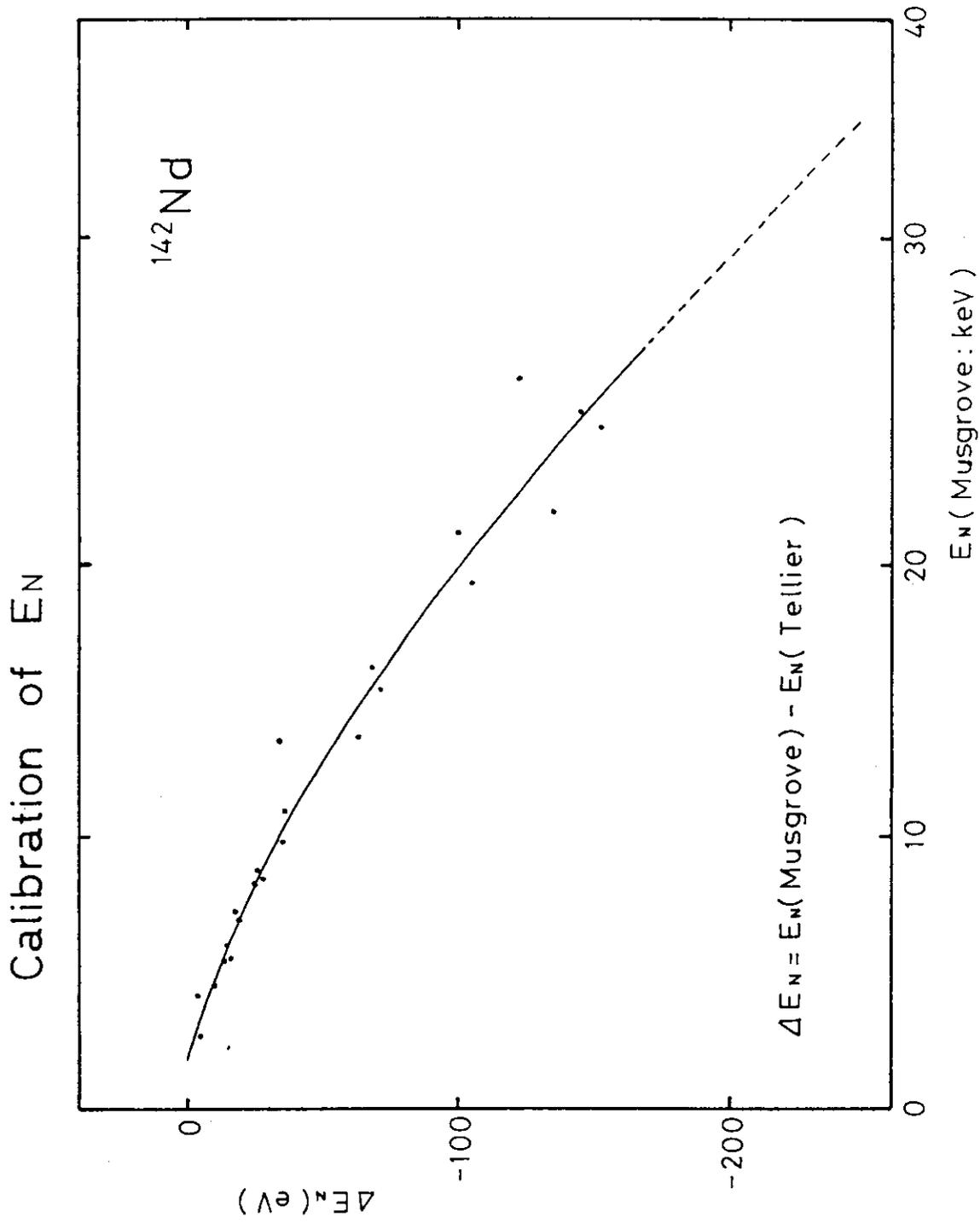


Fig. 1 Systematic discrepancy of energy levels between 7ITellier and 77Musgroves.

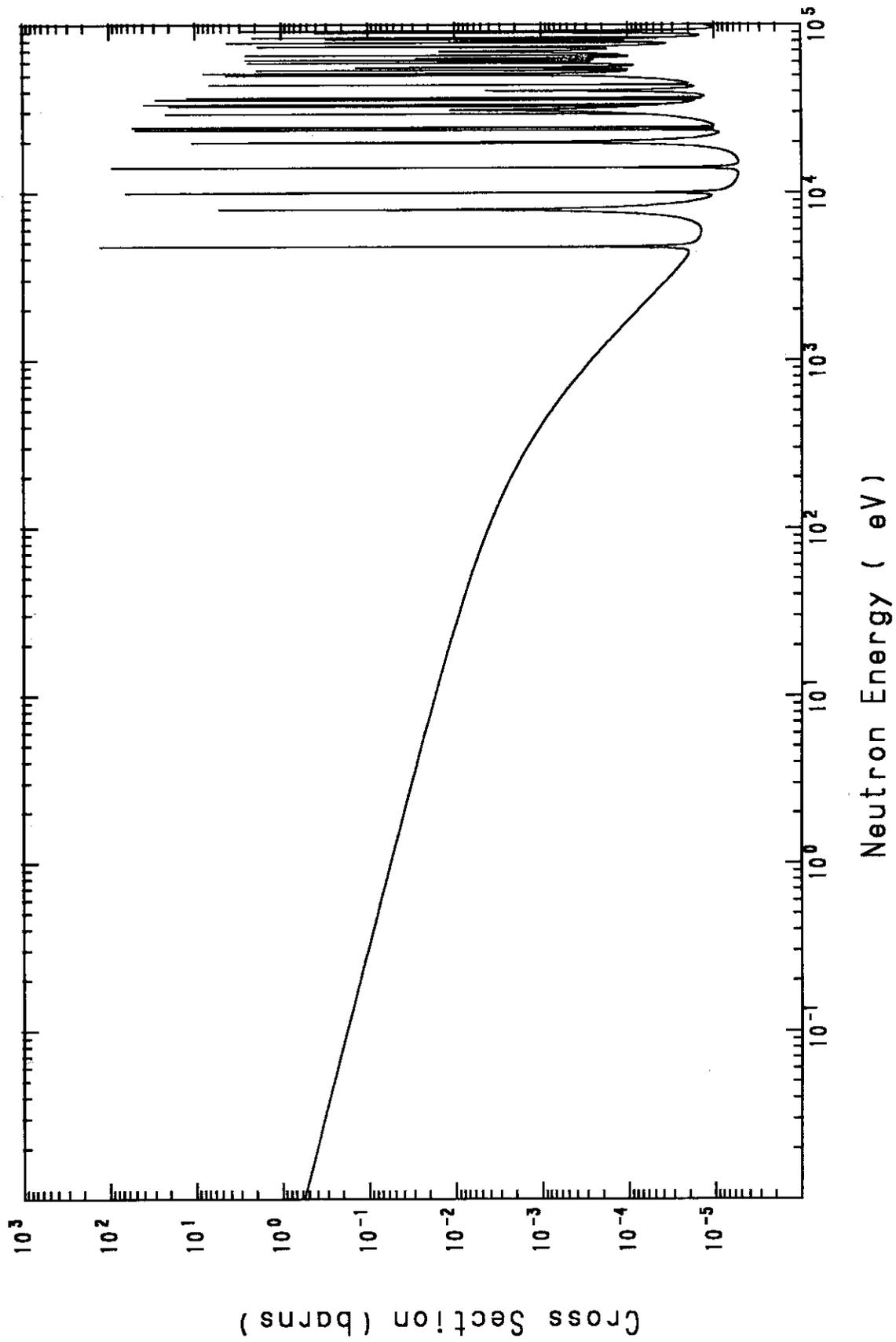


Fig. 2 The capture cross section of ^{138}Ba below 100 keV with the original negative resonance.

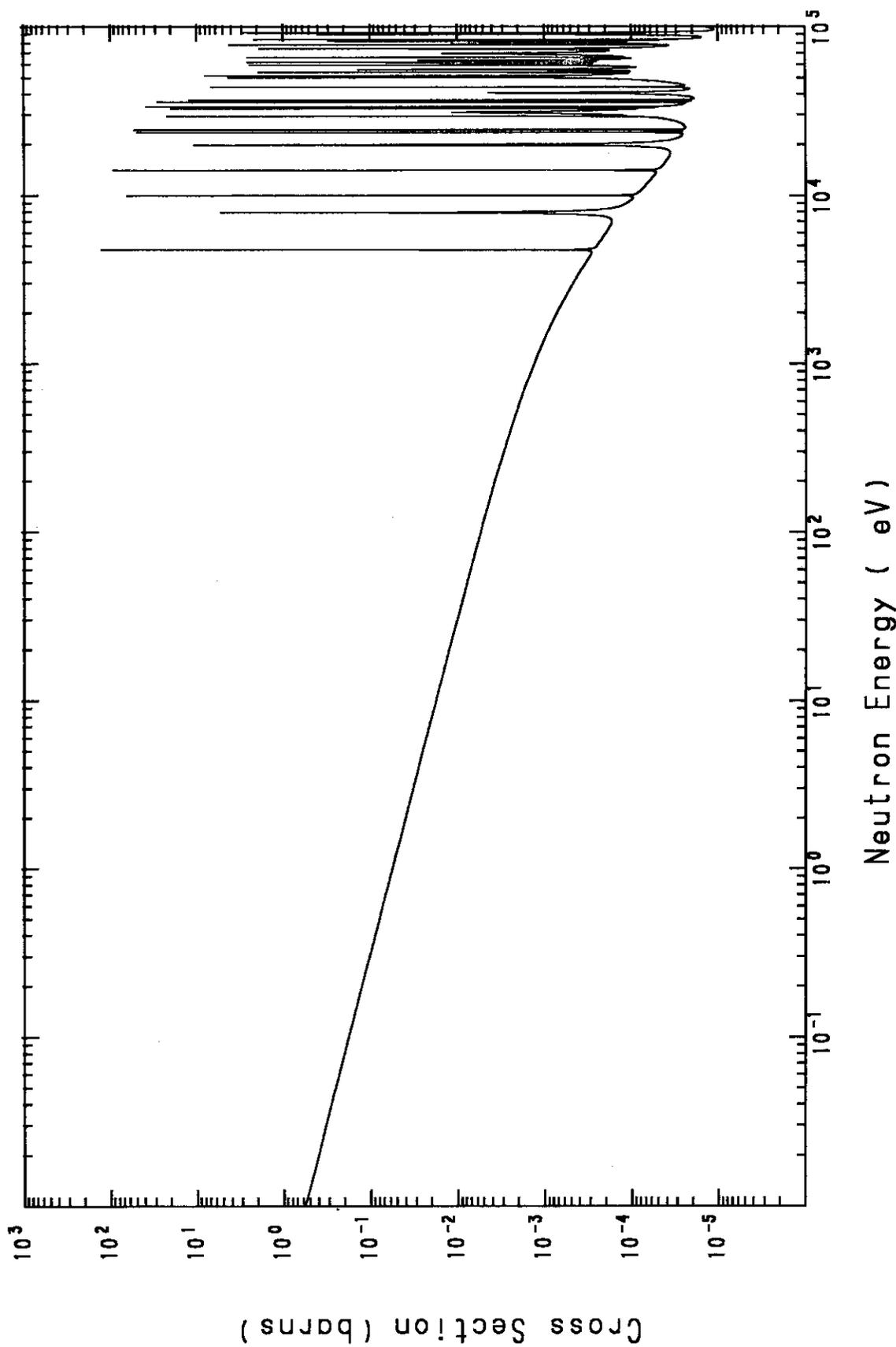


Fig. 3 The capture cross section of ^{138}Ba below 100 keV with the readjusted negative resonance.

Appendix

Tables of Resonance Parameters

The presently evaluated resonance parameters for JENDL-2 are compared with the experimental data as well as the data of JENDL-1 and JENDL-1.5. The reference is given in 'References of Experimental Data' in the main text. The following abbreviations are used in the tables.

- 1) Mark A or B appeared in Neutron Width means that the value is $2g\Gamma_n$ for the odd-A nuclide and $g\Gamma_n$ for the even-even nuclide.
- 2) Mark A or B appeared in Gamma Width means that the value is $2g\Gamma_\gamma$ for the odd-A nuclide and $g\Gamma_\gamma$ for the even-even nuclide.
- 3) 'WW5' in the sixth column means $g\Gamma_n\Gamma_\gamma/\Gamma$.
- 4) The abbreviations in Miscellaneous are tabulated as follows:

ARG = capture resonance area,

COM = comment,

GN1 = $\Gamma_n^{(1)}$,

WGH = $g\Gamma_n^{(0)}$,

WGN = $2g\Gamma_n$,

S = σ_0 (peak cross section).

GA = Γ_α ,

GT = Γ ,

WGI = $g\Gamma_n^{(1)}$,

WGO = $2g\Gamma_n^{(0)}$,

GNO = $\Gamma_n^{(0)}$,

G2S = $\sigma_0\Gamma^2$,

WGM = $g\Gamma_n$,

WW1 = $g\Gamma_\gamma$,

A.1 Molybdenum-92

ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
0.347 0.347 0.3469± 0.0009 0.347 0.34696 0.347	0 0 0 0 0	0.5 0.5 1.5 0.5	7.9 ± 1.5 7.9 2.4 ± 0.45 7.9 ± 0.6 7.9 ± 1.5	304 ± 61 176.0	7.7 ± 0.5 7.7 ± 0.5	GT = 183.9 GND= 0.42 ± 0.07	JENDL-2 JENDL-1 69SHAE+ 71MUGHABGHAB+ 71WEIGMANN+ 73MAYSSON+
1.86 1.8688 1.8681 1.86	1 1 1	1.5 1.5 1.5	23.8 ± 2.9 23.5 43.0 ± 10.0	(425) 242.0	45 ± 3 45 ± 3	GT = 265.5 WGH= 250.0 ± 60.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+
2.04		1.5					71MUGHABGHAB+
2.32 2.3226 2.3233 2.32	1 1 1	1.5 1.5 1.5	29.4 ± 3.6 25.0 45.0 ± 6.0	(425) 242.0	55 ± 4 55 ± 4	GT = 267.0 WGH= 580.0 ± 100.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+
3.061 3.06 3.0581 3.06 3.061± 0.003	1 1 1 1	0.5 0.5 (0.5) (0.5)	68 ± 10 75.0 68.0 ± 10.0	222 ± 35 176.0	68 ± 4 68 ± 5 84.0 ± 6.0 75 ± 8	GT = 251.0 WGH= 190.0 ± 20.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
3.175 3.169 3.1690 3.17 3.175± 0.003	0 0 0 0	0.5 0.5 0.5	7800 ± 600 7800.0 10756 ± 3585) 7800.0 ± 600.0	216 ± 18 215.0 224 ± 22 210.0 ± 20.0 206 ± 25	211 ± 7 220 ± 22 210.0 ± 20.0 202 ± 22	GT = 8015.0 GND= 138.0 ± 120.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
4.294 4.286 4.2864 4.29 4.294± 0.003	1 1 1 1	1.5 1.5 1.5 1.5	525 ± 100 525.0 1050.0 ± 200.0	231 ± 46 220.0	321 ± 18 320 ± 38 303.0 ± 35.0 346 ± 40	GT = 745.0 WGH= 1760.0 ± 200.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
5.579 5.568 5.565 5.58 5.579± 0.003	1 1 1 1	1.5 1.5 1.5 1.5	250 ± 25 250.0 500.0 ± 50.0	331 ± 38 300.0	285 ± 16 280 ± 36 274.0 ± 27.0 315 ± 40	GT = 550.0 WGH= 560.0 ± 50.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
6.032 6.024 6.024 6.03 6.032± 0.004	1 1 1 1	1.5 1.5 1.5 1.5	290 ± 75 290.0 580.0 ± 150.0	336 ± 67 242.0	311 ± 8 300 ± 39 313.0 ± 31.0 320 ± 40	GT = 532.0 WGH= 570.0 ± 150.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
6.484 6.47 6.464 6.48 6.484± 0.004	1 1 1 1	0.5 0.5 (0.5) (0.5)	1100 ± 100 1100.0 1100.0 ± 100.0	112 ± 13 108.0	102 ± 8 105 ± 12 90.0 ± 13.0 108 ± 12	GT = 1208.0 WGH= 970.0 ± 100.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
6.817 6.8 6.799 6.81 6.817± 0.004	0 0 0 0	0.5 0.5 0.5	580 ± 50 580.0 580.0 ± 50.0	178 ± 18 180.0	136 ± 6 145 ± 17 130.0 ± 13.0 139 ± 17	GT = 760.0 GND= 7.0 ± 1.2	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
7.135 7.12 7.117 7.12 7.135± 0.004	0 0 0 0	0.5 0.5 0.5	520 ± 100 520.0 520.0 ± 100.0	181 ± 39 190.0	134 ± 14 155 ± 17 122.0 ± 13.0 135 ± 17	GT = 710.0 GND= 6.2 ± 1.2	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
8.806 8.789 8.8 8.787 8.8 8.806± 0.004	1 1 1 1 1	1.5 1.5 (1.5) 1.5	1250 ± 250 1250.0 11300.0 2500.0 ± 500.0	184 ± 43 170.0	320 ± 40 282.0 ± 30.0 372 ± 45	GT = 1420.0 WGH= 1400.0 ± 300.0	JENDL-2 JENDL-1 680IVADEENAM+ 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
8.918 8.893 8.893 8.92 8.918± 0.004	1 1 1 1	0.5 0.5 (0.5) 0.5	3500 ± 300 3500.0 3500.0 ± 300.0	240 ± 37 220.0	224 ± 29 230 ± 27 200.0 ± 20.0 272 ± 30	GT = 3720.0 WGH= 2000.0 ± 400.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
9.140 9.127 9.127 9.13 9.140± 0.004	1 1 1 1	0.5 0.5 (0.5) (1.5)	1600 ± 300 1600.0 1800.0 ± 300.0	230 ± 48 230.0	201 ± 19 220 ± 26 184.0 ± 18.0 223 ± 30	GT = 1830.0 WGH= 860.0 ± 160.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
10.59 10.546 10.546 10.6 10.590± 0.006	1 1 1 1	1.5 1.5 1.5 1.5	230 ± 35 230.0 460.0 ± 70.0	376 ± 58 370.0	265 ± 5 280 ± 33 285.0 ± 30.0 282 ± 35	GT = 600.0 WGH= 200.0 ± 40.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
11.118 11.079 11.079 11.1 11.118± 0.006	1 1 1 1	1.5 1.5 (1.5) (1.5)	180 ± 30 180.0 360.0 ± 60.0	203 ± 34 205.0	191 ± 3 195 ± 27 188.0 ± 19.0 192 ± 25	GT = 385.0 WGH= 140.0 ± 30.0	JENDL-2 JENDL-1 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
11.543 11.494 11.3 11.494 11.5 11.543± 0.007	0 0 0 0 0	0.5 0.5 0.5 0.5	11000 ± 1500 11000.0 22000.0 11000.0 ± 1500.0	157 ± 28 162.0	155 ± 18 140 ± 16 184.0 ± 20.0 151 ± 18	GT = 11162.0 GND= 103.0 ± 14.0	JENDL-2 JENDL-1 680IVADEENAM+ 71WEIGMANN+ 73MAYSSON+ 76MUSGROVE+
12.856	1	1.5	110 ± 15	762 ± 108	192 ± 8		JENDL-2

Mo-92

ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
12.8 12.8 12.855± 0.01	1 1 1	1.5 1.5 1.5	110.0 220.0 ±30.0	242.0		GT = 352.0 WGH= 70.0 ±10.0	JENDL-1 73WASSON+ 76MUSGROVE+
13.76 13.7 13.5 13.7 13.760± 0.01	0 0 0 0 0	0.5 0.5 0.5 0.5	32000 ±3000 32000.0 57000.0 32000.0±3000.0	116 ±15 132.0	115 ±11	GT = 32132.0 GNO= 273.0 ±27.0	JENDL-2 JENDL-1 680IVADEENAM+ 73WASSON+ 76MUSGROVE+
14.145 14.1 14.1 14.145± 0.01	1 1 1 1	0.5 0.5 0.5 (0.5)	5200 ±400 5200.0 5200.0 ±400.0	167 ±23 155.0	162 ±19	GT = 5355.0 WGH= 1500.0 ±130.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
14.46 14.5 14.5 14.460± 0.01	1 1 1 1	1.5 1.5 1.5	110 ±20 110.0 220.0 ±40.0	233 ±43 242.0	150 ± 4	GT = 352.0 GNO= 1.8 ± 0.3 WGH= 100.0 ±20.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
15.68 15.67 15.67 15.680± 0.01	1 1 1 1	0.5 0.5 (0.5) (0.5)	5000 ±1400 5000.0 5000.0 ±1400.0	186 ±48 172.0 172.0 ±20.0 218 ±30	180 ±20	GT = 6172.0 WGH= 1440.0 ±340.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
15.715 15.72 15.72 15.715± 0.01	1 1 1 1	1.5 1.5 (1.5) (1.5)	950 ±350 950.0 1900.0 ±700.0	185 ±68 160.0 160.0 ±40.0 185 ±25	309 ± 5	GT = 1110.0 WGH= 460.0 ±150.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
16.55 16.5 16.3 16.5 16.550± 0.01	0 0 0 0 0	0.5 0.5 0.5 0.5	52500 ±6000 52500.0 72000.0 52500.0±6000.0	151 ±21 185.0	150 ±15	GT = 62666.0 GNO= 486.0 ±50.0	JENDL-2 JENDL-1 680IVADEENAM+ 73WASSON+ 76MUSGROVE+
17.295 17.3 17.3 17.295± 0.01	1 1 1 1	1.5 1.5 1.5	125 ±35 125.0 250.0 ±70.0	251 ±70 375.0 150.0	167 ± 1	GT = 500.0 WGH= 50.0 ±20.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
18.03 18.0 18.0 18.030± 0.01	1 1 1 1	1.5 1.5 (1.5) (1.5)	400 ±150 400.0 800.0 ±300.0	168 ±64 185.0 155.0 ±40.0 190 ±80	237 ±12	GT = 565.0 WGH= 150.0 ±60.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
18.155 18.1 18.1 18.155± 0.01	1 1 1 1	0.5 1.5	4000 ±150 2000.0 4000.0 ±150.0	216 ±18 242.0	205 ±16	GT = 2242.0 WGH= 820.0 ±300.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
19.195 19.2 18.8 19.2 19.195± 0.01	1 1 1 1 1	1.5 0.5 1.5 1.5	3000 ±750 3000.0 25100.0 5000.0 ±1500.0	195 ±54 180.0 251.0 180.0 ±20.0 240 ±35	366 ±45	GT = 3180.0 WGH= 1040.0 ±250.0	JENDL-2 JENDL-1 680IVADEENAM+ 73WASSON+ 76MUSGROVE+
20.345 20.3 20.3 20.345± 0.01	0 0 0 0	0.5 0.5 (0.5)	490 ±200 490.0 490.0 ±200.0	186 ±79 160.0 150.0 ±40.0 226 ±70	135 ±17	GT = 650.0 GNO= 3.0 ± 1.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
20.57 20.6 20.6 20.570± 0.01	1 0 1 1	0.5 0.6 (0.5) (0.5)	500 ±220 500.0 500.0 ±220.0	154 ±68 150.0	116 ± 3	GT = 650.0 WGH= 60.0 ±20.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
20.655 20.7 20.7 20.655± 0.01	1 1 1 1	1.5 1.5 (1.5)	70 ±30 70.0 140.0 ±60.0	498 ±215 242.0	123 ± 7	GT = 312.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
21.09 21.1 20.8 21.1 21.090± 0.01	0 0 0 0 0	0.5 0.5 0.5 0.5	31000 ±3000 31000.0 50000.0 31000.0±3000.0	168 ±19 177.0	167 ±10	GT = 31177.0 GNO= 210.0 ±20.0 ±3000.0	JENDL-2 JENDL-1 680IVADEENAM+ 73WASSON+ 76MUSGROVE+
21.20 21.200± 0.01	1 1	0.5	27.7 ±11	(425)	26 ±10		JENDL-2 76MUSGROVE+
21.775 21.7 21.7 21.775± 0.01	1 1 1 1	1.5 1.5	198 ±30 135.0 270.0 ±50.0	(425) 242.0	263 ±29	GT = 377.0 WGH= 40.0 ±10.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
23.955 23.9 23.4 23.9 23.955± 0.01	1 1 0 1 1	1.5 1.5 0.5 (1.5) 1.5	7600 ±750 7600.0 35000.0 15200.0±1500.0	408 ±60 355.0	774 ±84	GT = 7955.0 WGH= 2000.0 ±200.0	JENDL-2 JENDL-1 680IVADEENAM+ 73WASSON+ 76MUSGROVE+
25.475 25.5 25.5 25.475± 0.01	1 1 1 1	1.5 1.5 (1.5) (1.5)	4200 ±400 4200.0 8400.0 ±800.0	172 ±29 160.0	330 ±45	GT = 4360.0 WGH= 1000.0 ±100.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
25.83 25.8 25.6 25.8 25.830± 0.015	0 0 0 0 0	0.5 0.5 0.5 0.5	36500 ±4000 36500.0 89999.9 36500.0±4000.0	175 ±25 166.0	174 ±16	GT = 36666.0 GNO= 230.0 ±30.0	JENDL-2 JENDL-1 680IVADEENAM+ 73WASSON+ 76MUSGROVE+
26.23	1	0.5	73000 ±5000	1581 ±140	1548 ±88		JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
26.2 26.2	0 1	0.5	73000.0 #73000.0±5000.0	176.0	1460.0 ±200.0	GT = 73175.9 NGH= 8000.0 ±600.0 COM= MULTIPLET	JENDL-1 73WASSON+
26.230± 0.01	1	0.5		1670 ±200	1635 ±200		76MUSGROVE+
28.045 28.0 28.0	1 0 1	1.5 0.5	6500 ±300 13000.0 #13000.0±600.0	372 ±37 176.0	703 ±61 654.0 ±80.0	GT = 13176.0 NGH= 1300.0 ±160.0 COM= MULTIPLET	JENDL-2 JENDL-1 73WASSON+
28.045± 0.01	1	1.5		415 ±50	780 ±100		76MUSGROVE+
28.55 28.550± 0.01	0 0	0.5	450 ±180	55 ±22 55 ±20	49 ± 8 49 ± 8		JENDL-2 76MUSGROVE+
28.71 28.7 28.4 28.7 28.710± 0.01	1 0 1 1 1	0.5 0.5	26000 ±1900 26000.0 #40000.0 #26000.0±1900.0	245 ±44 176.0	243 ±40 221.0 ±22.0 316 ±40	GT = 26176.0 NGH= 2600.0 ±200.0	JENDL-2 JENDL-1 68DIYADEENAM+ 73WASSON+ 76MUSGROVE+
29.84 29.8 29.4 29.8 29.840± 0.01	0 0 0 0 0	0.5 0.5 0.5 0.5	37000 ±3600 37000.0 #47000.0 #37000.0±3600.0	174 ±31 199.0	174 ±26 199.0 ±20.0 148 ±20	GT = 37199.0 GNO= 210.0 ±20.0	JENDL-2 JENDL-1 68DIYADEENAM+ 73WASSON+ 76MUSGROVE+
30.08 30.1 30.1 30.080± 0.01	1 1 1 1	1.5 1.5	315 ±16 315.0 #630.0 ±32.0	429 ±47 242.0	363 ±35 343.0 ±35.0 423 ±60	GT = 557.0 NGH= 60.0 ±30.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
30.34 30.3 30.3 30.340± 0.01	1 1 1 1	0.5 0.5	5600 ±800 5600.0 #5600.0 ±800.0	134 ±23 127.0 127.0 ±16.0	130 ±13 124.0 ±15.0	GT = 5727.0 NGH= 530.0 ±70.0	JENDL-2 JENDL-1 73WASSON+ 76MUSGROVE+
31.13 31.1 30.8 31.1 31.130± 0.01	0 0 0 0 1	0.5 0.5 0.5 0.5	57000 ±3000 57000.0 #89999.9 #57000.0±3000.0	271 ±19 260.0	270 ±13 260.0 ±30.0 168 ±40 287 ±40	GT = 57260.0 GNO= 320.0 ±20.0	JENDL-2 JENDL-1 68DIYADEENAM+ 73WASSON+ 76MUSGROVE+
31.22 31.220± 0.02	0 0	0.5	20000	105.5 ±20 105 ±20	105 ±20 105 ±20		JENDL-2 76MUSGROVE+
32.59 32.1 32.590± 0.01	1 1 1	1.5	17400 ±3000 #22000.0	568 ±80	1100 ±150		JENDL-2 68DIYADEENAM+ 76MUSGROVE+
33.49 33.490± 0.01	0 0	0.5	500	91 ±15 91 ±15	77 ±10 77 ±10		JENDL-2 76MUSGROVE+
34.46 34.460± 0.01	1 1	1.5	5500	148 ±30 148 ±30	288 ±40 288 ±40		JENDL-2 76MUSGROVE+
34.67 34.670± 0.01	0 0	0.5	5000	158 ±30 158 ±30	153 ±30 153 ±30		JENDL-2 76MUSGROVE+
34.63 34.3 34.630± 0.01	1 1 1	1.5	5000 #45000.0	268 ±50	508 ±65 508 ±65		JENDL-2 68DIYADEENAM+ 76MUSGROVE+
35.50 35.500± 0.01	1 1	0.5	1000	211 ±40 211 ±40	174 ±30 174 ±30		JENDL-2 76MUSGROVE+
35.74 35.740± 0.01	0 0	0.5	2470 ±470	(200) 197 ±40	185 ±30 185 ±30		JENDL-2 76MUSGROVE+
36.00 36.000± 0.01	1 1	0.5	500 ±90	(425)	230 ±35 230 ±35		JENDL-2 76MUSGROVE+
36.48 36.2 36.480± 0.01	1 1 1	1.5	20600 ±3600 #100000	524 ±80	1022 ±150 1022 ±150		JENDL-2 68DIYADEENAM+ 76MUSGROVE+
37.06 37.060± 0.01	1 1	1.5	1000	239 ±40 239 ±40	386 ±60 386 ±60		JENDL-2 76MUSGROVE+
37.71 37.710± 0.01	0 0	0.5	30000	149 ±25 149 ±25	148 ±25 148 ±25		JENDL-2 76MUSGROVE+
37.97 37.970± 0.01	1 1	0.5	456 ±86	(425)	220 ±35 220 ±35		JENDL-2 76MUSGROVE+
38.465 37.8 38.465± 0.01	1 1 1	1.5	2000 ±350 #30000.0	730	1070 ±150 1070 ±150		JENDL-2 68DIYADEENAM+ 76MUSGROVE+
39.12 39.120± 0.01	1 1	0.5	3000	222 ±50 222 ±50	207 ±30 207 ±30		JENDL-2 76MUSGROVE+
40.22 39.8 40.220± 0.01	1 0 1	1.5 0.5	7500 #65000.0	422 ±70	799 ±125 799 ±125		JENDL-2 68DIYADEENAM+ 76MUSGROVE+
40.36 40.360± 0.01	1 1	1.5	37000	273 ±50 273 ±50	542 ±65 542 ±65		JENDL-2 76MUSGROVE+
42.15 42.150± 0.01	1 1	0.5	147 ±26	(425)	109 ±16 109 ±16		JENDL-2 76MUSGROVE+
42.44 42.440± 0.01	1 1	1.5	330 ±63	(425)	373 ±60 373 ±60		JENDL-2 76MUSGROVE+
43.36 43.360± 0.01	1 1	1.5	106 ±30	(425)	170 ±30 170 ±30		JENDL-2 76MUSGROVE+

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
44.09 44.090± 0.01	1 1	1.5) (1.5)	228 ±38	(425)	297 ±40 297 ±40		JENDL-2 76MUSGROVE+
44.70 44.700± 0.01	1	1.5	150 ±28	(425)	221 ±35 221 ±35		JENDL-2 76MUSGROVE+
45.01 45.010± 0.01	1	0.5	312 ±60	(425)	180 ±30 180 ±30		JENDL-2 76MUSGROVE+
45.35 45.350± 0.01	1	0.5	364 ±67	(425)	196 ±30 186 ±30		JENDL-2 76MUSGROVE+
46.26 46.3 46.260± 0.01	1 1 1	1.5) (1.5)	4000 ±700 30000.0	450	808 ±125 808 ±125		JENDL-2 6801VADEENAM+ 76MUSGROVE+
46.61 46.610± 0.01	1 1	1.5) (1.5)	310 ±60	(425)	358 ±60 358 ±60		JENDL-2 76MUSGROVE+
47.15 47.150± 0.01	1	0.5	443 ±76	(425)	217 ±30 217 ±30		JENDL-2 76MUSGROVE+
47.71 47.710± 0.01	1 1	1.5) (1.5)	640 ±100	(425)	511 ±60 511 ±60		JENDL-2 76MUSGROVE+
47.93 48.5 47.930± 0.01	0 0 0	0.5 0.5	50000 ±25000 20000.0	113 ±20 113 ±20	113 ±20 113 ±20		JENDL-2 6801VADEENAM+ 76MUSGROVE+
48.77 48.770± 0.01	1	0.5	630 ±95	(425)	236 ±35 236 ±35		JENDL-2 76MUSGROVE+
49.87 49.870± 0.01	1	0.5	760 ±150	(425)	272 ±45 272 ±45		JENDL-2 76MUSGROVE+
50.18 49.7 50.180± 0.01	1 0 1	1.5 0.5) (1.5)	3150 ±530 50000.0	(425)	749 ±100 749 ±100		JENDL-2 6801VADEENAM+ 76MUSGROVE+

A.2 Molybdenum-94

ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
0.1088 0.1088 0.1088	1 0	0.5 0.5	0.18 ± 0.02 0.16 0.16 ± 0.02	175 193.0	0.16 ± 0.02	GT = 193.15	JENDL-2 JENDL-1 71WEIGMANN+
1.0517 1.0517 1.0517	1 1	0.5 1.5	6.2 ± 0.6 3.05 6.1 ± 0.6	175 193.0	6.0 ± 0.6	GT = 196.05	JENDL-2 JENDL-1 71WEIGMANN+
1.5418 1.5418 1.5418	0 0 0	0.5 0.5	759 ± 335 1100.0 759 ± 337) ^a 149 ± 30	149 ± 30 140.0	125 ± 12	GT = 1240.0	JENDL-2 JENDL-1 71WEIGMANN+
1.6604 1.6604 1.6604	1 0	0.5 0.5	12.5 ± 2.3 12.4 12.4 ± 1.7	175 200.0	11.7 ± 1.5	GT = 212.4	JENDL-2 JENDL-1 71WEIGMANN+
2.1792 2.1784 2.1792	1 1	1.5 1.5	296 ± 42 191.5	175 280.0	220 ± 22	GT = 451.5	JENDL-2 JENDL-1 71WEIGMANN+
3.163 3.1592 3.163 ± 0.003	1	1.5	127 ± 14	175	147 ± 7 155 ± 19 141 ± 16		JENDL-2 71WEIGMANN+ 76MUSGROVE+
3.575 3.5714 3.575 ± 0.003	1	1.5	158 ± 28	175	166 ± 24 195 ± 19 146 ± 16		JENDL-2 71WEIGMANN+ 76MUSGROVE+
3.602 3.599 3.5988 3.602 ± 0.003	0 1 0	0.5 0.5	2500 ± 500 1130.0 1086 ± 645) ^a 2500 ± 500	137 ± 32 167.0 167 ± 48 121 ± 15	130 ± 15 145 ± 13 115 ± 13	GT = 1297.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
4.368 4.3627 4.3643 4.368 ± 0.003	1 1 1	1.5 1.5	4000 ± 1000 254.0 4000 ± 1000	147 ± 50 180.0	285 ± 60 260 ± 24 415 ± 55	GT = 444.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
4.622 4.6154 4.6167 4.622 ± 0.003	0 1 0	0 0.5	588 ± 75 811.0 611 ± 73) ^a 526 ± 75	163 ± 30 192.0 192 ± 19 142 ± 25	124 ± 14 140 ± 14 111 ± 13	GT = 703.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
4.928 4.9167 4.9167 4.928 ± 0.003	1 1	0.5 0.5	1090 ± 310 1090.0	204 ± 58 200.0	172 ± 6 168 ± 14 180 ± 20	GT = 1290.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
5.135 5.1240 5.135 ± 0.003	1 1	1.5	1500 300) ^a	169 ± 23 (-140)	159 ± 15 175 ± 17 145 ± 16		JENDL-2 71WEIGMANN+ 76MUSGROVE+
5.433 5.383 5.433 ± 0.003	0 0 0	0.5 0.5	15300 ± 2000 15300.0 15300 ± 2000	114 ± 20 200.0 114 ± 13	113 ± 13 113 ± 13	GT = 15500.0	JENDL-2 JENDL-1 76MUSGROVE+
5.454 5.454 ± 0.003	1 1	0.5	8.4 ± 2.3 8 ± 2	175	8 ± 2 8 ± 2		JENDL-2 76MUSGROVE+
5.953 5.953 ± 0.003	1	0.5	109 ± 18	175	67 ± 9 67 ± 9		JENDL-2 76MUSGROVE+
6.030 6.030 ± 0.004	1 1	0.5	12 ± 2 12 ± 2	175	11 ± 2 11 ± 2		JENDL-2 76MUSGROVE+
6.407 6.407 ± 0.004	1 1	0.5	35 ± 8 35 ± 8	140 ± 38	28 ± 4 28 ± 4		JENDL-2 76MUSGROVE+
6.718 6.718 ± 0.004	0 0	0.5	1000 ± 750 1000 ± 750	131 ± 30 132 ± 30	116 ± 15		JENDL-2 76MUSGROVE+
6.960 6.960 ± 0.004	1 1	0.5	35 ± 8 35 ± 8	170 ± 45	29 ± 4 29 ± 4		JENDL-2 76MUSGROVE+
7.128 7.128 ± 0.004	1 1	0.5	9.5 ± 2.3 10 ± 2	175	9 ± 2 9 ± 2		JENDL-2 76MUSGROVE+
7.865 7.865 ± 0.004	0 0	0.5	1000 ± 750 1000) ^a	116 ± 20 116 ± 20	104 ± 13 104 ± 13		JENDL-2 76MUSGROVE+
8.275 8.275 ± 0.005	1 1	1.5	2000 4000) ^a	150 ± 30 150 ± 30	279 ± 32 279 ± 32		JENDL-2 76MUSGROVE+
8.608 8.608 ± 0.004	1 1	1.5	500 1000) ^a	230 ± 37 230 ± 50	315 ± 40 315 ± 40		JENDL-2 76MUSGROVE+
8.660 8.660 ± 0.004	1	0.5	610 ± 95	175	136 ± 16 136 ± 16		JENDL-2 76MUSGROVE+
9.590 9.590 ± 0.005	1 1	1.5	500 1000) ^a	184 ± 29	269 ± 32 269 ± 32		JENDL-2 76MUSGROVE+
9.705 9.705 ± 0.005	0 0	0.5	500) ^a	139 ± 22 139 ± 30	109 ± 13 109 ± 13		JENDL-2 76MUSGROVE+
9.813 9.813 ± 0.004	1	1.5	192 ± 28	175	183 ± 20 183 ± 20		JENDL-2 76MUSGROVE+
10.225 10.225 ± 0.006	1 1	1.5	3000 ± 1500 6000 ± 3000) ^a	168 ± 67 168 ± 30	319 ± 40 319 ± 40		JENDL-2 76MUSGROVE+
10.535 10.535 ± 0.006	1	1.5	256 ± 43	175	208 ± 28 208 ± 28		JENDL-2 76MUSGROVE+
10.752 10.752 ± 0.006	0 0	0.5	25000 ± 5000 25000 ± 5000) ^a	91 ± 21 92 ± 10	91 ± 10 91 ± 10		JENDL-2 76MUSGROVE+

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)		GAMMA WIDTH (MILLI-EV)		MWS (MILLI-EV)		MISCELLANEOUS	REFERENCE
10.775 10.775± 0.006	1 1) (1.5)	1.5	6690	±1000	175		341 341	±40 ±40		JENDL-2 76MUSGROVE+
11.420 11.420± 0.007	1 1) (1.5)	1.5	382	±61	175		240 240	±30 ±30		JENDL-2 76MUSGROVE+
11.815 11.815± 0.007	1 1) (1.5)	1.5	1800	±300	175		319 319	±40 ±40		JENDL-2 76MUSGROVE+
12.205 12.205± 0.01	1 1) (1.5)	1.5	250	±45	175		208 208	±30 ±30		JENDL-2 76MUSGROVE+
12.280 12.280± 0.01	1	0.5	304	±49	175		111 111	±14 ±14		JENDL-2 76MUSGROVE+
12.980 12.980± 0.01	1	0.5	38	± 6	175		31 31	± 4 ± 4		JENDL-2 76MUSGROVE+
13.415 13.415± 0.01	1	0.5	506	±80	175		130 130	±18 ±18		JENDL-2 76MUSGROVE+
13.525 13.525± 0.01	0 0	0.5	20000 20000	±5000 ±5000	151 151	±42 ±20	150 150	±18 ±18		JENDL-2 76MUSGROVE+
13.705 13.705± 0.01	1 1)	1.5	1160	±180	175		152 152	±18 ±18		JENDL-2 76MUSGROVE+
13.990 13.990± 0.01	1 1) (1.5)	1.5	3500		(300)		553 553	±65 ±65		JENDL-2 76MUSGROVE+
14.110 14.110± 0.01	1	0.5	283	±44	175		105 105	±14 ±14		JENDL-2 76MUSGROVE+
15.34 15.340± 0.01	1	0.5	223	±37	175		98 98	±13 ±13		JENDL-2 76MUSGROVE+
15.705 15.705± 0.01	0)	0.5	2200	±320	(160)		149 149	±18 ±18		JENDL-2 76MUSGROVE+
16.765 16.765± 0.01	1	0.5	74	±14	175		52 52	± 8 ± 8		JENDL-2 76MUSGROVE+
17.095 17.095± 0.01	0)	0.5	9000	±900	135		133 133	±16 ±16		JENDL-2 76MUSGROVE+
17.320 17.320± 0.01	1	0.5	463	±74	175		127 127	±16 ±16		JENDL-2 76MUSGROVE+
17.390 17.390± 0.01	1	0.5	169	±26	175		86 86	±10 ±10		JENDL-2 76MUSGROVE+
17.520 17.520± 0.01	1 1)	0.5	49	± 9	175		38 38	± 6 ± 6		JENDL-2 76MUSGROVE+
17.805 17.805± 0.01	1 1) (1.5)	1.5	1000 2000		214 215	±95 ±60	353 353	±45 ±45		JENDL-2 76MUSGROVE+
18.155 18.155± 0.01	0 0	0.5	20000 20000	±5000 ±5000	207 207	±60 ±30	205 205	±30 ±30		JENDL-2 76MUSGROVE+
18.336 18.336± 0.01	1	0.5	521	±95	175		131 131	±20 ±20		JENDL-2 76MUSGROVE+
18.495 18.495± 0.01	1 1) (1.5)	1.5	315	±53	175		225 225	±30 ±30		JENDL-2 76MUSGROVE+
18.875 18.875± 0.01	1 1) (1.5)	1.5	1000 2000		203 205	±34 ±60	337 337	±45 ±45		JENDL-2 76MUSGROVE+
19.225 19.225± 0.01	1 1) (1.5)	1.5	1000 2000		217 215	±35 ±60	356 356	±45 ±45		JENDL-2 76MUSGROVE+
19.700 19.700± 0.01	1	1.5	190	±32	175		182 182	±25 ±25		JENDL-2 76MUSGROVE+
20.075 20.075± 0.01	1	0.5	403	±77	175		122 122	±20 ±20		JENDL-2 76MUSGROVE+
20.255 20.255± 0.01	0 0	0.5	30000 30000	±10000 ±10000	177 177	±64 ±30	176 176	±25 ±25		JENDL-2 76MUSGROVE+
20.67 20.670± 0.01	1 1) (1.5)	1.5	1030	±170	175		299 299	±40 ±40		JENDL-2 76MUSGROVE+

A.3 Molybdenum-95

ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-20	0	2	58.3	150		COM= M-L-B-W	JENDL-2
44.9	0	3.0	191 ± 1	156 ± 10	50 ± 3		JENDL-2
44.9	0	3.0	190.3	154.0		GT = 344.3	JENDL-1
45.0 ± 0.6	0		174.0 ± 10.0	(260.0 ± 80.0)		GNO= 26.0 ± 1.6	55SHARVEY+ 62JACKSON 67MUGHABGHAB+ 68COCEVA+ 69JULIEN+
45.0	0	3.0					
45.0	0	3.0					
45.1	0	3.0					
44.6	0	3.0	285.0 ± 12.0	120.0 ± 25.0		WGM= 111.0 ± 5.0	
44.7 ± 0.3			191.0 ± 10.0	180.0 ± 15.0		GT = 305.0 ± 15.0	69SHWE+ 70WETZEL+ 71WEIGMANN+
45.1	0	3.0					
44.90	0	3	222 ± 10	160 ± 10	50 ± 3		
110.5	1	1.0	0.36 ± 0.08	(180)	0.09 ± 0.02		JENDL-2
110.5	1	1.0	0.36	180.0		GT = 180.36	JENDL-1
107.0	1						62JACKSON
110.0	1	1.0					67MUGHABGHAB+ 69SHWE+ 71WEIGMANN+
110.3 ± 0.3			0.137 ± 0.02	310.0 ± 80.0			
110.50	1	1	0.180 ± 0.040		0.090 ± 0.020		
118.0	1	2.0	0.31 ± 0.05	(180)	0.13 ± 0.02		JENDL-2
118.0	1	2.0	0.151	200.0		GT = 200.151	JENDL-1
118.0							63JACKSON
117.9		2.0					68COCEVA+ 69SHWE+ 71WEIGMANN+
117.9 ± 0.3			0.151 ± 0.012	200.0 ± 120.0			
118.00			0.260 ± 0.040		0.130 ± 0.020		
159.5	0	3.0	14.1 ± 1.7	(150)	7.5 ± 0.5		JENDL-2
159.0	0	3.0	12.0	260.0		GT = 272.0	JENDL-1
162.0 ± 4.0	0		13.6 ± 1.9	(260.0 ± 80.0)		GNO= 1.1 ± 0.2	55SHARVEY+ 62JACKSON 67MUGHABGHAB+ 68COCEVA+ 69JULIEN+
160.0	0	3.0					
159.0	0	3.0					
159.3	0	3.0					
159.1	0	3.0	16.0 ± 1.2	135.0 ± 20.0		WGM= 9.1 ± 0.6	
159.6 ± 0.4			12.0 ± 1.0	260.0 ± 60.0		GT = 150.0 ± 20.0	69SHWE+
159.3				(180.0)			
159.49	0	3	16.4 ± 1.2		7.5 ± 0.5		70WETZEL+ 71WEIGMANN+
218.3	1	2.5	1.96 ± 0.25	(180)	0.97 ± 0.08		JENDL-2
218.28	1	2.5	1.1	180.0		GT = 181.1	JENDL-1
215.0							62JACKSON
217.9 ± 0.4			1.1 ± 0.11				69SHWE+ 71WEIGMANN+
218.28			1.960 ± 0.154		0.970 ± 0.077		
245.8	1	2.5	0.48 ± 0.07	(180)	0.24 ± 0.03		JENDL-2
245.85	1	2.5	0.48	180.0		GT = 180.48	JENDL-1
245.7 ± 0.6			0.52 ± 0.05				69SHWE+ 71WEIGMANN+
245.84			0.480 ± 0.066		0.240 ± 0.033		
263.6	1	2.5	1.63 ± 0.22	(180)	0.81 ± 0.07		JENDL-2
263.59	1	2.5	1.63	180.0		GT = 181.63	JENDL-1
263.7 ± 0.7			1.2 ± 0.3				69SHWE+ 71WEIGMANN+
263.59			1.63 ± 0.144		0.810 ± 0.072		
331.0	1	2.5	3.46 ± 0.87	(180)	1.70 ± 0.39		JENDL-2
331.02	1	2.5	3.46	180.0		GT = 183.46	JENDL-1
330.0							63JACKSON
331.2 ± 1.0			2.6 ± 1.2				69SHWE+ 71WEIGMANN+
331.02			3.46 ± 0.782		1.700 ± 0.390		
358.6	0	3.0	288 ± 83	144 ± 42	56 ± 4		JENDL-2
358.59	0	3.0	288.0	142.0		GT = 430.0	JENDL-1
358.4		3.0					68COCEVA+ 69SHWE+ 70WETZEL+ 71WEIGMANN+
358.5 ± 0.9			290.0 ± 30.0				
358.4	0	3.0					
358.59	0	3	336 ± 96	166 ± 42	56 ± 4		
418.2	1	2.5	1.026 ± 0.18	(180)	0.51 ± 0.07		JENDL-2
418.2	1	2.5	1.24	180.0		GT = 181.24	JENDL-1
418.20			1.024 ± 0.142		0.510 ± 0.071		71WEIGMANN+
469.7	1	2.5	11.7 ± 1.4	(180)	5.5 ± 0.4		JENDL-2
469.7	1	2.5	11.6	180.0		GT = 191.6	JENDL-1
468.0 ± 1.2			9.0 ± 2.0				69SHWE+ 71WEIGMANN+
469.69			11.6 ± 0.8		5.5 ± 0.4		
554.4	0	2.0	157 ± 25	(150)	32 ± 3		JENDL-2
554.4	0	2.0	107.0	180.0		GT = 287.0	JENDL-1
554.3		2.0					68COCEVA+ 69SHWE+ 70WETZEL+ 71WEIGMANN+
554.6 ± 1.6			90.0 ± 15.0	(180.0)			
554.3	0	2.0					
554.40	0	2			32 ± 3		
570.0 ± 30.0	0		120.0 ± 60.0	(260.0 ± 80.0)		GNO= 5.0 ± 3.0	55SHARVEY+ 63JACKSON
570.0							
595.7	1	2.5	0.844 ± 0.25	(180)	0.42 ± 0.12		JENDL-2
595.67	1	2.5	0.842	180.0		GT = 180.842	JENDL-1
595.67			0.842 ± 0.234		0.420 ± 0.117		71WEIGMANN+
630.0	1	2.5	22.75 ± 2.65	(180)	10.1 ± 0.6		JENDL-2
630.01	1	2.5	22.6	180.0		GT = 202.6	JENDL-1
630.0 ± 2.0			13.0 ± 4.0				69SHWE+ 71WEIGMANN+
630.01			22.6 ± 1.8		10.1 ± 0.6		
661.8	0	3.0	15.5 ± 1.8	(150)	8.2 ± 0.5		JENDL-2
661.78	0	3.0	5.25	180.0		GT = 165.25	JENDL-1
661.5 ± 2.1			84.0 ± 6.0	(180.0)			69SHWE+ 71WEIGMANN+
661.78	0	3	18.0 ± 1.4		8.2 ± 0.5		
680.2	0	3.0	711 ± 255	144 ± 53	70 ± 5		JENDL-2
680.19	0	3.0	711.0	144.0		GT = 855.0	JENDL-1
680.5		3.0					68COCEVA+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
681.2 ± 2.5 680.19	0	3	1100.0 ± 200.0 (830 ± 298)	(180.0) 168 ± 24	70 ± 5		69SHWE+ 71WEIGMANN+
702.8 702.77 700.0 ± 40.0 702.77	1 1 0	2.5 2.5	2.927 ± 0.43 2.926 740.0 ± 130.0 2.926 ± 0.316	(180) 180.0 (260.0 ± 80.0)	1.44 ± 0.16 1.440 ± 0.158	GT = 182.926 GNO = 28.0 ± 5.0	JENDL-2 JENDL-1 69SHARVEY+ 71WEIGMANN+
708.3 708.25 708.25	1 1	2.5 2.5	13.5 ± 1.6 13.4 13.4 ± 0.8	(180) 180.0	6.3 ± 0.4 6.3 ± 0.4	GT = 193.4	JENDL-2 JENDL-1 71WEIGMANN+
745.5 745.46 744.6 ± 2.4 745.46	1 1	2.5 2.5	7.94 ± 1.01 7.8 3.2 ± 0.6 7.8 ± 0.6	(180) 180.0	3.8 ± 0.3 3.8 ± 0.3	GT = 187.8	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
769.8 769.0 770.0 771.0 ± 2.8 769.83	0 0 0 0	3.0 3.0 3.0 3	23.8 ± 2.8 276.0 7.6 ± 0.8 27.6 ± 2.5	(150) 180.0	12.0 ± 0.7 12.0 ± 0.7	GT = 456.0	JENDL-2 JENDL-1 68COCEVA+ 69SHWE+ 71WEIGMANN+
898.7 898.74 898.0 899.0 ± 5.0 898.74	0 0 0 0	2.0 2.0 2.0 2	283 ± 36 283.0 300.0 ± 50.0 (236 ± 30)	187 ± 27 184.0 (180.0) 154 ± 18	47 ± 3 47 ± 3	GT = 467.0	JENDL-2 JENDL-1 68COCEVA+ 69SHWE+ 71WEIGMANN+
932.1 932.13 932.13	1 1	2.5 2.5	3.51 ± 0.66 3.512 3.506 ± 0.650	(180) 180.0	1.72 ± 0.28 1.720 ± 0.275	GT = 183.512	JENDL-2 JENDL-1 71WEIGMANN+
956.5 956.5 956.50	1 1	2.5 2.5	1.533 ± 0.71 1.53 1.532 ± 0.684	(180) 180.0	0.76 ± 0.34 0.760 ± 0.342	GT = 181.53	JENDL-2 JENDL-1 71WEIGMANN+
980.7 980.73 983.0 ± 7.0 980.73	0 0 0	2.0 2.0 2	58.3 ± 7.4 43.0 25.0 ± 3.0 43.4 ± 6.2	(150) 180.0 (180.0)	17.5 ± 1.1 17.5 ± 1.1	GT = 223.0	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
1011.1 1011.1 1010.0 1011.1	1 1	2.5 2.5	12.6 ± 1.7 12.6 12.6 ± 1.0	(180) 180.0	5.9 ± 0.5 5.9 ± 0.5	GT = 192.6	JENDL-2 JENDL-1 63JACKSON 71WEIGMANN+
1023.8 1023.0 1025.0 1027.0 ± 14.0 1023.8	0 0 0 0	3.0 3.0 3.0 3	115 ± 15 80.0 110.0 ± 20.0	(150) 180.0 (180.0)	38 ± 3 38 ± 3	GT = 260.0	JENDL-2 JENDL-1 68COCEVA+ 69SHWE+ 71WEIGMANN+
1035.7 1035.7 1035.7	1 1	2.5 2.5	13.3 ± 1.7 13.2 13.2 ± 1.0	(180) 180.0	6.2 ± 0.5 6.2 ± 0.5	GT = 193.2	JENDL-2 JENDL-1 71WEIGMANN+
1059.2 1059.2 1059.2	1 1	2.5 2.5	9.25 ± 1.12 9.2 9.2 ± 0.8	(180) 180.0	4.4 ± 0.3 4.4 ± 0.3	GT = 189.2	JENDL-2 JENDL-1 71WEIGMANN+
1122.3 1122.3 1122.3	1 1	2.5 2.5	4.03 ± 0.8 4.0 4.0 ± 0.6	(180) 180.0	1.97 ± 0.32 1.970 ± 0.316	GT = 184.0	JENDL-2 JENDL-1 71WEIGMANN+
1144.6 1144.6 1145.0 1145.0 ± 16.0 1144.6	0 0 0 0	2.0 2.0 2.0 2	300 ± 60 300.0 300.0 ± 60.0 (250 ± 50)	175 ± 38 173.0 (180.0) 144 ± 26	46 ± 4 46 ± 4	GT = 473.0	JENDL-2 JENDL-1 68COCEVA+ 69SHWE+ 71WEIGMANN+
1170.5 1170.5 1170.5	1 1	2.5 2.5	20.7 ± 2.6 20.6 20.6 ± 1.8	(180) 180.0	9.3 ± 0.7 9.3 ± 0.7	GT = 200.6	JENDL-2 JENDL-1 71WEIGMANN+
1203.4 1203.4 1203.4	0 0 0	3.0 3.0 3	220 ± 30 177.0	(150) 180.0	52 ± 4 52 ± 4	GT = 357.0	JENDL-2 JENDL-1 71WEIGMANN+
1296.9 1296.9 1296.9	1 1	2.5 2.5	11.0 ± 1.5 11.0 11 ± 1	(180) 180.0	5.2 ± 0.5 5.2 ± 0.5	GT = 191.0	JENDL-2 JENDL-1 71WEIGMANN+
1340.7 1340.7 1343.0 ± 21.0 1340.7	1 1	2.5 2.5	91 ± 13 90.0 47.0 ± 8.0	(180) 180.0	30 ± 2 30 ± 2	GT = 270.0	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
1360.6 1360.6 1360.6	1 1	2.5 2.5	6.0 ± 1.0 6.0 6.0 ± 0.8	(180) 180.0	2.9 ± 0.4 2.9 ± 0.4	GT = 186.0	JENDL-2 JENDL-1 71WEIGMANN+
1386.7 1386.7 1386.7	1 1	2.5 2.5	11.7 ± 1.6 11.6 11.6 ± 1.0	(180) 180.0	5.5 ± 0.5 5.5 ± 0.5	GT = 191.6	JENDL-2 JENDL-1 71WEIGMANN+
1419.3 1419.0 1420.0 ± 22.0 1419.3	0 0	2.5 2.5	820 ± 70 620.0 620.0 ± 70.0 (620 ± 70)	171 ± 25 180.0 (180.0) 170 ± 12	67 ± 6 67 ± 6	GT = 800.0	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
1437.0 1437.0 1437.0	1 1	2.5 2.5	15.7 ± 2.0 15.5 15.5 ± 1.4	(180) 180.0	7.2 ± 0.6 7.2 ± 0.6	GT = 195.6	JENDL-2 JENDL-1 71WEIGMANN+
1495.5	0	2.5	1440 ± 200	(180)	80 ± 9		JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1495.5 1495.5	0	2.5	1440.0	180.0	80 ± 9	GT = 1620.0	JENDL-1 71WEIGMANN+
1570.0 1570.0 1570.0	1 1	2.5 2.5	12.2 ± 1.5 12.0 ^a 12.0 ± 1.0	(180) 180.0	5.7 ± 0.4 5.7 ± 0.4	GT = 192.0	JENDL-2 JENDL-1 71WEIGMANN+
1576.8 1576.8 1576.8	1 1	2.5 2.5	10.6 ± 1.4 10.4 ^a 10.4 ± 0.8	(180) 180.0	5.0 ± 0.8 5.0 ± 0.4	GT = 190.4	JENDL-2 JENDL-1 71WEIGMANN+
1589.5 1589.5 1589.5	0 0	2.5 2.5	715 ± 100 398.0	(150) 180.0	62 ± 5 62 ± 5	GT = 578.0	JENDL-2 JENDL-1 71WEIGMANN+
1677.4 1677.4 1677.4	0 0	2.5 2.5	283 ± 36 215.0	(150) 180.0	49 ± 4 49 ± 4	GT = 395.0	JENDL-2 JENDL-1 71WEIGMANN+
1704.1 1704.0 1704.1	1 1	2.5 2.5	42.8 ± 6.4 42.5 ^a 42.8 ± 6.4	(180) 180.0	17.3 ± 1.3 17.3 ± 1.3	GT = 222.5	JENDL-2 JENDL-1 71WEIGMANN+
1766.1 1766.1 1766.1	0 0	2.5 2.5	2100 ± 280 630.0	(150) 180.0	70 ± 6 70 ± 6	GT = 810.0	JENDL-2 JENDL-1 71WEIGMANN+
1788.0 1788.0 1788.0	1 1	2.5 2.5	63.6 ± 14 64.0 ^a 62 ± 14	(180) 180.0	23.5 ± 1.8 23.5 ± 1.8	GT = 244.0	JENDL-2 JENDL-1 71WEIGMANN+
1841.7 1841.7 1841.7	1 1	2.5 2.5	38.9 ± 5.2 38.8 ^a 38.8 ± 5.2	(180) 180.0	16.0 ± 1.2 16.0 ± 1.2	GT = 218.8	JENDL-2 JENDL-1 71WEIGMANN+
1853.3 1853.3 1853.3	1 1	2.5 2.5	5.42 ± 1.0 5.4 ^a 5.4 ± 0.8	(180) 180.0	3.1 ± 0.4 3.1 ± 0.4	GT = 188.4	JENDL-2 JENDL-1 71WEIGMANN+
1925.1 1925.1 1925.1	1 1	2.5 2.5	36 ± 4.6 36.2 ^a 36.0 ± 4.6	(180) 180.0	15.0 ± 1.2 15.0 ± 1.2	GT = 216.2	JENDL-2 JENDL-1 71WEIGMANN+
1950.2 1950.2 1950.2	0 0	2.5 2.5	392 ± 112 392.0 (392 ± 112)	145 ± 43 144.0 ^b 144 ± 26	53 ± 4 53 ± 4	GT = 536.0	JENDL-2 JENDL-1 71WEIGMANN+
1961.3 1961.0 1961.3	1 1	2.5 2.5	27.7 ± 3.4 27.6 ^a 27.6 ± 2.8	(180) 180.0	12.0 ± 1.9 12.0 ± 0.9	GT = 207.6	JENDL-2 JENDL-1 71WEIGMANN+
2048.1 2048.1 2048.1	0 0	2.5 2.5	413 ± 50 283.0	(150) 180.0	55 ± 4 55 ± 4	GT = 463.0	JENDL-2 JENDL-1 71WEIGMANN+
2112.2 2112.2 2112.2	1 1	2.5 2.5	60.4 ± 7.7 60.0 ^a 60 ± 12	(180) 180.0	22.6 ± 1.8 22.6 ± 1.8	GT = 240.0	JENDL-2 JENDL-1 71WEIGMANN+
2130.1 2130.1	0	2.5	1470 ± 180	(150)	68 ± 5 68 ± 5		JENDL-2 71WEIGMANN+
2140.8 2140.8	1	2.5	34.3 ± 4.2 ^a 34.2 ± 4.2	(180)	14.4 ± 1.1 14.4 ± 1.1		JENDL-2 71WEIGMANN+

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
0.1134 0.1134 0.1135± 0.0003 0.11341	1 1 1	0.5 1.5	0.451± 0.04 0.225 0.504± 0.05 0.451± 0.040	136 119.0 530.0 ±100.0	0.45 ± 0.04	GT = 119.225	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
0.1314 0.1314 0.133± 0.002 0.13056 0.1313± 0.0004 0.13140	0 0 0 0 0	0.5 0.5 0.5	326 ±27 290.0 200.0 ±15.0 290.0 ±15.0 290.0 ±15.0 244.0 ±12.0 326 ±27	83 ± 5 100.0 (260.0 ±80.0) 25.0 ±20.0 330.0 ±50.0 82 ± 5	66 ± 4	GT = 390.0 GND= 17.3 ± 1.3 GT = 315.0 ±15.0	JENDL-2 JENDL-1 55SHARVEY+ 69JULIEN+ 69SHWE+ 71WEIGMANN+
0.420 0.419 0.41914	1 0	0.5 0.5	6.06 ± 0.74 6.0 5.0 ± 0.4	136 119.0	5.8 ± 0.4 5.8 ± 0.4	GT = 125.0	JENDL-2 JENDL-1 71WEIGMANN+
0.959 0.9584 0.95841	1 0	0.5 0.5	2.75 ± 0.49 2.7 2.7 ± 0.4	136 119.0	2.7 ± 0.4 2.7 ± 0.4	GT = 121.7	JENDL-2 JENDL-1 71WEIGMANN+
1.259 1.257 1.2570	1 0	0.5 0.5	2.24 ± 0.38 2.2 2.2 ± 0.3	136 119.0	2.2 ± 0.3 2.2 ± 0.3	GT = 121.2	JENDL-2 JENDL-1 71WEIGMANN+
1.498 1.4965 1.4960	1 0	0.5 0.5	10.1 ± 1.3 9.9 9.9 ± 1.0	136 119.0	9.4 ± 0.7 9.4 ± 0.7	GT = 128.9	JENDL-2 JENDL-1 71WEIGMANN+
2.084 2.0806 2.0806	1 0	0.5 0.5	7.5 ± 1.3 7.4 7.4 ± 1.1	136 119.0	7.1 ± 1.0 7.1 ± 1.0	GT = 126.4	JENDL-2 JENDL-1 71WEIGMANN+
2.366 2.3632 2.3626	0 0 0	0.5 0.5	3829 ±294 4000.0 3829 ±294	164 ±15 164.0 164 ±15	158 ±15 158 ±15.0	GT = 4164.0	JENDL-2 JENDL-1 71WEIGMANN+
2.488 2.4842 2.4844	1 0	0.5 0.5	34 ± 4 35.0 32 ± 8	136 119.0	27 ± 2 27.0 ± 2.0	GT = 154.0	JENDL-2 JENDL-1 71WEIGMANN+
2.784 2.7795	1	0.5	87 ± 9	136	45 ± 4 45 ± 4	JENDL-2 71WEIGMANN+	
3.286 3.286± 0.003	1 1	0.5	92 ±15	136	55 ± 7 55 ± 7	JENDL-2 76MUSGROVE+	
3.287 3.2823 3.2826 3.287± 0.005	0 0 0 0	0.5 0.5	8318 ±3470 9000.0 8333 ±3472 8318 ±3470	135 ±50 185.0 186 ±27 136 ±16	133 ± 7 182 ±27 133 ±15	GT = 9186.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
3.587 3.5722 3.5714 3.578± 0.004	0 0 0 0	0.5 0.5	8000 ±2000 3440.0 3440 ±724 8000 ±2000	99 ±25 105.0 105 ± 8 91 ±10	97.3 ± 5.8 102 ± 8 90 ±10	GT = 3545.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
3.764 3.7577 3.7574 3.764± 0.003	1 0 1	1.5 0.5	200 371.0 371 ±148 400	80 ± 9 158.0 156 ±61 88 ±20	114 ± 6 110 ± 9 123 ±14	GT = 527.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
4.326 4.3198 4.3173 4.326± 0.003	1 0	0.5 0.5	334 ±119 334.0 334 ±119 334 ±119	94 ±34 96.0 96 ±19 91 ±15	73 ± 2 75 ± 7 71 ± 8	GT = 430.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
4.420 4.4121 4.420± 0.003	1	0.5	252 ±26	136	88 ± 2 87 ± 8 91 ±11	JENDL-2 71WEIGMANN+ 76MUSGROVE+	
4.567 4.5585 4.5600 4.567± 0.003	1 0 1	0.5 0.5	52.7 ± 6.0 67.0	136 100.0	38 ± 2 40 ± 4 36 ± 4	GT = 167.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
4.953 4.9419 4.9419 4.953± 0.003	1 0 1	0.5 0.5	13.7 ± 3.4 20.2 20.2 ± 4.9 12 ± 1	136 119.0	12.5 ± 2.8 18.0 ± 3.9 11 ± 2	GT = 139.2	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+
5.385 5.374 5.385± 0.003	0 0	0.5	4000 ±1000 4000 ±1000	71 ±20 72 ±10	70 ± 8 70 ± 8	COM= DOUBLET	JENDL-2 71WEIGMANN+ 76MUSGROVE+
5.413 5.402 5.413± 0.003	1 1	0.5	117 ±18	136	63 ± 7 63 ± 7	COM= DOUBLET	JENDL-2 71WEIGMANN+ 76MUSGROVE+
5.619 5.611 5.619± 0.003	1 1	1.5	500 1000	125 ±13 133 ±35	200 ± 7 195 ±19 210 ±25	JENDL-2 71WEIGMANN+ 76MUSGROVE+	
5.800 5.784 5.800± 0.003	0 0	0.5	200 200	107 ±12 118 ±25	69.8 ± 2.8 68 ± 6 74 ± 9	JENDL-2 71WEIGMANN+ 76MUSGROVE+	
6.046 6.032 6.046± 0.004	1 1	1.5	1000 ±500 2000 ±1000	91 ±46 99 ±15	166 ±124 155 ±18 180 ±20	JENDL-2 71WEIGMANN+ 76MUSGROVE+	
6.570 6.560 6.570± 0.004	1 1	1.5	1180 ±190	136	244 ±32 220 ±25 287 ±35	JENDL-2 71WEIGMANN+ 76MUSGROVE+	
7.064	0	0.5	1000 ±200	136	120 ±20	JENDL-2	

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
7.051 7.054± 0.004					108 ±11 151 ±18		71 WEIGMANN+ 76 MUSGROVE+
7.382 7.382± 0.004	1 1	0.5	32 ± 6	136	25 ± 4 25 ± 4		JENDL-2 76 MUSGROVE+
7.741 7.741± 0.004	1 1	0.5	57 ± 9	136	40 ± 5 40 ± 5		JENDL-2 76 MUSGROVE+
7.776 7.776± 0.004	1 1	1.5 (1.5)	200 400	111 ±18 111 ±25	143 ±18 143 ±18		JENDL-2 76 MUSGROVE+
7.909 7.909± 0.004	0 0	0.5	3000 ±1000 3000 ±1000	96 ±34 96 ±12	93 ±10 93 ±10		JENDL-2 76 MUSGROVE+
7.951 7.951± 0.004	1 1	0.5 (0.5)	1000 1000	106 ±17 106 ±25	96 ±12 96 ±12		JENDL-2 76 MUSGROVE+
8.031 8.031± 0.004	0 0	0.5	2000 2000	82 ±13 82 ±10	79 ±10 79 ±10		JENDL-2 76 MUSGROVE+
8.334 8.334± 0.004	1 1	0.5 (0.5)	1000 1000	134 ±20 134 ±25	118 ±14 118 ±14		JENDL-2 76 MUSGROVE+
8.420 8.420± 0.004	1 1	1.5 (1.5)	1000 ±750 2000 ±1500	164 ±125 164 ±30	282 ±35 282 ±35		JENDL-2 76 MUSGROVE+
8.712 8.712± 0.004	1	0.5	525 ±82	136	108 ±13 108 ±13		JENDL-2 76 MUSGROVE+
9.090 9.092± 0.005	1 1	1.5 (1.5)	985 ±160	136	239 ±30 239 ±30		JENDL-2 76 MUSGROVE+
9.396 9.396± 0.005	1 1	1.5 (1.5)	8000 ±2000 16000 ±4000	151 ±43 151 ±20	296 ±40 296 ±40		JENDL-2 76 MUSGROVE+
9.700 9.700± 0.005	1 1	1.5 (1.5)	537 ±82	136	217 ±25 217 ±25		JENDL-2 76 MUSGROVE+
10.000 10.000± 0.005	0 0	0.5	20000 ±4000 20000 ±4000	120 ±30 120 ±15	119 ±14 119 ±14		JENDL-2 76 MUSGROVE+
10.112 10.112± 0.005	1 1	1.5 (1.5)	5000 ±1000	(160)	310 ±40 310 ±40		JENDL-2 76 MUSGROVE+
10.270 10.270± 0.005	1	0.5	408 ±63	136	102 ±12 102 ±12		JENDL-2 76 MUSGROVE+
10.864 10.864± 0.005	1 1	0.5	49 ± 8	136	36 ± 5 36 ± 5		JENDL-2 76 MUSGROVE+
10.928 10.928± 0.005	1 1	0.5	27.7 ± 4.6	136	23 ± 3 23 ± 3		JENDL-2 76 MUSGROVE+
11.075 11.075± 0.006	0	0.5	1750 ±270	114	107 ±13 107 ±13		JENDL-2 76 MUSGROVE+
11.500 11.500± 0.006	1 1	0.5	23.4 ± 4.2	136	20 ± 3 20 ± 3		JENDL-2 76 MUSGROVE+
11.916 11.916± 0.006	1 1	1.5 (1.5)	470 ±70	136	211 ±25 211 ±25		JENDL-2 76 MUSGROVE+
12.051 12.051± 0.006	1	0.5	292 ±43	136	82 ± 9 82 ± 9		JENDL-2 76 MUSGROVE+
12.318 12.318± 0.006	1	0.5	158 ±23	136	73 ± 8 73 ± 8		JENDL-2 76 MUSGROVE+
13.080 13.080± 0.01	1	0.5	250 ±35	136	88 ± 9 88 ± 9		JENDL-2 76 MUSGROVE+
13.605 13.605± 0.01	1 1	1.5 (1.5)	491 ±76	136	213 ±25 213 ±25		JENDL-2 76 MUSGROVE+
13.880 13.880± 0.01	1	0.5	315 ±48	136	95 ±11 95 ±11		JENDL-2 76 MUSGROVE+
13.944 13.944± 0.01	1 1	1.5 (1.5)	275 ±43	136	182 ±22 182 ±22		JENDL-2 76 MUSGROVE+
14.080 14.080± 0.01	1 1	1.5 (1.5)	310 ±60	136	189 ±23 189 ±23		JENDL-2 76 MUSGROVE+
14.478 14.478± 0.01	1 1	1.5 (1.5)	451 ±70	136	209 ±25 209 ±25		JENDL-2 76 MUSGROVE+
14.690 14.690± 0.01	1 1	0.5	45 ± 7	136	34 ± 4 34 ± 4		JENDL-2 76 MUSGROVE+
15.027 15.027± 0.01	1 1	1.5 (1.5)	461 ±70	136	210 ±25 210 ±25		JENDL-2 76 MUSGROVE+
15.351 15.351± 0.01	1 1	1.5 (1.5)	5000 ±2000 10000 ±4000	118 ±49 118 ±20	231 ±28 231 ±28		JENDL-2 76 MUSGROVE+
15.424 15.424± 0.01	0	0.5	5000 ±1000 5000 ±1000	124 ±30 124 ±15	121 ±15 121 ±15		JENDL-2 76 MUSGROVE+
15.600 15.600± 0.01	1 1	0.5 (0.5)	382 ±64	136	101 ±13 101 ±13		JENDL-2 76 MUSGROVE+
15.815 15.815± 0.01	1 1	1.5 (1.5)	6000 ±2000 12000 ±4000	214 ±80 214 ±25	413 ±50 413 ±50		JENDL-2 76 MUSGROVE+
16.166	1	1.5	619 ±100	136	223 ±25		JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
16.166± 0.01	1	) ( 1.5)			223 ±25		76MUSGROVE+
16.317 16.317± 0.01	0	0.5	2700 ±500	(170)	160 ±20 160 ±20		JENDL-2 76MUSGROVE+
16.428 16.428± 0.01	1 1	1.5) (1.5)	416 ±65	136	205 ±25 205 ±25		JENDL-2 76MUSGROVE+
16.700 16.700± 0.01	1	0.5	234 ±36	136	86 ±10 86 ±10		JENDL-2 76MUSGROVE+
16.800 16.820± 0.01	1	1.5	213 ±33	136	166 ±20 166 ±20		JENDL-2 76MUSGROVE+
17.042 17.042± 0.01	1	1.5	170 ±26	136	151 ±18 151 ±18		JENDL-2 76MUSGROVE+
17.246 17.246± 0.01	1 1	0.5)	35 ± 7	136	28 ± 5 28 ± 5		JENDL-2 76MUSGROVE+
17.790 17.790± 0.01	1 1	1.5) (1.5)	1500 ±200	(170)	305 ±40 305 ±40		JENDL-2 76MUSGROVE+
17.965 17.965± 0.01	0	0.5	1067 ±172	114	103 ±13 103 ±13		JENDL-2 76MUSGROVE+
18.107 18.107± 0.01	0	0.5	1510 ±240	114	106 ±13 106 ±13		JENDL-2 76MUSGROVE+
18.275 18.275± 0.01	1	0.5	326 ±52	136	96 ±12 96 ±12		JENDL-2 76MUSGROVE+
18.565 18.565± 0.01	1 1	1.5) (1.5)	1020 ±160	136	240 ±30 240 ±30		JENDL-2 76MUSGROVE+
18.995 18.995± 0.01	1 1	1.5) (1.5)	892 ±144	136	236 ±30 236 ±30		JENDL-2 76MUSGROVE+
19.135 19.135± 0.01	1 1	0.5)	38.5 ± 7.5	136	30 ± 5 30 ± 5		JENDL-2 76MUSGROVE+
19.375 19.375± 0.01	1	1.5 (1.5)	3800 ±700	(200)	380 ±50 380 ±50		JENDL-2 76MUSGROVE+
19.605 19.605± 0.01	1	0.5	951 ±55	136	98 ±12 98 ±12		JENDL-2 76MUSGROVE+

A.5 Molybdenum-97

ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HWG (MILLI-EV)	MISCELLANEOUS	REFERENCE
-20	0	2	10.8	130		COM= M-L-B-W	JENDL-2
16.2 16.3 16.3 ± 0.1	1 1 1	2.5 2.5 R	0.0026± 0.0004 0.0026 0.0026± 0.0004	140 ±30 280.0 140.0 ±30.0		GT = 280.003	JENDL-2 JENDL-1 69SHWE+
55.3 55.4 55.4 ± 0.1	1 1 1	2.5 2.5 R	0.035± 0.004 0.035 0.035± 0.004	170 ±30 340.0 170.0 ±30.0		GT = 340.035	JENDL-2 JENDL-1 69SHWE+
70.9 70.92 71.5 ± 1.2 70.8 70.75 70.9 ± 0.1 70.92	0 0 0 0 0 0 0	2.0 2.0 2.0 2.0 2.0 2 2	19.3 ± 2.2 17.5 16.6 ± 1.8 16.0 17.5 ± 0.8 15.2 ± 1.0	(130) 127.0 (260.0 ±80.0) 129.0 ±13.0 127.0 ± 3.0	7.0 ± 0.4 7.0 ± 0.4	GT = 144.5 GNO= 2.0 ± 0.2 WGM= 8.1 ± 0.7 GT = 145.0 ±10.0	JENDL-2 JENDL-1 55HARVEY+ 68COCEVA+ 69JULIEN+ 69SHWE+ 71WEIGMANN+
79.6 79.55 79.8 ± 0.2 79.55	1 1 R R	2.5 2.5 R R	0.112± 0.03 0.112 0.047± 0.005 0.112± 0.032	(150) 170.0 120.0 ±60.0	0.056± 0.016 0.056± 0.016	GT = 170.112	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
109.6 109.58 109.6 ± 0.3 109.58	1 1 R R	2.5 2.5 R R	0.220± 0.086 0.22 0.114± 0.013 0.220± 0.082	(150) 170.0 300.0 ±150.0	0.11 ± 0.04 0.110± 0.041	GT = 170.22	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
126.9 126.89 126.89	1 1 R	2.5 2.5 R	0.196± 0.08 0.196 0.196± 0.074	(150) 170.0	0.098± 0.037 0.098± 0.037	GT = 170.196	JENDL-2 JENDL-1 71WEIGMANN+
136.3 136.32 136.32	1 1 R	2.5 2.5 R	1.149± 0.154 1.146 1.146± 0.102	(150) 170.0	0.57 ± 0.05 0.570± 0.051	GT = 171.146	JENDL-2 JENDL-1 71WEIGMANN+
210.0 209.98 210.1 ± 0.7 209.98	1 1 R R	2.5 2.5 R R	1.088± 0.152 1.086 0.8 ± 0.3 1.086± 0.108	(150) 170.0	0.54 ± 0.05 0.540± 0.053	GT = 171.086	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
227.6 227.58 227.4 227.7 ± 0.6 227.58	0 0 0 R R	3.0 3.0 3.0 R R	2.196± 0.274 2.19 2.3 ± 0.6 2.556± 0.190	(130) 170.0	1.26 ± 0.09 1.260± 0.094	GT = 172.19	JENDL-2 JENDL-1 68COCEVA+ 69SHWE+ 71WEIGMANN+
233.3 233.33 233.33	1 1 R	2.5 2.5 R	0.663± 0.124 0.662 0.662± 0.104	(150) 170.0	0.33 ± 0.05 0.330± 0.052	GT = 170.662	JENDL-2 JENDL-1 71WEIGMANN+
247.9 247.91 248.5 ± 0.6 247.91	1 1 R R	2.5 2.5 R R	1.576± 0.217 1.58 2.85 ± 0.71 1.574± 0.148	(150) 170.0	0.78 ± 0.07 0.780± 0.074	GT = 171.58	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
268.0 268.02 267.9 267.8 ± 0.5 268.02	0 0 0 0 0	3.0 3.0 3.0 R R	15.3 ± 1.8 15.0 14.0 ± 2.0 17.6 ± 1.4	(130) 170.0	8.0 ± 0.5 8.0 ± 0.5	GT = 185.0	JENDL-2 JENDL-1 68COCEVA+ 69SHWE+ 71WEIGMANN+
286.0 286.03 292.0 ±10.0 286.3 ± 0.7 286.03	0 0 0 0 0	2.0 2.0 R R 2	95.9 ±19.2 53.0 75.0 ±15.0 49.0 ± 8.0 62 ±16	(130) 170.0 (260.0 ±80.0)	23.0 ± 1.7 23.0 ± 1.7	GT = 223.0 GNO= 4.4 ± 0.9	JENDL-2 JENDL-1 55HARVEY+ 69SHWE+ 71WEIGMANN+
312.1 312.07 311.8 311.5 ± 1.0 312.07	0 0 0 0 0	3.0 3.0 3.0 R 3	9.37 ± 1.19 9.26 9.0 ± 1.5 10.8 ± 0.8	(130) 170.0	5.1 ± 0.4 5.1 ± 0.4	GT = 179.26	JENDL-2 JENDL-1 68COCEVA+ 69SHWE+ 71WEIGMANN+
321.1 321.12 321.12	1 1 R	2.5 2.5 R	1.88 ± 0.34 1.88 1.880± 0.278	(150) 170.0	0.93 ± 0.14 0.930± 0.139	GT = 171.88	JENDL-2 JENDL-1 71WEIGMANN+
352.7 352.72 352.71	1 1 R	2.5 2.5 R	8.9 ± 1.4 8.8 8.8 ± 1.0	(150) 170.0	4.2 ± 0.5 4.2 ± 0.5	GT = 178.8	JENDL-2 JENDL-1 71WEIGMANN+
380.9 380.91 380.91	1 1 R	2.5 2.5 R	6.0 ± 0.7 6.0 6.0 ± 0.4	(150) 170.0	2.9 ± 0.2 2.9 ± 0.2	GT = 176.0	JENDL-2 JENDL-1 71WEIGMANN+
397.2 397.16 406.0 ±17.0 396.9 397.2 ± 1.0 397.16	0 0 0 0 0 0	3.0 3.0 3.0 R 3 3	69.8 ±10.6 75.0 80.0 ±40.0 75.0 ± 8.0 76 ±24	(130) 127.0 (260.0 ±80.0) 127.0)	26.5 ± 1.7 26.5 ± 1.7	GT = 202.0 GNO= 4.0 ± 2.0	JENDL-2 JENDL-1 55HARVEY+ 68COCEVA+ 69SHWE+ 71WEIGMANN+
457.3 457.3 457.30	1 1 R	2.5 2.5 R	1.72 ± 0.28 1.72 1.716± 0.220	(150) 170.0	0.85 ± 0.11 0.850± 0.110	GT = 171.72	JENDL-2 JENDL-1 71WEIGMANN+
505.5 505.45 505.4 ± 1.3 505.45	0 0 R R	2.5 2.5 R R	62.0 ±12.4 55.6 48.0 ± 7.0 55.6 ±12.4	(130) 170.0	21.0 ± 1.4 21.0 ± 1.4	GT = 225.6	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
528.3 528.34 528.34	1 1 R	2.5 2.5 R	1.495± 0.23 1.49 1.492± 0.222	(150) 170.0	0.74 ± 0.11 0.740± 0.111	GT = 171.49	JENDL-2 JENDL-1 71WEIGMANN+

ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	AMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
533.8 533.81 533.81	1 1	2.5 2.5	4.53 ± 0.6 4.6 4.6 ± 0.4	(150) 170.0	2.2 ± 0.2 2.2 ± 0.2	GT = 174.6	JENDL-2 JENDL-1 71WEIGMANN+
548.3 548.25 548.25	1 1	2.5 2.5	4.53 ± 0.6 4.6 4.6 ± 0.4	(150) 170.0	2.2 ± 0.2 2.2 ± 0.2	GT = 174.6	JENDL-2 JENDL-1 71WEIGMANN+
558.4 558.43 557.9 558.3 ± 1.5 558.43	0 0 0 0	3.0 3.0 3.0 3	511 ± 41 511.0 620.0 ± 50.0 596 ± 48	195 ± 17 134.0 (127.0) 156 ± 10	62 ± 4 62 ± 4	GT = 645.0	JENDL-2 JENDL-1 68COCEVA+ 69SHWE+ 71WEIGMANN+
564.1 564.06 564.06	1 1	2.5 2.5	2.65 ± 1.35 2.64 2.64 ± 1.300	(150) 170.0	1.30 ± 0.65 1.30 ± 0.650	GT = 172.64	JENDL-2 JENDL-1 71WEIGMANN+
568.0 568.0 568.00	1 1	2.5 2.5	6.69 ± 1.07 6.6 6.6 ± 0.8	(150) 170.0	3.2 ± 0.4 3.2 ± 0.4	GT = 176.6	JENDL-2 JENDL-1 71WEIGMANN+
572.0 571.97 571.97	1 1	2.5 2.5	5.60 ± 1.00 5.6 5.6 ± 0.8	(150) 170.0	2.7 ± 0.4 2.7 ± 0.4	GT = 175.6	JENDL-2 JENDL-1 71WEIGMANN+
578.5 578.52 578.52	1 1	2.5 2.5	1.70 ± 0.30 1.7 1.696 ± 0.252	(150) 170.0	0.84 ± 0.13 0.840 ± 0.125	GT = 171.7	JENDL-2 JENDL-1 71WEIGMANN+
580.0 ± 30.0	0		670.0 ± 130.0	(260.0 ± 80.0)		GND = 28.0 ± 6.0	55HARVEY+
653.2 653.15 653.16	1 1	2.5 2.5	2.69 ± 0.44 2.68 2.680 ± 0.342	(150) 170.0	1.32 ± 0.17 1.320 ± 0.171	GT = 172.68	JENDL-2 JENDL-1 71WEIGMANN+
676.3 676.32 676.2 ± 2.2 676.32	0 0	3.0 2.5	329 ± 43 384.0 385.0 ± 50.0 384 ± 50	226 ± 36 262.0 (127.0) 262 ± 32	78 ± 7 78 ± 7	GT = 646.0	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
694.7 694.68 694.68	1 1	2.5 2.5	12.6 ± 1.5 12.4 12.4 ± 0.8	(150) 170.0	5.8 ± 0.4 5.8 ± 0.4	GT = 182.4	JENDL-2 JENDL-1 71WEIGMANN+
700.7 700.74 700.74	1 1	2.5 2.5	9.35 ± 1.1 9.2 9.2 ± 0.6	(150) 170.0	4.4 ± 0.3 4.4 ± 0.3	GT = 179.2	JENDL-2 JENDL-1 71WEIGMANN+
786.5 786.48 786.0 787.3 ± 2.6 786.48	0 0 0 0	3.0 3.0 3.0 3	327 ± 100 329.0 510.0 ± 80.0 392 ± 118	146 ± 46 146.0 (127.0) 170 ± 42	59 ± 4 59 ± 4	GT = 475.0	JENDL-2 JENDL-1 68COCEVA+ 69SHWE+ 71WEIGMANN+
809.2 809.2 809.20	1 1	2.5 2.5	3.98 ± 0.51 3.97 3.970 ± 0.506	(150) 170.0	1.94 ± 0.25 1.940 ± 0.252	GT = 173.97	JENDL-2 JENDL-1 71WEIGMANN+
862.5 862.5 865.0 ± 4.0 862.50	0 0 0	2.0 2.0 2	75 ± 13 62.0 45.0 ± 14.0 51.5 ± 10.6	(130) 170.0	19.8 ± 1.3 19.8 ± 1.3	GT = 232.0	JENDL-2 JENDL-1 69SHWE+ 71WEIGMANN+
905.7 905.68 905.68	1 1	2.5 2.5	10.0 ± 1.3 9.8 9.8 ± 0.6	(150) 170.0	4.7 ± 0.4 4.7 ± 0.4	GT = 179.8	JENDL-2 JENDL-1 71WEIGMANN+
975.1 975.14 975.14	1 1	2.5 2.5	14.2 ± 1.8 14.0 14.0 ± 1.2	(150) 170.0	6.5 ± 0.5 6.5 ± 0.5	GT = 184.0	JENDL-2 JENDL-1 71WEIGMANN+
1008.2 1008.2 1008.2	0 0	2.5 2.5	70 ± 14 62.0 62 ± 14	(130) 170.0	22.8 ± 1.5 22.8 ± 1.5	GT = 232.0	JENDL-2 JENDL-1 71WEIGMANN+
1108.7 1108.7 1108.7	0 0	2.5 2.5	280 ± 34 280.0 280 ± 34	116 ± 16 114.0 114 ± 10	41 ± 3 41 ± 3	GT = 394.0	JENDL-2 JENDL-1 71WEIGMANN+
1133.4 1133.4 1133.4	1 0	2.5 2.5	57.6 ± 12.0 55.0 55.0 ± 12.0	(150) 170.0	20.8 ± 1.4 20.8 ± 1.4	GT = 225.0	JENDL-2 JENDL-1 71WEIGMANN+
1176.4 1176.4 1176.4	0 0	2.5 2.5	91 ± 26 78.0 78 ± 26	(130) 170.0	26.8 ± 1.8 26.8 ± 1.8	GT = 248.0	JENDL-2 JENDL-1 71WEIGMANN+
1194.2 1194.2 1194.2	1 1	2.5 2.5	9.57 ± 1.28 9.4 9.4 ± 1.0	(150) 170.0	4.5 ± 0.4 4.5 ± 0.4	GT = 179.4	JENDL-2 JENDL-1 71WEIGMANN+
1248.8 1248.8 1250.0 1248.8	0 0 0	3.0 3.0 3.0 3	458 ± 158 458.0 534 ± 184	147 ± 52 146.0 170 ± 36	65 ± 5 65 ± 5	GT = 604.0	JENDL-2 JENDL-1 68COCEVA+ 71WEIGMANN+
1254.0 ± 16.0			1500.0 ± 150.0	(127.0)			69SHWE+
1270.1 1270.1 1270.1	1 0	2.5 2.5	55.3 ± 11.2 52.8 52.8 ± 11.2	(150) 170.0	20.2 ± 1.4 20.2 ± 1.4	GT = 222.8	JENDL-2 JENDL-1 71WEIGMANN+
1293.5 1293.5 1293.5	1 0	2.5 2.5	41.7 ± 6.4 40.2 40.2 ± 6.4	(150) 170.0	16.3 ± 1.2 16.3 ± 1.2	GT = 210.2	JENDL-2 JENDL-1 71WEIGMANN+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1317.6 1317.6 1317.6	1 0	2.5 2.5	60.3 ±13.2 57.4 57.4 ±13.2	(150) 170.0	21.5 ± 1.5 21.5 ± 1.5	GT = 227.4	JENDL-2 JENDL-1 71WEIGMANN+
1333.5 1333.5 1333.5	1 0	2.5 2.5	56.4 ±11.6 54.0 54.0 ±11.6	(150) 170.0	20.5 ± 1.4 20.5 ± 1.4	GT = 224.0	JENDL-2 JENDL-1 71WEIGMANN+
1364.3 1364.3 1364.3	1 0	2.5 2.5	70.6 ±18.0 66.0 66 ±18	(150) 170.0	24.0 ± 1.6 24.0 ± 1.6	GT = 236.0	JENDL-2 JENDL-1 71WEIGMANN+
1375.4 1375.4 1375.4	1 1	2.5 2.5	11.4 ± 1.9 11.2 11.2 ± 1.6	(150) 170.0	5.3 ± 0.7 5.3 ± 0.7	GT = 181.2	JENDL-2 JENDL-1 71WEIGMANN+
1398.0 1398.0 1398.0	1 1	2.5 2.5	14.2 ± 2.0 14.0 14.0 ± 1.4	(150) 170.0	6.5 ± 0.7 6.5 ± 0.7	GT = 184.0	JENDL-2 JENDL-1 71WEIGMANN+
1425.2 1425.2 1425.2	0 0	2.5 2.5	126 ±15 103.0	(130) 170.0	32 ± 2 32 ± 2	GT = 273.0	JENDL-2 JENDL-1 71WEIGMANN+
1453.1 1453.1 1453.1	1 1	2.5 2.5	19.2 ± 3.1 18.8 18.8 ± 2.4	(150) 170.0	8.5 ± 1.1 8.5 ± 1.1	GT = 188.8	JENDL-2 JENDL-1 71WEIGMANN+
1485.0 1485.0 1485.0	1 1	2.5 2.5	11.9 ± 1.9 11.6 11.6 ± 1.4	(150) 170.0	5.5 ± 0.7 5.5 ± 0.7	GT = 181.6	JENDL-2 JENDL-1 71WEIGMANN+
1534.2 1534.2 1535.0 ±27.0 1534.2	0 0	2.5 2.5	412 ±164 412.0 1320.0 ±90.0 412 ±164	150 ±60 150.0 (127.0) 150 ±48	55 ± 4 55 ± 4	GT = 562.0	JENDL-2 JENDL-1 69SHHE+ 71WEIGMANN+
1554.2 1554.2 1554.2	1 1	2.5 2.5	5.82 ± 1.2 5.6 5.6 ± 1.0	(150) 170.0	2.8 ± 0.5 2.8 ± 0.5	GT = 175.6	JENDL-2 JENDL-1 71WEIGMANN+
1596.4 1596.4 1596.4	0 0	2.5 2.5	195 ±25 144.0	(130) 170.0	39 ± 3 39 ± 3	GT = 314.0	JENDL-2 JENDL-1 71WEIGMANN+
1628.4 1628.4 1628.4	1 1	2.5 2.5	14.5 ± 2.1 14.1 14.2 ± 1.6	(150) 170.0	6.6 ± 0.7 6.6 ± 0.7	GT = 184.1	JENDL-2 JENDL-1 71WEIGMANN+
1699.0 1699.0 1699.0	0 0	2.5 2.5	134 ±16 108.0	(130) 170.0	33 ± 2 33 ± 2	GT = 278.0	JENDL-2 JENDL-1 71WEIGMANN+
1712.5 1712.5 1712.5	0 0	2.5 2.5	715 ±88 312.0	(130) 170.0	55 ± 4 55 ± 4	GT = 482.0	JENDL-2 JENDL-1 71WEIGMANN+
1740.7 1740.7 1740.7	1 1	2.5 2.5	37.8 ± 4.8 36.6 36.6 ± 5.4	(150) 170.0	15.1 ± 1.2 15.1 ± 1.2	GT = 206.6	JENDL-2 JENDL-1 71WEIGMANN+
1795.0 1795.0 1795.0	1 0	2.5 2.5	55.3 ± 6.9 52.8 52.8 ±11.2	(150) 170.0	20.2 ± 1.5 20.2 ± 1.5	GT = 222.8	JENDL-2 JENDL-1 71WEIGMANN+
1835.9 1835.9 1835.9	1 1	2.5 2.5	13.8 ± 2.2 13.5 13.5 ± 1.6	(150) 170.0	6.3 ± 0.8 6.3 ± 0.8	GT = 183.6	JENDL-2 JENDL-1 71WEIGMANN+
1865.0						COM= UNRESLVD	71WEIGMANN+
1870.9						COM= UNRESLVD	71WEIGMANN+
1903.8 1903.8	1	2.5	83.9 ±11 76 ±26	(150)	26.9 ± 2.1 26.9 ± 2.1		JENDL-2 71WEIGMANN+
1931.5 1931.5	0	2.5	181 ±21	(130)	36 ± 3 36 ± 3		JENDL-2 71WEIGMANN+
1940.8 1940.8	0	2.5	183 ±23	(130)	38 ± 3 38 ± 3		JENDL-2 71WEIGMANN+

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-0.98	0	0.5	4710	(85)		COM= M-L-B-W	JENDL-2
0.0121 0.0121 0.0121± 0.0001 0.012 0.01208 0.0121±0.00015 0.012	1 1 1 1 1 1 1	1.5 1.5 1.5 1.5 1.5 1.5 1.5	0.029± 0.004 0.03 0.061± 0.006 0.058± 0.004	(120) 125.0 110.0 ±15.0	0.058± 0.004 0.058± 0.004	GT = 125.03 WGI = 750.0 ±40.0	JENDL-2 JENDL-1 69SHWE+ 71MUGHABGHAB+ 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
0.402 0.4018 0.40212 0.4014± 0.0003 0.402	1 1 1 1 1	1.5 1.5 1.5 1.5 1.5	1.62 ± 0.19 1.6 3.2 ± 0.2	(120) 93.0	3.2 ± 0.2 3.2 ± 0.2	GT = 94.6 WGI = 179.0 ±20.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
0.430 0.4293 0.4289± 0.0011 0.429 0.42968 0.4288± 0.0003 0.429	1 1 1 1 1 1 1	0.5 0.5 0.5 0.5 0.5 0.5 0.5	73.4 ± 4.4 70.0 79.0 ±14.0 67 ± 6	123 ±13 160.0 170.0 ±80.0 150 ±15	46 ± 4 46 ± 4	GT = 230.0 WGI = 3990.0 ±240.0	JENDL-2 JENDL-1 69SHWE+ 71MUGHABGHAB+ 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
0.468 0.4674 0.46 ± 0.02 0.4674± 0.0012 0.46784 0.467± 0.0003 0.467	0 0 0 0 0 0 0	0.5 0.5 0.5 0.5 0.5 0.5 0.5	759 ±49 600.0 740.0 ±10.0 695.0 ±70.0 400 ±50	96 ±11 110.0 (260.0 ±80.0) 108 ±10	85 ± 8 85 ± 8	GT = 710.0 GNO = 34.0 ± 5.0 GNO = 35.1 ± 2.0	JENDL-2 JENDL-1 56HARVEY+ 69SHWE+ 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
0.613 0.6125 0.6124± 0.0018 0.612 0.61248 0.6118± 0.0004 0.613	1 1 1 1 1 1 1	0.5 0.5 0.5 0.5 0.5 0.5 0.5	65.8 ±11.0 65.0 40.0 ± 8.0 65 ± 6	143 ±26 145.0 (170.0) 145 ±15	45 ± 3 45 ± 3	GT = 210.0 WGI = 2100.0 ±350.0	JENDL-2 JENDL-1 69SHWE+ 71MUGHABGHAB+ 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
0.819 0.8181 0.8174± 0.0029 0.818 0.81802 0.8173± 0.0005 0.818	1 1 1 1 1 1 1	1.5 1.5 1.5 1.5 1.5 1.5 1.5	68 ± 7 80.0 148.0 ±15.0 160 ±26	103 ±14 90.0 (170.0) 170 ±20	82 ± 7 82 ± 7	GT = 170.0 WGI = 2810.0 ±280.0	JENDL-2 JENDL-1 69SHWE+ 71MUGHABGHAB+ 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
1.109± 0.013 1.108		1.5	3100.0 ±400.0	(170.0)			69SHWE+ 71MUGHABGHAB+
1.124 1.1225 1.1223 1.1219± 0.0007 1.123	1 1 1 1 1	1.5 1.5 1.5 1.5 1.5	10.4 ± 1.3 10.25 22.2 ± 6.1	(120) 93.0	19.2 ± 1.3 19.2 ± 1.3	GT = 103.25 WGI = 240.0 ±50.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
1.529 1.5255 1.5266 1.525± 0.001 1.525	0 0 0 0 0	0.5 0.5 0.5 0.5 0.5	1280 ±120 800.0 750 ±100	71.8 ± 9.1 75.0 75 ± 7	68 ± 6 68 ± 6	GT = 875.0 GNO = 32.8 ± 3.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
1.927 1.922 1.9222 1.9195± 0.0012 1.922	1 0 1 1 1	1.5 0.5 1.5 1.5 1.5	11.0 ± 1.6 23.3 23.3 ± 6.9	(120) 93.0	20 ± 2 20.0 ± 2.0	GT = 116.3 WGI = 75.0 ±30.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
2.026 2.0212 2.0213	1 0 1	0.5 0.5 0.5	2.55 ± 0.33 2.5 2.5 ± 0.2	(120) 93.0	2.5 ± 0.2 2.5 ± 0.2	GT = 95.5	JENDL-2 JENDL-1 71WEIGMANN+
2.182 2.1766 2.1757 2.1758± 0.0012 2.178	1 1 1 1 1	0.5 0.5 0.5 0.5 0.5	170 ±30 145.0 145.0	128 ±25 145.0	73 ± 6 73 ± 6	GT = 290.0 WGI = 810.0 ±140.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
2.465 2.4617 2.4604 2.46 ± 0.0015 2.462	1 0 0 1 1	0.5 0.5 0.5 0.5 0.5	93 ±15 120.0	134 ±25 105.0	55 ± 5 55 ± 5	GT = 225.0 WGI = 370.0 ±60.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
2.553 2.549 2.5473 2.5463± 0.0015 2.555	0 0 0 0 1	0.5 0.5 0.5 0.5 1.5	888 ±15 1300.0 1466 ±148	70 ±14 70.0 75 ± 8	65 ± 6 65 ± 6	GT = 1370.0 GNO = 17.6 ± 3.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
2.617 2.615 2.6095 2.61 ± 0.0016 2.615	1 1 1 1 1	1.5 1.5 1.5 1.5 1.5	24.7 ± 3.5 15.0	(120) 93.0	41 ± 4 41 ± 4	GT = 108.0 WGI = 100.0 ±20.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
2.951 2.947 2.9456 2.943± 0.0018 2.947	1 1 1 1 1	0.5 0.5 0.5 0.5 0.5	57.8 ± 8.3 24.0	(120) 93.0	39 ± 4 39 ± 4	GT = 117.0 WGI = 72.0 ±20.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHRLEN+ 76MUGHABGHAB+
3.269 3.264 3.2608	1 1 1	0.5 0.5 0.5	47.4 ± 7.2 90.0	(120) 93.0	39 ± 4 37 ± 4	GT = 183.0	JENDL-2 JENDL-1 71WEIGMANN+

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3.26 ± 0.0019 3.264 3.269 ± 0.003	1 1 1	1.5 0.5		(100)	29 ± 4	WGI = 53.0 ± 40.0	76CHR1EN+ 76MUGHABGHAB+ 76MUSGROVE+
3.302 3.293 3.2951 3.293 ± 0.0019 3.293 3.302 ± 0.003	0 0 0 0 0	0.5 0.5 0.5	1480 ± 170 4800.0 (4823 ± 2411)	65 ± 17 80.0 80 ± 8	63 ± 14 79 ± 8	GT = 4880.0 GNO = 25.8 ± 3.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHR1EN+ 76MUGHABGHAB+ 76MUSGROVE+
3.804 3.797 3.7947 3.794 ± 0.0023 3.797 3.804 ± 0.003	1 0 1 1 1 1	1.5 1.5 1.5	186 ± 38 157.5	106 ± 22 90.0	135 ± 6 140 ± 13	GT = 247.5 WGI = 775.0 ± 160.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHR1EN+ 76MUGHABGHAB+ 76MUSGROVE+
4.023 4.013 4.0128 4.013 ± 0.0024 4.013 4.023 ± 0.003	1 1 1 1 1 1	1.5 1.5 1.5	86.2 ± 13.1 110.0	154 ± 26 80.0	113 ± 5 118 ± 11	GT = 180.0 WGI = 330.0 ± 50.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHR1EN+ 76MUGHABGHAB+ 76MUSGROVE+
4.486 4.482 4.4712 4.475 ± 0.0026 4.486 ± 0.003	0 0 0 0 0	0.5 0.5	428 ± 67 309.0 (309 ± 140)	84 ± 13 93.0 93 ± 32	70.4 ± 2.3 72 ± 7	GT = 402.0 GNO = 6.4 ± 1.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHR1EN+ 76MUSGROVE+
4.579 4.574 4.5712 4.567 ± 0.0027 4.574 4.579 ± 0.003	1 1 1 1 1 1	1.5 1.5 1.5	165 ± 32 270.0 (539 ± 198)	138 ± 27 110.0 219 ± 69	150 ± 8 156 ± 14	GT = 380.0 WGI = 520.0 ± 100.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHR1EN+ 76MUGHABGHAB+ 76MUSGROVE+
4.858 4.843 4.8423 4.844 ± 0.0029 4.861 4.858 ± 0.003	1 1 1 1 1 1	1.5 1.5 1.5	206 ± 35 511.5 (1023 ± 292)	126 ± 24 100.0 200 ± 23	157 ± 13 168 ± 15	GT = 611.5 WGI = 596.0 ± 100.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHR1EN+ 76MUGHABGHAB+ 76MUSGROVE+
5.282 5.276 5.261 5.268 ± 0.0032 5.288 5.282 ± 0.003	1 1 1 1 1 1	1.5 1.5 1.5	584 ± 18 123.5	75 ± 23 130.0	133 ± 4 130 ± 13	GT = 253.5 WGI = 1490.0 ± 450.0	JENDL-2 JENDL-1 71WEIGMANN+ 76CHR1EN+ 76MUGHABGHAB+ 76MUSGROVE+
5.430 5.432 5.430 ± 0.003	1 1 1	0.5 0.5 0.5	49.4 ± 8.6	(120)	35 ± 5		JENDL-2 76MUGHABGHAB+ 76MUSGROVE+
5.610 5.596 ± 0.0037 5.610 ± 0.003	0 0 0	0.5	1945 ± 150	86 ± 13	82 ± 11	GNO = 25.0 ± 2.0	JENDL-2 76CHR1EN+ 76MUSGROVE+
5.651 5.636 ± 0.0034 5.617 5.651 ± 0.003	1 1 1 1	0.5 0.5 0.5	641 ± 104	148 ± 30	119 ± 15	WGI = 740.0 ± 120.0	JENDL-2 76CHR1EN+ 76MUGHABGHAB+ 76MUSGROVE+
5.931 5.915 ± 0.0035 5.931 ± 0.003	1 1 1	0.5 0.5	1161 ± 23	150 ± 35	133 ± 16	WGI = 1247.0 ± 250.0	JENDL-2 76CHR1EN+ 76MUSGROVE+
6.179 6.178 ± 0.0037 6.178 ± 0.004	0 0 0	0.5	6500 ± 800	44 ± 8	44 ± 6	GNO = 84.0 ± 10.0	JENDL-2 76CHR1EN+ 76MUSGROVE+
6.197 6.197 ± 0.004	1 1	0.5	55.5 ± 10.4	(120)	38 ± 6 38 ± 6		JENDL-2 76MUSGROVE+
6.590 6.676 ± 0.004 6.590 ± 0.004	1 1 1	0.5 (0.5)	178 ± 89	105 ± 55	66 ± 10	WGI = 160.0 ± 80.0	JENDL-2 76CHR1EN+ 76MUSGROVE+
6.833 6.814 ± 0.0041 6.833 ± 0.004	1 1 1	1.5 1.5	442 ± 92	87.4 ± 21	146 ± 18	WGI = 769.0 ± 160.0	JENDL-2 76CHR1EN+ 76MUSGROVE+
7.111 7.111 ± 0.004	1 1	0.5	36.5 ± 6.4	(120)	28 ± 4 28 ± 4		JENDL-2 76MUSGROVE+
7.196 7.172 ± 0.0043 7.196 ± 0.004	1 1 1	0.5	184 ± 100	91.4 ± 51	61 ± 8	WGI = 148.0 ± 80.0	JENDL-2 76CHR1EN+ 76MUSGROVE+
7.515 7.497 ± 0.0044 7.515 ± 0.004	0 0 0	0.5	4035 ± 433	71 ± 13	70 ± 10	GNO = 46.5 ± 5.0	JENDL-2 76CHR1EN+ 76MUSGROVE+
7.613 7.59 ± 0.0046 7.613 ± 0.004	1 1 1	0.5 (0.5)	509 ± 94	137 ± 32	108 ± 15	WGI = 377.0 ± 70.0	JENDL-2 76CHR1EN+ 76MUSGROVE+
7.981 7.96 ± 0.0048 7.981 ± 0.004	1 1 1	1.5 (1.5)	453 ± 87	94 ± 22	156 ± 20	WGI = 625.0 ± 120.0	JENDL-2 76CHR1EN+ 76MUSGROVE+
8.580 8.558 ± 0.0052 8.580 ± 0.004	1 1 1	1.5	1257 ± 200	103 ± 21	190 ± 24	WGI = 1550.0 ± 250.0	JENDL-2 76CHR1EN+ 76MUSGROVE+

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
8.616 8.616± 0.004	1 1	0.5 (0.5)	67 ±12	(120) 47 ±10	43 ± 6 43 ± 6		JENDL-2 76MUSGROVE+
8.840 8.815± 0.0053 8.840± 0.004	1 1 1	1.5 (1.5)	598 ±143	117 ±32 117 ±15	196 ±24 196 ±24	WGI= 710.0 ±170.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
9.045 9.052 9.032± 0.0054 9.045± 0.005	0 0 0 0	0.5 0.5	35830 ±4750 47850.0	125 ±23 93.0	125 ±16	GT = 47943.0 GNO= 377.0 ±50.0	JENDL-2 JENDL-1 76CHRIEN+ 76MUSGROVE+
9.385 9.362± 0.0056 9.385± 0.005	1 1 1	0.5 (0.5)	210 ±92	51 ±24 52 ±10	41 ± 6 41 ± 6	WGI= 114.0 ±50.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
9.450 9.450± 0.005	1	0.5	15.8 ± 2.8	(120)	14 ± 2 14 ± 2		JENDL-2 76MUSGROVE+
9.686 9.659± 0.0056 9.686± 0.005	1 1 1	1.5 (1.5)	764 ±154	66 ±16 66 ±10	121 ±16 121 ±16	WGI= 792.0 ±160.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
9.749 9.723± 0.895-3 9.749± 0.005	1 1 0	0.5)	214 ±97	116 ±54 117 ±30	75 ± 9 75 ± 9	WGI= 110.0 ±50.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
10.053 10.025± 0.006 10.053± 0.006	1 1 1	0.5 (0.5)	391 ±102	102 ±29 101 ±20	81 ±10 81 ±10	WGI= 192.0 ±60.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
10.600 10.576± 0.006 10.600± 0.008	0 0 0	0.5	12030 ±1540	65.4 ±12 65 ± 9	65 ± 9 65 ± 9	GNO= 117.0 ±15.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
10.900 10.868± 0.006 10.900± 0.006	1 1 1	1.5) (1.5)	339 ±104	86.6 ±28 89 ±10	138 ±16 138 ±16	WGH= 6.5 ± 2.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
11.310 11.283± 0.006 11.310± 0.006	1	0.5	319 ±212	58 ±39	49 ± 6 49 ± 6	WGH= 3.0 ± 2.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
11.361 11.33 ± 0.006 11.361± 0.007	1 1	1.5) (1.5)	1540 ±320	98 ±23 99 ±12	185 ±20 185 ±20	WGH= 29.0 ± 6.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
11.598 11.564± 0.006 11.598± 0.007	0 0	0.5)	1936 ±540	79 ±24 80 ±10	76 ±10 76 ±10	WGH= 18.0 ± 5.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
11.703 11.672± 0.006 11.703± 0.007	1 1	1.5 1.5	3460 ±810	131 ±34 131 ±16	252 ±30 252 ±30	WGH= 64.0 ±15.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
12.020 11.984± 0.007 12.020± 0.01	1 1	1.5 1.5	2846 ±383	81 ±15 81 ±10	157 ±20 157 ±20	WGH= 52.0 ± 7.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
12.100 12.067± 0.007 12.100± 0.01	1 1	1.5) (1.5)	571 ±165	95 ±30 95 ±11	163 ±20 163 ±20	WGH= 10.4 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
12.856 12.856± 0.01	1	0.5	260 ±46	(120)	82 ±12 82 ±12		JENDL-2 76MUSGROVE+
13.005 13.005± 0.01	1	0.5	260 ±46	(120)	82 ±12 82 ±12		JENDL-2 76MUSGROVE+
13.160 13.123± 0.008 13.160± 0.01	1 1	1.5) (1.5)	407 ±115	93.5 ±29 93 ±15	152 ±20 152 ±20	WGH= 7.1 ± 2.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
13.420 13.397± 0.008 13.420± 0.01	1 1	1.5) (1.5)	1042 ±347	97.3 ±35 97 ±12	178 ±25 178 ±25	WGH= 18.0 ± 6.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
13.843 13.843± 0.01	1	0.5	120 ±23	(120)	60 ±10 60 ±10		JENDL-2 76MUSGROVE+
14.030 14.030± 0.01	1	0.5	92 ±20	(120)	52 ±10 52 ±10		JENDL-2 76MUSGROVE+
14.080 14.080± 0.01	1	0.5	434 ±70	(120)	94 ±12 94 ±12		JENDL-2 76MUSGROVE+
14.830 14.583± 0.009 14.830± 0.01	1 1	1.5) (1.5)	272 ±121	84.6 ±39 85 ±10	129 ±16 129 ±16	WGH= 4.5 ± 2.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
14.785 14.741± 0.009 14.785± 0.01	1 1	1.5) (1.5)	2550 ±610	90 ±25 90 ±11	174 ±25 174 ±25	WGH= 42.0 ±10.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
14.825 14.782± 0.009 14.825± 0.01	0 0	0.5)	3770 ±730	86 ±20 86 ±11	84 ±10 84 ±10	WGH= 31.0 ± 6.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
15.250 15.21 ± 0.01 15.250± 0.01	1 1	1.5) (1.5)	765 ±185	91 ±25 91 ±11	163 ±20 163 ±20	WGH= 12.4 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
15.330 15.330± 0.01	1	0.5	291 ±48	(120)	85 ±11 85 ±11		JENDL-2 76MUSGROVE+
15.780	1	0.5	215 ±37	(120)	77 ±11		JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
15.780± 0.01					77 ±11		76MUSGROVE+
15.940 15.897± 0.01 15.940± 0.01	0 (0)	0.5	1500 ±380	86 ±25 85 ±11	81 ±11 81 ±11	WGH= 11.9 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
16.238 16.181± 0.011 16.238± 0.01	1 (1) (1.5)	1.5	382 ±127	95 ±34 95 ±15	152 ±20 152 ±20	WGH= 6.0 ± 2.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
16.500 16.455± 0.011 16.500± 0.01	0 (0)	0.5	2440 ±640	67 ±21	65 ±12 65 ±12	WGH= 19.0 ± 5.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
16.740 16.684± 0.012 16.740± 0.01	1 (1) (1.5)	1.5	387 ±129	89 ±32 89 ±15	145 ±20 145 ±20	WGH= 6.0 ± 2.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
16.995 16.945± 0.012 16.995± 0.01	1 (1) (0.5)	0.5	9250 ±650	125 ±31 125 ±20	120 ±18 120 ±18	WGH= 25.0 ± 5.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
17.380 17.380± 0.01	1 (1) (1.5)	1.5	275 ±43	(120)	167 ±20 167 ±20		JENDL-2 76MUSGROVE+
17.640 17.594± 0.013 17.640± 0.01	1	0.5	3650 ±660	123 ±28	119 ±16 119 ±16	WGH= 27.5 ± 5.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
17.745 17.745± 0.01	1 (1) (1.5)	1.5	174 ±30	(120)	142 ±20 142 ±20		JENDL-2 76MUSGROVE+
18.045 18.045± 0.01	1 (1)	0.5	43.6 ± 9.3	(120)	32 ± 6 32 ± 6		JENDL-2 76MUSGROVE+
18.335 18.284± 0.013 18.335± 0.01	1 (1) (1.5)	1.5	473 ±135	92 ±29 92 ±15	154 ±20 154 ±20	WGH= 7.0 ± 2.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
18.580 18.580± 0.01	1	1.5	82.8 ±14.4	(120)	98 ±14 98 ±14		JENDL-2 76MUSGROVE+
19.060 19.060± 0.01	1 (1) (1.5)	1.5	618 ±110	(120)	201 ±30 201 ±30		JENDL-2 76MUSGROVE+
19.285 19.247± 0.014 19.285± 0.01	0 (0)	0.5	4580 ±630	98 ±24 98 ±15	96 ±15 96 ±15	WGH= 33.0 ± 6.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
19.625 19.575± 0.014 19.625± 0.01	1 (1) (1.5)	1.5	4690 ±910	124 ±29 124 ±16	242 ±32 242 ±32	WGH= 67.0 ±13.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
19.745 19.745± 0.01	1 (1) (1.5)	1.5	200 ±33	(120)	150 ±20 150 ±20		JENDL-2 76MUSGROVE+
19.910 19.910± 0.01	1	0.5	193 ±51	(120)	74 ±18 74 ±18		JENDL-2 76MUSGROVE+
20.030 19.965± 0.014 20.030± 0.01	1 (1) (1.5)	1.5	424 ±212	123 ±65 124 ±50	191 ±30 191 ±30	WGH= 6.0 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
20.255 20.197± 0.014 20.255± 0.01	1 (1) (0.5)	0.5	1280 ±570	130 ±62 130 ±25	118 ±20 118 ±20	WGH= 9.0 ± 4.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
20.865 20.865± 0.01	1	0.5	360 ±81	(120)	90 ±18 90 ±18		JENDL-2 76MUSGROVE+
21.170 21.170± 0.01	1	1.5	95 ±20	(120)	106 ±20 106 ±20		JENDL-2 76MUSGROVE+
21.395 21.395± 0.01	1	0.5	109 ±25	(120)	57 ±12 57 ±12		JENDL-2 76MUSGROVE+
21.530 21.530± 0.01	1	0.5	72 ±18	(120)	45 ±12 45 ±10		JENDL-2 76MUSGROVE+
21.675 21.675± 0.01	1 (1) (1.5)	1.5	180 ±31	(120)	144 ±20 144 ±20		JENDL-2 76MUSGROVE+
21.950 21.878± 0.015 21.950± 0.01	1 (1) (1.5)	1.5	1553 ±370	197 ±53 196 ±25	349 ±45 349 ±45	WGH= 21.0 ± 5.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
22.070 22.003± 0.015 22.070± 0.01	1 (1) (1.5)	1.5	2150 ±445	92 ±23 92 ±16	176 ±25 176 ±25	WGH= 29.0 ± 6.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
22.570 22.496± 0.015 22.570± 0.01	1 (1) (1.5)	1.5	825 ±225	102 ±31 102 ±16	182 ±25 182 ±25	WGH= 11.0 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
22.980 22.903± 0.016 22.980± 0.01	1 (1) (1.5)	1.5	832 ±227	117 ±36 117 ±17	205 ±30 205 ±30	WGH= 11.0 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
23.180 23.180± 0.01	1	0.5	82.8 ±26.7	(120)	49 ±15 49 ±15		JENDL-2 76MUSGROVE+
23.545 23.464± 0.016 23.545± 0.01	1 (1) (1.5)	1.5	5820 ±1150	154 ±38 154 ±25	300 ±45 300 ±45	WGH= 76.0 ±15.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
23.680	1	0.5	1075 ±310	158 ±51	138 ±20		JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
23.61 ± 0.016 23.680 ± 0.01					138 ± 20	WGH= 7.0 ± 2.0	76CHRIEN+ 76MUSGROVE+
23.945 23.945 ± 0.01	1 (1)	1.5 (1.5)	223 ± 42	(120)	156 ± 25 156 ± 25		JENDL-2 76MUSGROVE+
24.370 24.266 ± 0.017 24.370 ± 0.01	1	0.5 (0.5)	1870 ± 470	97 ± 29 97 ± 20	92 ± 16 92 ± 16	WGH= 12.0 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
24.480 24.480 ± 0.01	1	0.5	280 ± 72	(120)	84 ± 20 84 ± 20		JENDL-2 76MUSGROVE+
24.580 24.49 ± 0.017 24.580 ± 0.01	1 (1)	1.5 (1.5)	3834 ± 783	126 ± 31	244 ± 35	WGH= 49.0 ± 10.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
24.920 24.831 ± 0.017 24.920 ± 0.01	1	0.5 (0.5)	945 ± 315	80 ± 30 80 ± 15	74 ± 12 74 ± 12	WGH= 6.0 ± 2.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
25.540 25.457 ± 0.018 25.540 ± 0.02	1 (1)	1.5 (1.5)	2670 ± 560	98 ± 24	189 ± 30 189 ± 30	WGH= 36.0 ± 7.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
25.610 25.544 ± 0.018 25.610 ± 0.02	1 (1)	1.5 (1.5)	800 ± 240	108 ± 35	190 ± 25 190 ± 25	WGH= 10.0 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
26.080 26.080 ± 0.02	1 (1)	1.5 (1.5)	(1740)	(160)	293 ± 40 293 ± 40		JENDL-2 76MUSGROVE+
26.190 26.190 ± 0.02	1 (1)	1.5 (1.5)	480 ± 89	(120)	192 ± 30 192 ± 30		JENDL-2 76MUSGROVE+
26.930 26.851 ± 0.019 26.930 ± 0.02	1 (1)	1.5 (1.5)	492 ± 246	120 ± 63	193 ± 30 193 ± 30	WGH= 6.0 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
27.150 27.056 ± 0.019 27.150 ± 0.02	1 (1)	1.5 (1.5)	2550 ± 500	137 ± 34	260 ± 40 260 ± 40	WGH= 31.0 ± 6.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
27.680 27.588 ± 0.019 27.680 ± 0.02	1	0.5	1163 ± 500	157 ± 81	138 ± 40 138 ± 40	WGH= 7.0 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
27.860 27.771 ± 0.02 27.860 ± 0.02	1 (1)	1.5 (1.5)	1500 ± 330	138 ± 38	252 ± 40	WGH= 18.0 ± 4.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
27.960 27.960 ± 0.02	1 (1)	1.5 (1.5)	1130 ± 210	(120)	217 ± 35 217 ± 35		JENDL-2 76MUSGROVE+
28.330 28.330 ± 0.02	1 (1)	0.5 (0.5)	360 ± 70	(120)	90 ± 15 90 ± 15		JENDL-2 76MUSGROVE+
28.700 28.614 ± 0.02 28.700 ± 0.02	0	0.5	10150 ± 1690	162 ± 37	159 ± 25	WGH= 60.0 ± 10.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
28.920 28.920 ± 0.02	1	1.5	157 ± 28	(120)	136 ± 20 136 ± 20		JENDL-2 76MUSGROVE+
29.090 29.090 ± 0.02	1	0.5	600 ± 160	(120)	100 ± 25 100 ± 25		JENDL-2 76MUSGROVE+
29.430 29.372 ± 0.021 29.430 ± 0.02	1	0.5	1885 ± 515	133 ± 48	124 ± 30	WGH= 11.0 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
29.720 29.720 ± 0.02	1	0.5	680 ± 180	(120)	102 ± 25 102 ± 25		JENDL-2 76MUSGROVE+
29.850 29.757 ± 0.021 29.850 ± 0.02	1 (1)	1.5 (1.5)	776 ± 260	155 ± 57 154 ± 25	258 ± 40 258 ± 40	WGH= 9.0 ± 3.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
30.170 30.170 ± 0.02	1	1.5	323 ± 72	(120)	175 ± 35 175 ± 35		JENDL-2 76MUSGROVE+
30.460 30.460 ± 0.02	1	0.5	137 ± 55	(120)	84 ± 25 84 ± 25		JENDL-2 76MUSGROVE+
30.610 30.585 ± 0.022 30.610 ± 0.02	0 (0)	0.5	43900 ± 8750	100 ± 28 100 ± 20	100 ± 20 100 ± 20	WGH= 251.0 ± 50.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
30.680 30.655 ± 0.022 30.680 ± 0.02	1 (1)	1.5 (1.5)	4115 ± 790	214 ± 52 215 ± 30	407 ± 60 407 ± 60	WGH= 47.0 ± 9.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
31.200 31.105 ± 0.022 31.200 ± 0.02	1 (1)	1.5 (1.5)	1763 ± 440	190 ± 55 190 ± 30	343 ± 50 343 ± 50	WGH= 20.0 ± 5.0	JENDL-2 76CHRIEN+ 76MUSGROVE+
31.54 31.437 ± 0.022	1	0.5	3190 ± 890	(120)		WGH= 18.0 ± 5.0	JENDL-2 76CHRIEN+
32.04 31.933 ± 0.023	1	0.5	5180 ± 1000	(120)		WGH= 29.0 ± 6.0	JENDL-2 76CHRIEN+
32.15 32.048 ± 0.023	1	0.5	6450 ± 1200	(120)		WGH= 36.0 ± 7.0	JENDL-2 76CHRIEN+
32.47	1	0.5	4000 ± 900	(120)			JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	AMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
32.362± 0.023						WGH= 22.0 ± 5.0	76CHRIEN+
33.43 33.315± 0.024	1	0.5	5100 ±1100	(120)		WGH= 28.0 ± 6.0	JENDL-2 76CHRIEN+
33.81 33.709± 0.024	1	0.5	3120 ±730	(120)		WGH= 17.0 ± 4.0	JENDL-2 76CHRIEN+
33.98 33.877± 0.025	1	0.5	7550 ±1700	(120)		WGH= 41.0 ± 9.0	JENDL-2 76CHRIEN+
36.16 36.035± 0.026	0	0.5	21600 ±3800	(85)		WGH= 114.0 ±20.0	JENDL-2 76CHRIEN+
36.92 36.792± 0.026	0	0.5	13400 ±2900	(85)		WGH= 70.0 ±15.0	JENDL-2 76CHRIEN+
37.20 37.068± 0.027	1	0.5	3470 ±960	(120)		WGH= 18.0 ± 5.0	JENDL-2 76CHRIEN+
37.77 37.635± 0.027	0	0.5	17100 ±3500	(85)		WGH= 88.0 ±18.0	JENDL-2 76CHRIEN+
38.35 38.217± 0.028	0	0.5	31700 ±6800	(85)		WGH= 162.0 ±35.0	JENDL-2 76CHRIEN+
38.80 38.668± 0.029	0	0.5	22600 ±4300	(85)		WGH= 115.0 ±22.0	JENDL-2 76CHRIEN+
39.59 39.455± 0.03	1	0.5	5560 ±1190	(120)		WGH= 28.0 ± 6.0	JENDL-2 76CHRIEN+
40.11 39.967± 0.03	1	0.5	3800 ±1000	(120)		WGH= 19.0 ± 5.0	JENDL-2 76CHRIEN+
40.86 40.721± 0.031	1	0.5	4040 ±1000	(120)		WGH= 20.0 ± 5.0	JENDL-2 76CHRIEN+
41.44 41.298± 0.032	1	0.5	5080 ±1200	(120)		WGH= 25.0 ± 6.0	JENDL-2 76CHRIEN+
41.82 41.673± 0.032	1	0.5	6530 ±1200	(120)		WGH= 32.0 ± 6.0	JENDL-2 76CHRIEN+
43.08 42.929± 0.033	1	0.5	11200 ±2300	(120)		WGH= 54.0 ±11.0	JENDL-2 76CHRIEN+
43.12 42.97 ± 0.033	1	0.5	2280 ±830	(120)		WGH= 11.0 ± 4.0	JENDL-2 76CHRIEN+
44.12 43.967± 0.033	1	0.5	2310 ±840	(120)		WGH= 11.0 ± 4.0	JENDL-2 76CHRIEN+
44.24 44.084± 0.033	1	0.5	3360 ±1050	(120)		WGH= 18.0 ± 5.0	JENDL-2 76CHRIEN+
44.49 44.334± 0.033	1	0.5	10700 ±2300	(120)		WGH= 51.0 ±11.0	JENDL-2 76CHRIEN+
44.86 44.7 ± 0.033	0	0.5	15200 ±3400	(85)		WGH= 72.0 ±16.0	JENDL-2 76CHRIEN+
45.28 45.124± 0.034	0	0.5	61000 ±13000	(85)		WGH= 287.0 ±60.0	JENDL-2 76CHRIEN+
45.82 45.657± 0.034	0	0.5	27800 ±6400	(85)		WGH= 130.0 ±30.0	JENDL-2 76CHRIEN+
45.98 45.823± 0.035	1	0.5	3210 ±1070	(120)		WGH= 15.0 ± 5.0	JENDL-2 76CHRIEN+
46.11 45.949± 0.035	0	0.5	15400 ±3430	(85)		WGH= 72.0 ±16.0	JENDL-2 76CHRIEN+
47.30 47.128± 0.036	1	0.5	3910 ±1300	(120)		WGH= 18.0 ± 6.0	JENDL-2 76CHRIEN+
48.60 48.428± 0.037	0	0.5	28800 ±5900	(85)		WGH= 131.0 ±27.0	JENDL-2 76CHRIEN+
49.25 49.144± 0.038	1	0.5	3100 ±1600	(120)		WGH= 14.0 ± 7.0	JENDL-2 76CHRIEN+
49.44 49.265± 0.038	1	0.5	9100 ±2900	(120)		WGH= 41.0 ±13.0	JENDL-2 76CHRIEN+
49.97 49.786± 0.039	0	0.5	20300 ±6700	(85)		WGH= 91.0 ±30.0	JENDL-2 76CHRIEN+
52.26 52.071± 0.04	1	0.5	9130 ±4600	(120)		WGH= 40.0 ±20.0	JENDL-2 76CHRIEN+
52.79 52.6 ± 0.04	0	0.5	22000 ±7000	(85)		WGH= 95.0 ±30.0	JENDL-2 76CHRIEN+

A.7 Molybdenum-100

ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-0.172	0	0.5	171.5	(64)		COM= M-L-B-W	JENDL-2
0.0972 0.0974 0.0974± 0.0004 0.09741 0.097 0.0972	1 1 1 1 1	1.5 0.5 1.5 1.5	0.18 ± 0.03 0.38 0.361 ± 0.030 0.468 ± 0.02	(80) 75.0 250.0 ± 100.0	0.36 ± 0.03 0.360 ± 0.030 0.36 ± 0.03	GT = 75.38 WGN= 0.41 ± 0.1	JENDL-2 JENDL-1 69SHW+ 71WEIGMANN+ 76MUGHABCHAB+ 79WEIGMANN+
0.3637 0.3638 0.367± 0.015 0.36411 0.3637	0 0 0 0 0	0.5 0.5 0.5 0.5	640 ± 20 800.0 1000.0 ± 120.0 (522 ± 140) 640.0 ± 20.0	70 ± 2 68.0 (260.0 ± 80.0) 71 ± 7 70.0 ± 7.0	63 ± 6 63 ± 6 63.0 ± 6.0	GT = 668.0 GND= 52.0 ± 6.0	JENDL-2 JENDL-1 56HARVEY+ 71WEIGMANN+ 79WEIGMANN+
0.5074 0.5071 0.50711 0.5064	1 0 1 1	0.5 0.5 0.5	4.4 ± 0.6 4.3 4.3 ± 0.4 5.4 ± 0.2	(80) 75.0	4.2 ± 0.3 4.2 ± 0.3 4.2 ± 0.3	GT = 79.3	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
0.5361 0.5358 0.53581 0.5351	1 0 1 1	0.5 0.5 0.5	4.2 ± 0.6 4.1 4.1 ± 0.3 5.8 ± 0.2	(80) 103.0	4.0 ± 0.3 4.0 ± 0.3 4.0 ± 0.3	GT = 107.1	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
0.7874 0.78668 0.78568 0.7854	1 0 1 1	0.5 0.5 0.5	5.8 ± 0.8 5.6 5.6 ± 0.5 6.7 ± 0.4	(80) 75.0	5.4 ± 0.4 5.4 ± 0.4 5.4 ± 0.4	GT = 80.6	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
1.0707 1.0691 1.0693 1.0662	1 1 1 1	1.5 0.5 0.5	65 ± 4 350.0 420 ± 80 130.0 ± 7.0	104 ± 6 103.0 98 ± 9 208.0 ± 28.0	80 ± 7 80 ± 7 80.0 ± 7.0	GT = 453.0	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
1.2630 1.2607 1.2602 1.2595	1 1 1 1	1.5 0.5 1.5	50 ± 3 300.0 315 ± 30 100.0 ± 6.0	89 ± 5 90.0 80 ± 6 178.0 ± 28.0	64 ± 6 64 ± 6 64.0 ± 6.0	GT = 390.0	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
1.4074 1.4038 1.4034	0 0 0	0.5 0.5	116 ± 6 116.0 ± 6.0	46 ± 2 46.0 ± 4.0	33 ± 3 33 ± 3 33.0 ± 3.0		JENDL-2 71WEIGMANN+ 79WEIGMANN+
1.7004 1.697 1.6964 1.6954	1 1 1 1	1.5 0.5 1.5	180 ± 10 1000.0 1150 ± 100 360.0 ± 20.0	69 ± 4 118.0 103 ± 9 136.0 ± 13.0	100 ± 9 100 ± 9 100.0 ± 9.0	GT = 1118.0	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
1.7695 1.7648 1.7648 1.7645	1 0 1 1	0.5 0.5 0.5	21 ± 2 20.0 20.1 ± 5.8 21.0 ± 2.0	89 ± 9 75.0	17 ± 2 17.0 ± 1.6 17.0 ± 2.0	GT = 95.0	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
1.9411 1.9372 1.9361 1.9356	0 0 0 0	0.5 0.5 0.5	1010 ± 50 1250.0 347 ± 138 1010.0 ± 50.0	56 ± 3 55.0 62 ± 9 56.0 ± 5.0	59 ± 5 53 ± 5 53.0 ± 5.0	GT = 1305.0	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
2.056 2.0617 2.0617 2.06	1 0 1 1	0.5 0.5 0.5	6.5 ± 0.6 6.3 6.3 ± 0.8 5.5 ± 2.5	(80) 75.0	6 ± 0.7 6.0 ± 0.7 6.0 ± 0.7	GT = 81.3	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
2.425 2.42 2.4186 2.418	1 1 1 1	1.5 0.5 1.5	260 ± 20 414.0 414 ± 155 520.0 ± 40.0	56 ± 4 118.0 118 ± 25 112.0 ± 10.0	92 ± 8 92 ± 8 92.0 ± 8.0	GT = 532.0	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
2.636 2.6305 2.6291 2.628	0 0 0 0	0.5 0.5 0.5	410 ± 30 213.0 410.0 ± 30.0	65 ± 5 76.0 65.0 ± 6.0	56 ± 5 56.0 ± 5.0	GT = 289.0	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
2.671 2.6638 2.663	1 1 1	1.5	6 ± 2 12.2 ± 2.1 12.0 ± 4.0	66 ± 23	11 ± 1 11 ± 1.1 11.0 ± 1.0		JENDL-2 71WEIGMANN+ 79WEIGMANN+
2.952 2.95 2.9516 2.953	1 0 1 1	1.5 0.5 1.5	25.8 ± 2.6 57.0 42.0 ± 6.0	(80) 75.0	39 ± 2 39 ± 4 39.0 ± 4.0	GT = 132.0	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
3.015 3.006 3.0019 3.003	0 0 0 0	0.5 0.5 0.5	1950 ± 80 3000.0 893 ± 258 1950.0 ± 80.0	50 ± 2 51.0 51 ± 5 50.0 ± 5.0	49 ± 5 49 ± 5 49.0 ± 5.0	GT = 3051.0	JENDL-2 JENDL-1 71WEIGMANN+ 79WEIGMANN+
3.878 3.065 3.0690 3.078± 0.003 3.069	1 0 1 1 1	0.5 0.5 1.5	101 ± 7 145.0 145 ± 46 144 ± 46 100.0 ± 8.0	110 ± 14 65.0 65 ± 17 83 ± 30 133.0 ± 19.0	53 ± 5 45 ± 4 53 ± 6 57.0 ± 3.0	GT = 210.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+ 79WEIGMANN+
3.269 3.2615 3.2608 3.269± 0.003 3.259	1 0 1 1 1	1.5 0.5 1.5	69 ± 6 331.0 1000 ± 500 137.0 ± 7.0	104 ± 13 83.0 54 ± 10 231.0 ± 24.0	83 ± 7 66 ± 7 81 ± 9 86.0 ± 3.0	GT = 414.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+ 79WEIGMANN+
3.547 3.5393 3.547± 0.003 3.536	1 1 1 1	1.5	35 ± 10 52.0 ± 5.0	(80)	46 ± 8 79 ± 8 42 ± 5 44.0 ± 2.0		JENDL-2 71WEIGMANN+ 76MUSGROVE+ 79WEIGMANN+
3.557	1	0.5	99 ± 6	73 ± 4	42 ± 0.3		JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3.557± 0.003 3.547			^a 99.0 ± 6.0	^b 73.0 ± 5.0	43 ± 5 42.0 ± 2.0		76MUSGROVE+ 79WEIGMANN+
3.613 3.6017 3.613± 0.003 3.602	1	1.5	61 ± 5	80 ± 12	70 ± 10 59 ± 6 68 ± 8		JENDL-2 71WEIGMANN+ 76MUSGROVE+ 79WEIGMANN+
4.165 4.151 4.1510 4.165± 0.003 4.151	1 0	1.5 0.5	8 ± 3 20.1 ± 5.9 ^a 16.0 ± 5.0	99 ± 32 75.0	15 ± 1 17.0 ± 1.7 15 ± 2 14.0 ± 1.0	GT = 95.1 COM= FROM-CAP-AREA	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+ 79WEIGMANN+
4.521 4.506 4.5042 4.521± 0.002 4.506	0 0 0	0.5 0.5	870 ± 13 211.0 ^a 211 ± 70 ^a 1000 ± 500 ^a 870.0 ± 50.0	81 ± 5 97.0 ^b 97 ± 30 83 ± 12 ^b 82.0 ± 3.0	74 ± 4 67 ± 6 85 ± 10 75.0 ± 3.0	GT = 308.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+ 79WEIGMANN+
4.559 4.5431 4.559± 0.003 4.545	1 1	1.5 (1.5)	87.5 ± 7.5 ^a 200 ^a 175.0 ± 15.0	89 ± 10 82 ± 30 ^b 194.0 ± 24.0	88 ± 7 75 ± 7 90 ± 11 92.0 ± 4.0		JENDL-2 71WEIGMANN+ 76MUSGROVE+ 79WEIGMANN+
4.745 4.727 4.7275 4.745± 0.003 4.731	0 0 0	0.5 0.5	195 ± 15 202.0 ^a 202 ± 108 ^a 500 ^a 195.0 ± 15.0	68 ± 7 59.0 ^b 59 ± 30 54 ± 10 ^b 72.0 ± 5.0	50 ± 3 46 ± 4 49 ± 6 53.0 ± 3.0	GT = 261.0	JENDL-2 JENDL-1 71WEIGMANN+ 76MUSGROVE+ 79WEIGMANN+
4.788 4.788± 0.003 4.773	1 1	0.5)	15 ± 5 14 ± 2 ^a 15.0 ± 5.0	97 ± 33	13 ± 2 13 ± 2 13.0 ± 2.0	COM= FROM-CAP-AREA	JENDL-2 76MUSGROVE+ 79WEIGMANN+
5.168 5.168± 0.003 5.152	0 0 0	0.5 0.5	5480 ± 96 5000 ± 1000 5500.0 ± 200.0	70 ± 5 60 ± 8 ^b 73.0 ± 4.0	70 ± 5 60 ± 8 72.0 ± 4.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
5.250 5.250± 0.003 5.234	1	0.5	63 ± 6	(80)	35 ± 0.5 36 ± 4 35.0 ± 3.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
5.636 5.636± 0.003 5.619	0 0 0	0.5 0.5	7700 ± 300 7000 ± 1000 7700.0 ± 300.0	73 ± 4 67 ± 8 ^b 75.0 ± 4.0	72.4 ± 3 66 ± 8 74.0 ± 4.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
5.732 5.732± 0.003 5.713	1	0.5	19.3 ± 2	(80)	15.5 ± 0.5 16 ± 2 15.0 ± 2.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
6.005 6.005± 0.004 5.988	1 1	0.5 (0.5)	660 ± 40 ^a 660.0 ± 40.0	61 ± 4 ^b 60.0 ± 4.0	55 ± 1 57 ± 7 55.0 ± 4.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
6.126 6.126± 0.004 6.105	1 1	1.5 (1.5)	175 ± 15 ^a 350.0 ± 30.0	75 ± 6 ^b 150.0 ± 10.0	105 ± 0.4 104 ± 12 105.0 ± 5.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
6.393 6.393± 0.004 6.372	1 1 1	1.5 (1.5) (1.5)	275 ± 25 ^a 500 ^a 550.0 ± 50.0	80 ± 7 77 ± 10 ^b 160.0 ± 9.0	124 ± 0.4 123 ± 14 124.0 ± 6.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
6.680 6.680± 0.004 6.67	1 1	1.5 (1.5)	140 ± 15 ^a 280.0 ± 30.0	80 ± 8 ^b 156.0 ± 14.0	100 ± 0.4 101 ± 12 100.0 ± 5.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
7.085 7.085± 0.004 7.072	1 1	1.5	138 ± 20 ^a 275.0 ± 40.0	79 ± 11 ^b 157.0 ± 19.0	100 ± 6 100 ± 12 100.0 ± 5.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
7.273 7.273± 0.005 7.249	0 0 0	0.5 0.5	4680 ± 220 1000 ± 1000 4680.0 ± 220.0	70 ± 8 85 ± 10 ^b 66.0 ± 5.0	69 ± 8 84 ± 10 65.0 ± 5.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
7.828 7.828± 0.004 7.802	1 1	0.5	162 ± 16	(80)	53 ± 2 55 ± 7 50.0 ± 10.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
7.842 7.842± 0.004 7.818	1	0.5	269 ± 31	(80)	61 ± 3 59 ± 7 66.0 ± 10.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
7.673 7.673± 0.004 7.649	0 0 0	0.5 0.5	6000 ± 300 3000 ± 2000 6000.0 ± 300.0	51 ± 5 49 ± 7 ^b 59.0 ± 10.0	51 ± 4 48 ± 6 58.0 ± 10.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
7.703 7.703± 0.004 7.679	1 1	0.5 (0.5)	1008 ± 1000 ^a 1000 ± 1000	64 ± 64 73 ± 15	80 ± 6 88 ± 8 56.0 ± 6.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
7.940 7.940± 0.004 7.914	1	1.5	105 ± 15 ^a 210.0 ± 30.0	62 ± 9 ^b 122.0 ± 16.0	78 ± 2 81 ± 10 77.0 ± 6.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
8.215 8.215± 0.004 8.188	1 1 1	1.5 (1.5) (1.5)	117 ± 58 ^a 200 ^a 640.0 ± 70.0	89 ± 45 110 ± 40 ^b 119.0 ± 8.0	101 ± 3 107 ± 13 100.0 ± 6.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
8.440 8.440± 0.004 8.415	0 0	0.5 0.5	470 ± 60 ^a 470.0 ± 60.0	59 ± 8 ^b 57.0 ± 8.0	52 ± 2 55 ± 7 51.0 ± 5.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
8.663± 0.004					17 ± 2		76MUSGROVE+
8.800	0	0.5	1030 ± 100	62 ± 6	59 ± 1		JENDL-2

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ENERGY (KEY)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	AMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
8.800± 0.005 8.771	0	0.5	^A 1030.0 ±100.0	^B 61.0 ± 5.0	60 ± 7 58.0 ± 5.0		76MUSGROVE+ 79WEIGMANN+
9.008 9.008± 0.005 8.978	1 1	1.5 (1.5)	550 ±50 ^A 1100.0 ±100.0	78 ± 7 ^B 154.0 ± 9.0	136 ± 2 140 ±16 135.0 ± 8.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
9.253 9.253± 0.005 9.224	1	0.5	32 ± 4	(80)	23 ± 2 24 ± 3 20.0 ± 4.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
9.610 9.610± 0.005 9.581	1 1	1.5 (1.5)	205 ±25 ^A 410.0 ±50.0	75 ± 9 ^B 147.0 ±13.0	110 ± 3 115 ±14 108.0 ± 8.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
9.658 9.658± 0.005 9.626	0 0 0	0.5 0.5	2900 ±200 ^A 5000 ±2500 ^A 2900.0 ±200.0	67 ± 5 71 ±15 ^B 65.0 ± 6.0	66 ± 3 70 ± 9 64.0 ± 6.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
9.833 9.833± 0.005 9.805	1	0.5	210 ±40 ^A 210.0 ±40.0	79 ±14 ^B 71.0 ± 9.0	54 ± 2 57 ± 7 53.0 ± 5.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
9.943 9.943± 0.005 8.809	1	0.5	88 ± 8	(80)	37 ± 2 39 ± 5 35.0 ± 4.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
10.21 10.210± 0.005 10.179	1 1	1.5	825 ±60 ^A 1650.0 ±120.0	59 ± 4 ^B 118.0 ± 9.0	111 ± 2 114 ±14 110.0 ± 8.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
10.42 10.420± 0.005 10.387	1	1.5	138 ±30 ^A 275.0 ±60.0	57 ±12 ^B 115.0 ±19.0	80 ± 1 79 ±10 81.0 ± 8.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
10.648 10.648± 0.005 10.614	1 1	0.5 (0.5)	670 ±80 ^A 670.0 ±80.0	61 ± 7 ^B 61.0 ± 7.0	56 ± 6 56 ± 7 56.0 ± 6.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
10.94 10.940± 0.005 10.905	1 1	1.5 (1.5)	165 ±30 ^A 330.0 ±60.0	70 ±13 ^B 139.0 ±16.0	98 ± 0.4 99 ±13 98.0 ± 8.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
11.055 11.055± 0.005 11.017	1 1	1.5 (1.5)	103 ±30 ^A 205.0 ±60.0	92 ±27 ^B 177.0 ±100.0	97 ± 3 102 ±14 95.0 ± 9.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
11.398 11.398± 0.005 11.36	0 0 1	0.5	778 ±110 ^A 4000 ±2500 ^A 775.0 ±85.0	112 ±20 119 ±30 ^B 104.0 ±10.0	98 ±10 115 ±15 92.0 ± 9.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
11.593 11.593± 0.005 11.554	1	0.5	335 ±60 ^A 335.0 ±60.0	76 ±14 ^B 75.0 ± 9.0	62 ± 1 63 ± 8 61.0 ± 7.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
11.728 11.728± 0.005 11.693	1 1	0.5 (0.5)	2900 ±200 ^A 2900.0 ±200.0	75 ± 6 ^B 77.0 ± 9.0	73 ± 2 71 ± 9 75.0 ± 9.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
11.985 11.985± 0.005 11.942	0 0 0	0.5 0.5	12000 ±600 ^A 10000 ±3000 ^A 12000.0±600.0	68 ± 4 71 ±12 ^B 66.0 ± 8.0	68 ± 2 70 ±10 66.0 ± 8.0		JENDL-2 76MUSGROVE+ 79WEIGMANN+
12.152 12.113	1	0.5	377 ±55	(80)	66 ± 7 66.0 ± 7.0		JENDL-2 79WEIGMANN+
12.463 12.423	1 1	0.5	3200 ±200 ^A 3200.0 ±200.0	83 ±11 ^B 83.0 ± 9.0	81 ± 9 81.0 ± 9.0		JENDL-2 79WEIGMANN+
12.568 12.527	1	0.5	220 ±70 ^A 220.0 ±70.0	92 ±31 ^B 92.0 ±25.0	65 ± 8 65.0 ± 8.0		JENDL-2 79WEIGMANN+
12.642 12.601	1	0.5	190 ±70 ^A 190.0 ±70.0	38 ±15 ^B 38.0 ± 8.0	32 ± 5 32.0 ± 5.0		JENDL-2 79WEIGMANN+
12.688 12.647	1	0.5	580 ±80 ^A 580.0 ±80.0	94 ±16 ^B 94.0 ±10.0	81 ± 8 81.0 ± 8.0		JENDL-2 79WEIGMANN+
12.725 12.684	1	1.5	165 ±35 ^A 330.0 ±70.0	79 ±19 ^B 158.0 ±29.0	107 ±11 107.0 ±11.0		JENDL-2 79WEIGMANN+
13.060 13.018	1	0.5	670 ±100 ^A 670.0 ±100.0	68 ±13 ^B 68.0 ± 8.0	62 ± 7 62.0 ± 7.0		JENDL-2 79WEIGMANN+
13.429 13.385	1	1.5	91 ±13	(80)	85 ± 9 85.0 ± 9.0		JENDL-2 79WEIGMANN+
13.545 13.501	1 1	1.5 (1.5)	2900 ±200 ^A 5800.0 ±400.0	80 ± 9 ^B 160.0 ±14.0	156 ±14 156.0 ±14.0		JENDL-2 79WEIGMANN+
13.941 13.896	1	0.5	570 ±90 ^A 570.0 ±90.0	73 ±16 ^B 73.0 ±11.0	64 ±10 65.0 ±10.0		JENDL-2 79WEIGMANN+
13.997 13.952	0 0	0.5 0.5	2440 ±210 ^A 2440.0 ±210.0	70 ±11 ^B 70.0 ± 9.0	68 ± 9 68.0 ± 9.0		JENDL-2 79WEIGMANN+
14.203 14.157	1 1	0.5 (0.5)	990 ±140 ^A 990.0 ±140.0	58 ±12 ^B 58.0 ± 8.0	55 ± 8 55.0 ± 8.0		JENDL-2 79WEIGMANN+
14.748 14.701	0 0	0.5 0.5	2160 ±240 ^A 2160.0 ±240.0	55 ±10 ^B 55.0 ± 8.0	54 ± 8 54.0 ± 8.0		JENDL-2 79WEIGMANN+
15.261 15.211	1 1	1.5 (1.5)	158 ±50 ^A 315.0 ±100.0	73 ±25 ^B 147.0 ±44.0	100 ±11 100.0 ±11.0		JENDL-2 79WEIGMANN+
15.346	1	1.5	2375 ±175	80 ± 9	154 ±14		JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEDUS	REFERENCE
15.296	1		^a 4750.0 ±350.0	^b 159.0 ±14.0	154.0 ±14.0		79WEIGMANN+
15.581 15.53	1	0.5	320 ±51	(80)	84 ± 8 84.0 ± 8.0		JENDL-2 79WEIGMANN+
15.835 15.584	0 0	0.5 0.5	^a 22200.0±500.0	^b 60.0 ± 9.0	60 ± 9 60.0 ± 9.0		JENDL-2 79WEIGMANN+
15.757 15.706	1 1	1.5 (1.5)	^a 368 ±75 ^a 735.0 ±150.0	^b 89 ±20 ^b 178.0 ±19.0	143 ±12 143.0 ±12.0		JENDL-2 79WEIGMANN+
15.898 15.946	1 1	1.5	^a 2500 ±200 ^a 5000.0 ±400.0	^b 60 ± 9 ^b 121.0 ±14.0	118 ±14 118.0 ±14.0		JENDL-2 79WEIGMANN+
16.017 15.965	1 1	1.5 (1.5)	^a 355 ±80 ^a 710.0 ±160.0	^b 80 ±19 ^b 159.0 ±18.0	130 ±12 130.0 ±12.0		JENDL-2 79WEIGMANN+
16.470 16.417	1 1	0.5	^a 5800 ±400 ^a 5800.0 ±400.0	^b 91 ±12 ^b 91.0 ±10.0	90 ±10 90.0 ±10.0		JENDL-2 79WEIGMANN+
16.666 16.612	0 0	0.5 0.5	^a 14300 ±500 ^a 14300.0±500.0	^b 78 ±12 ^b 78.0 ±12.0	78 ±12 78.0 ±12.0		JENDL-2 79WEIGMANN+
16.800 16.746	1 1	1.5 (1.5)	^a 590 ±80 ^a 1180.0 ±160.0	^b 87 ±15 ^b 174.0 ±18.0	152 ±15 152.0 ±15.0		JENDL-2 79WEIGMANN+
16.925 16.87	0 0	0.5 0.5	^a 1660 ±240 ^a 1660.0 ±240.0	^b 80 ±16 ^b 90.0 ±12.0	76 ±11 76.0 ±11.0		JENDL-2 79WEIGMANN+
17.132 17.076	1 1	1.5 (1.5)	^a 450 ±100 ^a 900.0 ±200.0	^b 100 ±24 ^b 199.0 ±23.0	163 ±15 163.0 ±15.0		JENDL-2 79WEIGMANN+
17.525 17.468	1 1	1.5 (1.5)	^a 225 ±80 ^a 450.0 ±160.0	^b 97 ±36 ^b 195.0 ±64.0	136 ±14 136.0 ±14.0		JENDL-2 79WEIGMANN+
17.696 17.639	0 0	0.5 0.5	^a 26200 ±800 ^a 26200.0±800.0	^b 49 ±15 ^b 49.0 ±15.0	49 ±15 49.0 ±15.0		JENDL-2 79WEIGMANN+
18.009 17.95	1	1.5	560 ±80	(80)	140 ±14 140.0 ±14.0		JENDL-2 79WEIGMANN+
18.203						COM= UNRESOLVED	79WEIGMANN+
18.545 18.584	1 1	1.5 (1.5)	^a 350 ±90 ^a 700.0 ±180.0	^b 80 ±22 ^b 160.0 ±22.0	130 ±14 130.0 ±14.0		JENDL-2 79WEIGMANN+
19.064 19.002	1	1.5	82 ±13	(80)	81 ±10 81.0 ±10.0		JENDL-2 79WEIGMANN+
19.355 19.292	0 0	0.5 0.5	^a 2650 ±350 ^a 2650.0 ±350.0	^b 62 ±12 ^b 62.0 ± 8.0	61 ± 8 61.0 ± 8.0		JENDL-2 79WEIGMANN+
19.663 19.599	1 1	1.5 (1.5)	^a 285 ±105 ^a 570.0 ±210.0	^b 108 ±41 ^b 217.0 ±55.0	157 ±15 157.0 ±15.0		JENDL-2 79WEIGMANN+
19.895 19.83	1 1	1.5 (1.5)	^a 2200 ±250 ^a 4400.0 ±500.0	^b 133 ±18 ^b 265.0 ±21.0	250 ±20 250.0 ±20.0		JENDL-2 79WEIGMANN+
20.084 20.029	0 0	0.5 0.5	^a 13500 ±600 ^a 13500.0±600.0	^b 84 ±17 ^b 84.0 ±16.0	83 ±16 83.0 ±16.0		JENDL-2 79WEIGMANN+
20.147 20.081	1	1.5	86 ±17	(80)	83 ±14 83.0 ±14.0		JENDL-2 79WEIGMANN+
20.563 20.496	1	0.5	36 ± 9	(80)	25 ± 6 25.0 ± 6.0		JENDL-2 79WEIGMANN+
20.572 20.505	1	0.5	62 ±19	(80)	35 ±10 35.0 ±10.0		JENDL-2 79WEIGMANN+
20.735 20.669	0 0	0.5 0.5	^a 10400 ±600 ^a 10400.0±600.0	^b 50 ± 9 ^b 50.0 ± 9.0	50 ± 9 50.0 ± 9.0		JENDL-2 79WEIGMANN+
20.877 20.809	1	1.5	^a 1245 ±175 ^a 2490.0 ±350.0	^b 87 ±16 ^b 173.0 ±19.0	162 ±18 162.0 ±18.0		JENDL-2 79WEIGMANN+
21.213 21.144	1 1	1.5	^a 3200 ±350 ^a 6400.0 ±700.0	^b 102 ±15 ^b 204.0 ±21.0	198 ±20 198.0 ±20.0		JENDL-2 79WEIGMANN+
21.571 21.501	1 1	1.5 (1.5)	^a 5500 ±500 ^a 11000.0±1000.0	^b 130 ±30 ^b 259.0 ±22.0	254 ±22 254.0 ±22.0		JENDL-2 79WEIGMANN+
21.810 21.739	1 1	1.5 (1.5)	^a 1410 ±300 ^a 2820.0 ±430.0	^b 110 ±26 ^b 220.0 ±22.0	204 ±20 204.0 ±20.0		JENDL-2 79WEIGMANN+
22.174 22.102	0 0	0.5 0.5	^a 7900 ±700 ^a 7900.0 ±700.0	^b 76 ±12 ^b 76.0 ±10.0	75 ±10 75.0 ±10.0		JENDL-2 79WEIGMANN+
22.232 22.159	1	1.5	377 ±60	(80)	132 ±16 132.0 ±16.0		JENDL-2 79WEIGMANN+
22.400 22.327	0 0	0.5 0.5	^a 7600 ±600 ^a 7600.0 ±600.0	^b 81 ±14 ^b 81.0 ±12.0	80 ±12 80.0 ±12.0		JENDL-2 79WEIGMANN+
22.822 22.748	0 0	0.5 0.5	^a 13700 ±700 ^a 13700.0±700.0	^b 61 ±10 ^b 61.0 ± 9.0	61 ± 9 61.0 ± 9.0		JENDL-2 79WEIGMANN+
22.960 22.886	1 1	1.5 (1.5)	^a 2900 ±350 ^a 5800.0 ±700.0	^b 116 ±17 ^b 237.0 ±21.0	223 ±20 223.0 ±20.0		JENDL-2 79WEIGMANN+
23.153 23.077	1 1	1.5	^a 2000 ±300 ^a 4000.0 ±600.0	^b 77 ±15 ^b 154.0 ±19.0	148 ±18 148.0 ±18.0		JENDL-2 79WEIGMANN+
23.403 23.327	0 0	0.5 0.5	^a 6000 ±600 ^a 6000.0 ±600.0	^b 49 ±11 ^b 49.0 ±10.0	49 ±10 49.0 ±10.0		JENDL-2 79WEIGMANN+
23.521	1	0.5	276 ±46	(80)	62 ± 8		JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (MILLI-EV)	ORIGIN WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
23.444					62.0 ± 8.0		79WEIGMANN+
23.594 23.517	1	0.5	72 ±15	(80)	38 ± 7 38.0 ± 7.0		JENDL-2 79WEIGMANN+
23.890 23.782	0 0	0.5 0.5	18200 ±800 ^a 18200.0±800.0	63 ±25 ^b 63.0 ±25.0	63 ±25 63.0 ±25.0		JENDL-2 79WEIGMANN+
23.914 23.836	1	0.5	56 ±18	(80)	33 ±10 33.0 ±10.0		JENDL-2 79WEIGMANN+
24.236 24.156	1	1.5	123 ±26	(80)	97 ±20 97.0 ±20.0		JENDL-2 79WEIGMANN+
24.341 24.262	1	0.5	2900 ±400 ^a 2900.0 ±400.0	46 ±16 ^b 46.0 ±15.0	45 ±15 45.0 ±15.0		JENDL-2 79WEIGMANN+
24.438 24.358	1 1	1.5	2200 ±300 ^a 4400.0 ±600.0	110 ±20 ^b 221.0 ±26.0	210 ±25 210.0 ±25.0		JENDL-2 79WEIGMANN+
24.590 24.51	0 0	0.5 0.5	18500 ±900 ^a 18500.0±900.0	94 ±21 ^b 94.0 ±20.0	94 ±20 94.0 ±20.0		JENDL-2 79WEIGMANN+
24.982 24.9	1 1	1.5	1950 ±300 ^a 3900.0 ±600.0	71 ±19 ^b 142.0 ±31.0	137 ±30 137.0 ±30.0		JENDL-2 79WEIGMANN+
25.222 25.14	1	1.5	470 ±170 ^a 940.0 ±340.0	86 ±36 ^b 173.0 ±41.0	146 ±30 146.0 ±30.0		JENDL-2 79WEIGMANN+
25.740 25.656	1 1	1.5	4250 ±450 ^a 8500.0 ±900.0	90 ±18 ^b 180.0 ±31.0	176 ±30 176.0 ±30.0		JENDL-2 79WEIGMANN+
25.827 25.743	0 0	0.5 0.5	8700 ±700 ^a 8700.0 ±700.0	42 ±20 ^b 42.0 ±20.0	42 ±20 42.0 ±20.0		JENDL-2 79WEIGMANN+
25.976 25.89	1 1	1.5	5200 ±650 ^a 10400.0±1100.0	102 ±19 ^b 204.0 ±31.0	200 ±30 200.0 ±30.0		JENDL-2 79WEIGMANN+
26.166 26.08	1	1.5	700 ±200 ^a 1400.0 ±400.0	72 ±26 ^b 143.0 ±34.0	130 ±30 130.0 ±30.0		JENDL-2 79WEIGMANN+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-6.4	0			100.0		GND= 0.5	70WATANABE+B
5.59	0	4.5	3.77 ± 0.34	188.1 ± 4.5		GT = 171.5 ± 4.5 COM= GN ADJUSTED	JENDL-2
5.64	0	4.5	2.2	260.0		GT = 262.2	JENDL-1
5.6						Q2S= 130.0 ± 5.0	53PAKLIICK1+
5.65 ± 0.05						GT = 260.0 ± 20.0 WGO= 0.72 ± 0.15 S = 1400.0 ± 200.0	58PATTENDEN
5.62			^a 2.6 ± 0.3				58SLAUGHTER+
5.6	0			134.0 ± 4.0		GND= 1.84 ± 0.15 COM= AREA-ANALYSIS	70WATANABE+A
5.6	0			135.0		GND= 1.81 COM= SHAPE-ANALYSIS	70WATANABE+B
5.65			2.78 ± 0.77	263.0 ± 6.5			73CHOU+
5.55						GT = 175.0 WGO= 1.3 COM= SHAPE-ANALYSIS	78FISCHER+A
5.55						GT = 175.0 WGO= 1.35 COM= SHAPE-ANALYSIS	78FISCHER+B
5.58 ± 0.01						GT = 171.5 ± 4.5 WGO= 1.45 ± 0.07	81FISCHER+
20.32	0	4.5	6.86 ± 0.14	169.3 ± 3.9		GT = 176.0 ± 3.9 COM= GN ADJUSTED	JENDL-2
20.3	0	4.5	^a 5.5	260.0		GT = 265.5	JENDL-1
20.4			4.5 ± 1.0				58SLAUGHTER+
20.3	0			140.0 ± 7.0		GND= 1.66 ± 0.03 COM= AREA-ANALYSIS	70WATANABE+A
20.3	0			150.0		GND= 1.69 COM= SHAPE-ANALYSIS	70WATANABE+B
21.1 ± 0.02				150.0 ± 30.0		WGO= 1.61 ± 0.26	73ADAMCHUK+
20.3			6.48 ± 1.68	263.9 ± 9.8		GT = 176.0 WGO= 1.37 COM= SHAPE-ANALYSIS	73CHOU+
20.18						GT = 172.0 WGO= 1.38 COM= AREA-ANALYSIS	78FISCHER+B
20.32 ± 0.01						GT = 176.0 ± 3.9 WGO= 1.49 ± 0.015	81FISCHER+
39.87	0	4.5	1.26 ± 0.13	170 ± 30	0.62 ± 0.18		JENDL-2
39.9	0	4.5	^a 1.2	71.0		GT = 72.2	JENDL-1
39.9			1.2 ± 0.2				58SLAUGHTER+
39.9	0			71.0 ± 13.0		GND= 0.24 ± 0.02	70WATANABE+A
39.75 ± 0.05				170.0 ± 30.0		WGO= 0.22 ± 0.02	73ADAMCHUK+
39.87					0.44 ± 0.04	ARG= 45.8	77LITTLE+
56.66	0	4.5	4.43 ± 0.08	150 ± 30	2.15 ± 1.01		JENDL-2
57.0	0	4.5	^a 3.0	104.0		GT = 107.0	JENDL-1
57.2			2.8 ± 0.4				58SLAUGHTER+
56.9	0			104.0 ± 13.0		GND= 0.62 ± 0.04	70WATANABE+A
56.82 ± 0.08				150.0 ± 30.0		WGO= 0.6 ± 0.01	73ADAMCHUK+
56.66					1.14 ± 0.10	ARG= 83.8	77LITTLE+
61.42	1	4.5	0.06 ± 0.02	(170)	0.03 ± 0.003		JENDL-2
61.4 ± 0.09					0.03 ± 0.003	WGO= 0.009 ± 0.002	73ADAMCHUK+
61.42						ARG= 1.7	77LITTLE+
67.62	1	4.5	0.066 ± 0.02	(170)	0.033 ± 0.003		JENDL-2
67.53 ± 0.1					0.03 ± 0.003	WGO= 0.01 ± 0.002	73ADAMCHUK+
67.62						ARG= 2.1	77LITTLE+
80.91	1	4.5	0.10 ± 0.05	(170)	0.05 ± 0.006		JENDL-2
80.95 ± 0.13					0.05 ± 0.006	WGO= 0.014 ± 0.006	73ADAMCHUK+
80.91						ARG= 2.4	77LITTLE+
81.60	1	4.5	0.111 ± 0.07	(170)	0.055 ± 0.005		JENDL-2
81.65 ± 0.1					0.05 ± 0.005	WGO= 0.02 ± 0.004	73ADAMCHUK+
81.6						ARG= 2.6	77LITTLE+
111.2	0	4.5	13.1 ± 0.9	170 ± 30	6.08 ± 2.82		JENDL-2
111.8	0	4.5	^a 14.0	112.0		GT = 126.0	JENDL-1
112.4			13.0 ± 3.0				58SLAUGHTER+
111.64	0			(112.0)		GND= 1.4 ± 0.2	70WATANABE+A
111.1 ± 0.2				170.0 ± 30.0		WGO= 1.33 ± 0.09	73ADAMCHUK+
111.2					3.26 ± 0.28	ARG= 122.6	77LITTLE+
114.1 ± 0.2						WGO= 0.005 ± 0.001	73ADAMCHUK+
123.7	0	4.5	4.56 ± 0.45	140 ± 30	2.21 ± 0.79		JENDL-2
124.6	0	4.5	^a 4.5	112.0		GT = 116.5	JENDL-1
125.0			3.0 ± 2.0				58SLAUGHTER+
124.4	0			(112.0)		GND= 0.6 ± 0.1	70WATANABE+A
123.9 ± 0.3				140.0 ± 50.0		WGO= 0.45 ± 0.04	73ADAMCHUK+
123.7					1.42 ± 0.12	ARG= 47.9	77LITTLE+
126.8 ± 0.3						WGO= 0.012 ± 0.003	73ADAMCHUK+
148.2	1	4.5	0.072	(170)	0.036 ± 0.004		JENDL-2
148.2 ± 0.3					0.04 ± 0.004	WGO= 0.0018 ± 0.0008	73ADAMCHUK+
148.0						ARG= 1.0	77LITTLE+
162.9	0	4.5	55 ± 15	120	18.9 ± 10.0		JENDL-2
164.0	0	4.5	^a 64.0	112.0		GT = 176.0	JENDL-1
165.0			67.0 ± 12.0				58SLAUGHTER+
163.8	0			(112.0)		GND= 4.7 ± 0.4	70WATANABE+A
163.2 ± 0.4				160.0 ± 40.0		WGO= 5.7 ± 0.5	73ADAMCHUK+
162.9					8.8 ± 0.75	ARG= 225.9	77LITTLE+
173.2	1	4.5	0.30 ± 0.09	(170)	0.15 ± 0.05		JENDL-2
173.1 ± 0.4						WGO= 0.023 ± 0.007	73ADAMCHUK+
173.2						ARG= < 1.0	77LITTLE+
182.2	0	4.5	61 ± 10	(170)	22 ± 13		JENDL-2

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
182.6 184.0 182.8 182.5 ± 0.4 182.2	0	4.5	66.0 R 66.0 ± 18.0	112.0 (112.0) 190.0 ± 30.0	8.46 ± 0.72	GT = 176.0 GND= 4.9 ± 0.4 WGO= 5.6 ± 0.6 ARG= 194.6	JENDL-1 58SLAUGHTER+ 70WATANABE+A 73ADAMCHUK+ 77LITTLE+
191.9 192.6 195.0 192.6 192.1 ± 0.5 191.9	0	4.5	43 ± 15 46.0 R 48.0 ± 15.0	(170) 112.0 (112.0) 180.0 ± 20.0	17.2 ± 9.0 8.16 ± 0.69	GT = 158.0 GND= 3.3 ± 0.2 WGO= 4.2 ± 0.3 ARG= 177.7	JENDL-2 JENDL-1 58SLAUGHTER+ 70WATANABE+A 73ADAMCHUK+ 77LITTLE+
196.4 196.7 ± 0.5 196.4	1	4.5	0.36 ± 0.10	(170)	0.18 ± 0.05	WGO= 0.026 ± 0.007 ARG= 1.0	JENDL-2 73ADAMCHUK+ 77LITTLE+
206.6 206.9 ± 0.5 206.6	1	4.5	0.48 ± 0.22	(170)	0.24 ± 0.02	WGO= 0.046 ± 0.015 ARG= 4.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
210.1 210.4 ± 0.6 210.1	1	4.5	0.42 ± 0.32	(170)	0.21 ± 0.02	WGO= 0.051 ± 0.015 ARG= 3.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
214.9 215.0 ± 0.6 214.9	1	4.5	0.78 ± 0.29	(170)	0.39 ± 0.03	WGO= 0.06 ± 0.02 ARG= 7.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
220.7 221.1 ± 0.6 220.7	1	4.5	0.40 ± 0.30	(170)	0.20 ± 0.02	WGO= 0.046 ± 0.02 ARG= 3.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
226.1 226.2 ± 0.7 226.1	1	4.5	0.20 ± 0.14	(170)	0.10 ± 0.01	WGO= 0.019 ± 0.009 ARG= 1.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
241.3 242.1 245.0 242.1 241.7 ± 0.7 241.3	0	4.5	44 ± 5 50.0 R 40.0 ± 25.0	200 ± 40 112.0 (112.0) 200.0 ± 40.0	18.0 ± 9.0 8.75 ± 0.74	GT = 162.0 GND= 3.2 ± 0.2 WGO= 3.09 ± 0.25 ARG= 151.6	JENDL-2 JENDL-1 58SLAUGHTER+ 70WATANABE+A 73ADAMCHUK+ 77LITTLE+
261.6 262.8 ± 0.8 261.6	1	4.5	0.18 ± 0.10	(170)	0.09 ± 0.009	WGO= 0.017 ± 0.006 ARG= 1.4	JENDL-2 73ADAMCHUK+ 77LITTLE+
273.1 273.5 ± 0.8 273.1	1	4.5	0.62 ± 0.33	(170)	0.31 ± 0.03	WGO= 0.053 ± 0.02 ARG= 4.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
279.9 280.0 280.0 280.5 ± 0.9 279.9	0	4.5	16.5 ± 0.9 17.0	170 ± 25 112.0 (112.0) 170.0 ± 25.0	7.5 ± 2.0 4.64 ± 0.39	GT = 129.0 GND= 1.0 ± 0.1 WGO= 1.01 ± 0.02 ARG= 69.3	JENDL-2 JENDL-1 70WATANABE+A 73ADAMCHUK+ 77LITTLE+
300.2 301.0 ± 0.9 300.2	0	4.5	38.0 ± 4.0	(170)	16.4 ± 6.0 10.62 ± 0.90	WGO= 2.42 ± 0.25 ARG= 147.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
307.0 310.0 308.0 ± 1.0 307.0	0	4.5	22.2 ± 1.8 R 100.0 ± 60.0	160 ± 30 160.0 ± 30.0	9.7 ± 4.5 5.22 ± 0.44	WGO= 1.37 ± 0.1 ARG= 71.0	JENDL-2 58SLAUGHTER+ 73ADAMCHUK+ 77LITTLE+
317.8 318.5 ± 1.1 317.6	1	4.5	0.66 ± 0.4	(170)	0.33 ± 0.06 0.28 ± 0.03	WGO= 0.058 ± 0.02 ARG= 3.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
324.7 326.1 ± 1.1 324.7	1	4.5	0.44 ± 0.2	(170)	0.22 ± 0.02	WGO= 0.03 ± 0.01 ARG= 2.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
333.6 333.9 ± 1.1 333.6	1	4.5	0.15 ± 0.14	(170)	0.077 ± 0.01 0.07 ± 0.007	WGO= 0.016 ± 0.005 ARG= 0.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
343.2 341.0 344.6 ± 1.2 343.2	1	4.5	1.47 ± 0.6 R 1000.0 ± 500.0	(170)	0.73 ± 0.06	WGO= 0.1 ± 0.03 ARG= 8.9	JENDL-2 58SLAUGHTER+ 73ADAMCHUK+ 77LITTLE+
350.2 351.9 ± 1.2 350.2	1	4.5	0.72 ± 0.45	(170)	0.36 ± 0.03 0.33 ± 0.03	WGO= 0.06 ± 0.02 ARG= 3.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
358.7 359.5 ± 1.3 358.7	0	4.5	15.6 ± 0.6	(170)	7.14 ± 0.56 6.58 ± 0.56	WGO= 0.63 ± 0.03 ARG= 76.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
365.2 365.0 366.0 ± 1.3 365.2	0	4.5	150 ± 30 R 550.0 ± 300.0	(170)	40 ± 20 22.2 ± 1.89	WGO= 9.4 ± 1.5 ARG= 178.7	JENDL-2 58SLAUGHTER+ 73ADAMCHUK+ 77LITTLE+
380.2 381.0 ± 1.4 380.2	0	4.5	31 ± 2.5	190 ± 50 190.0 ± 50.0	13.3 ± 4.0 9.45 ± 0.80	WGO= 1.7 ± 0.1 ARG= 103.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
386.3 388.1 ± 1.4 386.3	1	4.5	0.74 ± 0.4	(170)	0.37 ± 0.03 0.37 ± 0.03	WGO= 0.05 ± 0.02 ARG= 4.0	JENDL-2 73ADAMCHUK+ 77LITTLE+
398.8	1	4.5	0.32 ± 0.5	(170)	0.16 ± 0.02		JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
399.9 ± 1.5 398.8					0.14 ± 0.014	WGO= 0.04 ± 0.015 ARG= 1.4	73ADAMCHUK+ 77LITTLE+
417.1 418.6 ± 1.6 417.1	0	4.5	71 ± 7	200 ±40 200.0 ±40.0	26.2 ±12	WGO= 3.8 ± 0.3 ARG= 141.5	JENDL-2 73ADAMCHUK+ 77LITTLE+
427.1 428.0 428.4 ± 1.8 427.1	0	4.5	92 ± 9 300.0 ±100.0	240 ±50 240.0 ±50.0	33.3 ±18	WGO= 4.9 ± 0.4 ARG= 150.3	JENDL-2 58SLAUGHTER+ 73ADAMCHUK+ 77LITTLE+
439.2 440.4 ± 1.7 439.2	1	4.5	0.50 ± 0.13	(170)	0.25 ± 0.2 0.23 ± 0.02	WGO= 0.03 ± 0.001 ARG= 2.2	JENDL-2 73ADAMCHUK+ 77LITTLE+
448.0 449.2 ± 1.8 448.0	1	4.5	2.1 ± 0.7	(170)	1.04 ± 0.08 0.96 ± 0.08	WGO= 0.13 ± 0.03 ARG= 9.0	JENDL-2 73ADAMCHUK+ 77LITTLE+
460.4 462.0 ± 1.9 460.4	0	4.5	49 ± 3	(170)	19 ± 8 10.87 ± 0.92	WGO= 2.42 ± 0.14 ARG= 98.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
465.8 465.8	1	4.5	1.2 ± 0.12	(170)	0.6 ± 0.06 0.6 ± 0.06	ARG= 5.4	JENDL-2 77LITTLE+
478.9 481.3 ± 2.0 478.9	0	4.5	24.8 ± 2.0	(170)	10.8 ± 6.0 5.02 ± 0.49	WGO= 1.22 ± 0.09 ARG= 43.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
486.7 489.4 ± 2.0 486.7	1	4.5	5.05 ± 0.7	(170)	2.45 ± 0.7 2.45 ± 0.21	WGO= 0.26 ± 0.03 ARG= 21.0	JENDL-2 73ADAMCHUK+ 77LITTLE+
508.4 510.4 ± 2.2 508.4	1	4.5	0.60 ± 0.23	(170)	0.3 ± 0.03 0.3 ± 0.03	WGO= 0.03 ± 0.01 ARG= 2.5	JENDL-2 73ADAMCHUK+ 77LITTLE+
517.0 521.5 ± 2.2 517.0	0	4.5	24.6 ± 3.0	(170)	10.7 ± 4.5 6.27 ± 0.54	WGO= 1.21 ± 0.13 ARG= 50.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
521.0 523.7 ± 2.3 521.0	0	4.5	26.5 ± 3.0	(170)	11.5 ± 2.0 9.67 ± 0.82	WGO= 1.29 ± 0.13 ARG= 77.6	JENDL-2 73ADAMCHUK+ 77LITTLE+
527.4 530.6 ± 2.3 527.4	1	4.5	1.88 ± 0.70	(170)	0.93 ± 0.08 0.93 ± 0.08	WGO= 0.06 ± 0.03 ARG= 7.3	JENDL-2 73ADAMCHUK+ 77LITTLE+
537.4 539.9 ± 2.4 537.4	0	4.5	31 ± 4	(170)	13.1 ± 4.0 9.54 ± 0.81	WGO= 1.5 ± 0.17 ARG= 74.2	JENDL-2 73ADAMCHUK+ 77LITTLE+
563.4 566.9 ± 2.5 563.4	1	4.5	9.28 ± 3.8	(170)	4.4 ± 0.4 4.01 ± 0.35	WGO= 0.55 ± 0.13 ARG= 29.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
578.1 578.1	1	4.5	2.8 ± 0.3	(170)	1.4 ± 0.13 1.4 ± 0.13	ARG= 10.1	JENDL-2 77LITTLE+
594.4 594.4	1	4.5	8.5 ± 0.8	(170)	4.0 ± 0.4 4.04 ± 0.35	ARG= 28.4	JENDL-2 77LITTLE+
598.3 601.4 ± 2.8 598.3	0	4.5	50 ± 4	(170)	19.3 ± 5.0 14.82 ± 1.28	WGO= 2.2 ± 0.16 ARG= 103.6	JENDL-2 73ADAMCHUK+ 77LITTLE+
607.3 609.8 ± 2.8 607.3	0	4.5	36 ± 6	(170)	15 ± 4 11.14 ± 0.95	WGO= 1.7 ± 0.24 ARG= 76.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
617.5 617.5	1	4.5	1.51 ± 0.14	(170)	0.75 ± 0.07 0.75 ± 0.07	ARG= 5.1	JENDL-2 77LITTLE+
623.7 627.2 ± 3.0 623.7	1	4.5	4.5 ± 5.5	(170)	2.2 ± 0.2 2.05 ± 0.18	WGO= 0.4 ± 0.08 ARG= 13.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
633.2 636.2 ± 3.0 633.2	1	4.5	2.4 ± 1.0	(170)	1.2 ± 0.1 1.19 ± 0.11	WGO= 0.11 ± 0.04 ARG= 7.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
655.3 657.9 ± 3.2 655.3	0	4.5	47 ± 8	(170)	18 ± 6 12.73 ± 1.08	WGO= 2.13 ± 0.31 ARG= 81.2	JENDL-2 73ADAMCHUK+ 77LITTLE+
672.5 677.4 ± 3.3 672.5	0	4.5	30 ± 6	(170)	12.8 ± 3 9.63 ± 0.83	WGO= 1.38 ± 0.23 ARG= 59.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
686.8 690.9 ± 3.4 686.8	1	4.5	5.7 ± 3.8	(170)	2.8 ± 0.2 2.61 ± 0.23	WGO= 0.36 ± 0.07 ARG= 15.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
702.9 708.3 ± 3.6 702.9	7	4.5	0.7 ± 0.8	(170)	0.35 ± 0.03 0.32 ± 0.03	WGO= 0.06 ± 0.02 ARG= 1.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
724.7 730.1 ± 3.7 724.7	1	4.5	9.4 ± 4.1	(170)	4.45 ± 0.39 4.45 ± 0.39	WGO= 0.44 ± 0.15 ARG= 25.6	JENDL-2 73ADAMCHUK+ 77LITTLE+
746.2 749.1 ± 3.8	0	4.5	100 ±30	180 ±30 180.0 ±30.0	32 ±10	WGO= 4.75 ± 1.1	JENDL-2 73ADAMCHUK+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
746.2					22.26 ± 1.89	ARG= 124.3	77LITTLE+
754.5 756.9 ± 3.9 754.5	0	4.5	58 ± 8	(170)	22 ± 8 14.12 ± 1.2	WGO= 2.4 ± 0.29 ARG= 78.0	JENDL-2 73ADAMCHUK+ 77LITTLE+
767.2 772.8 ± 4.0 767.2	1	4.5	9.6 ± 3.0	(170)	4.6 ± 0.4 4.56 ± 0.40	WGO= 0.29 ± 0.11 ARG= 24.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
775.9 775.9	1	4.5	3.2 ± 0.3	(170)	1.6 ± 0.2 1.55 ± 0.14	ARG= 8.3	JENDL-2 77LITTLE+
790.6 790.6	1	4.5	1.2 ± 0.1	(170)	0.6 ± 0.1 0.6 ± 0.06	ARG= 3.1	JENDL-2 77LITTLE+
799.7 799.7	1	4.5	3.9 ± 0.4	(170)	1.93 ± 0.17 1.93 ± 0.17	ARG= 10.1	JENDL-2 77LITTLE+
805.8 810.5 ± 4.3 805.8	0	4.5	34 ± 6	(170)	14 ± 3 11.47 ± 0.99	WGO= 1.48 ± 0.28 ARG= 59.3	JENDL-2 73ADAMCHUK+ 77LITTLE+
816.7 819.3 ± 4.4 816.7	0	4.5	28 ± 6	(170)	12 ± 3 9.74 ± 0.84	WGO= 1.19 ± 0.21 ARG= 49.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
829.4 829.4	1	4.5	4.4 ± 0.4	(170)	2.2 ± 0.2 2.15 ± 0.19	ARG= 10.8	JENDL-2 77LITTLE+
839.1 846.5 ± 4.6 839.1	0	4.5	100 ± 40	(170)	32 ± 9 22.9 ± 1.95	WGO= 4.81 ± 1.37 ARG= 113.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
846	1	4.5	1.6	(170)		GN1= 44.8 COM= ARTF.LVL	JENDL-2
847.4 851.1 ± 4.8 847.4	0	4.5	100 ± 40	(170)	32 ± 15 16.97 ± 1.44	WGO= 4.8 ± 1.37 ARG= 83.5	JENDL-2 73ADAMCHUK+ 77LITTLE+
871	1	4.5	0.09	(170)		GN1= 2.4 COM= ARTF.LVL	JENDL-2
876.3 879.9 ± 4.9 876.3	0	4.5	22 ± 8	(170)	9.7 ± 0.8 9.3 ± 0.8	WGO= 1.0 ± 0.27 ARG= 44.2	JENDL-2 73ADAMCHUK+ 77LITTLE+
884.1 899.9 ± 5.1 884.1	0	4.5	190 ± 30	(170)	45 ± 20 24.25 ± 2.06	WGO= 7.0 ± 1.0 ARG= 113.0	JENDL-2 73ADAMCHUK+ 77LITTLE+
916.1 916.1	1	4.5	0.4 ± 0.04	(170)	0.2 ± 0.02 0.2 ± 0.02	ARG= 0.9	JENDL-2 77LITTLE+
921	1	4.5	1.2	(170)		GN1= 29.8 COM= ARTF.LVL	JENDL-2
927.4 936.6 ± 5.4 927.4	1	4.5	3.5 ± 1.2	(170)	1.7 ± 1.5 1.69 ± 0.15	WGO= 0.12 ± 0.04 ARG= 7.6	JENDL-2 73ADAMCHUK+ 77LITTLE+
944.7 944.7	1	4.5	0.82 ± 0.06	(170)	0.31 ± 0.03 0.31 ± 0.03	ARG= 1.4	JENDL-2 77LITTLE+
973.7 981.3 ± 5.8 973.7	1	4.5	8.8 ± 6.0	(170)	4.2 ± 0.4 4.18 ± 0.37	WGO= 0.02 ± 0.19 ARG= 17.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
983.0 983.0	1	4.5	2.2 ± 0.2	(170)	1.1 ± 0.1 1.08 ± 0.1	ARG= 4.6	JENDL-2 77LITTLE+
996.6 1004.0 ± 6.0 996.6	0	4.5	34 ± 10	(170)	14.2 ± 1.2 13.88 ± 1.18	WGO= 1.39 ± 0.31 ARG= 58.0	JENDL-2 73ADAMCHUK+ 77LITTLE+
1010.5 1010.5	1	4.5	2.5 ± 0.2	(170)	1.3 ± 0.1 1.29 ± 0.12	ARG= 5.3	JENDL-2 77LITTLE+
1022.5 1029.0 ± 6.0 1022.5	1	4.5	18.4 ± 10	(170)	8.3 ± 0.7 8.3 ± 0.71	WGO= 0.81 ± 0.31 ARG= 33.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
1037.0 1037.0	1	4.5	1.4 ± 0.1	(170)	0.7 ± 0.1 0.7 ± 0.07	ARG= 2.8	JENDL-2 77LITTLE+
1048.3 1054.0 ± 6.0 1048.3	0	4.5	44 ± 10	(170)	17.5 ± 1.5 17.0 ± 1.46	WGO= 1.66 ± 0.31 ARG= 67.6	JENDL-2 73ADAMCHUK+ 77LITTLE+
1075.1 1081.0 ± 7.0 1075.1	0	4.5	123 ± 79	(170)	35.6 ± 3.0 35.62 ± 3.03	WGO= 6.1 ± 2.4 ARG= 138.1	JENDL-2 73ADAMCHUK+ 77LITTLE+
1078	1	4.5	0.47	(170)		GN1= 9.04 COM= ARTF.LVL	JENDL-2
1085.9 1094.0 ± 7.0 1085.9	0	4.5	123 ± 79	(170)	35.7 ± 5.0 30.97 ± 2.63	WGO= 6.1 ± 2.4 ARG= 118.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
1107.9 1115.0 ± 7.0 1107.9	1	4.5	6.0 ± 6.7	(170)	2.9 ± 0.3 2.91 ± 0.26	WGO= 0.3 ± 0.2 ARG= 10.9	JENDL-2 73ADAMCHUK+ 77LITTLE+
1114.1	1	4.5	3.4 ± 0.3	(170)	1.67 ± 0.15		JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HWG (MILLI-EV)	MISCELLANEOUS	REFERENCE
1114.1					1.67 ± 0.15	ARG= 6.3	77LITTLE+
1123	1	4.5	2.4	(170)		GN1= 43.0 COM= ARTF.LVL	JENDL-2
1138.3 1144.0 ± 7.0 1138.3	0	4.5	76 ±51	(170)	26.2 ± 2.3 26.18 ± 2.25	W00= 3.6 ± 1.5 ARG= 95.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
1182.2 1189.0 ± 7.0 1182.2	0	4.5	72 ±10	(170)	25.2 ± 2.2 25.19 ± 2.17	ARG= 88.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
1197.4 1197.4	1	4.5	18 ± 2	(170)	8.3 ± 0.7 8.26 ± 0.72	ARG= 28.8	JENDL-2 77LITTLE+
1204.4 1212.0 ± 8.0 1204.4	0	4.5	78 ±12	(170)	26.8 ± 2.3 26.8 ± 2.31	ARG= 92.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
1210	1	4.5	1.2	(170)		GN1= 19.8 COM= ARTF.LVL	JENDL-2
1215.7 1228.0 ± 8.0 1215.7	0	4.5	33 ± 4	(170)	13.7 ± 1.2 13.67 ± 1.18	ARG= 46.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
1221	1	4.5	0.50	(170)		GN1= 7.95 COM= ARTF.LVL	JENDL-2
1228.6 1228.6	1	4.5	7.1 ± 0.7	(170)	3.4 ± 0.3 3.42 ± 0.31	ARG= 11.6	JENDL-2 77LITTLE+
1237.4 1248.0 ± 8.0 1237.4	1	4.5	2.2 ± 0.2	(170)	1.1 ± 0.9 1.09 ± 0.10	ARG= 3.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
1249.2 1249.2	1	4.5	6.3 ± 0.6	(170)	3.0 ± 0.3 3.03 ± 0.27	ARG= 10.1	JENDL-2 77LITTLE+
1258.2 1258.2	1	4.5	11 ± 1	(170)	5.0 ± 0.5 5.04 ± 0.44	ARG= 16.7	JENDL-2 77LITTLE+
1268.7 1268.7	0	4.5	48 ± 6	(170)	18.7 ± 1.6 18.72 ± 1.61	ARG= 61.5	JENDL-2 77LITTLE+
1278	1	4.5	0.18	(170)		GN1= 2.71 COM= ARTF.LVL	JENDL-2
1284.1 1296.0 ± 9.0 1284.1	0	4.5	72 ±10	(170)	25.3 ± 2.2 25.27 ± 2.17	ARG= 82.0	JENDL-2 73ADAMCHUK+ 77LITTLE+
1299.7 1314.0 ± 9.0 1299.7	0	4.5	35 ± 4	(170)	14.6 ± 1.3 14.56 ± 1.25	ARG= 46.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
1310.8 1310.8	0	4.5	41 ± 5	(170)	16.6 ± 1.4 16.56 ± 1.42	ARG= 52.6	JENDL-2 77LITTLE+
1319	1	4.5	0.28	(170)		GN1= 3.97 COM= ARTF.LVL	JENDL-2
1323.7 1323.7	0	4.5	38 ± 4	(170)	15.6 ± 1.3 15.61 ± 1.34	ARG= 49.2	JENDL-2 77LITTLE+
1335.1 1341.0 ± 9.0 1335.1	0	4.5	46 ± 6	(170)	18.2 ± 1.6 18.16 ± 1.55	ARG= 56.7	JENDL-2 73ADAMCHUK+ 77LITTLE+
1348.4 1348.4	1	4.5	5.6 ± 0.5	(170)	2.7 ± 0.3 2.7 ± 0.25	ARG= 8.3	JENDL-2 77LITTLE+
1371	1	4.5	0.53	(170)		GN1= 7.07 COM= ARTF.LVL	JENDL-2
1372.0 1379.0 ± 9.0 1372.0	1	4.5	19 ± 2	(170)	8.5 ± 0.7 8.51 ± 0.74	ARG= 25.8	JENDL-2 73ADAMCHUK+ 77LITTLE+
1382.3 1382.3	1	4.5	3.5 ± 0.3	(170)	1.7 ± 0.2 1.72 ± 0.16	ARG= 5.2	JENDL-2 77LITTLE+
1387	1	4.5	2.8	(170)		GN1= 36.0 COM= ARTF.LVL	JENDL-2
1397	1	4.5	0.36	(170)		GN1= 4.63 COM= ARTF.LVL	JENDL-2
1405.1 1418.0 ±10.0 1405.1	0	4.5	105 ±19	(170)	32.5 ± 2.8 32.48 ± 2.79	ARG= 96.3	JENDL-2 73ADAMCHUK+ 77LITTLE+
1428.4 1428.4	1	4.5	35 ± 4	(170)	14.6 ± 1.3 14.53 ± 1.25	ARG= 42.7	JENDL-2 77LITTLE+
1444.9 1459.0 ±10.0 1444.9	0	4.5	219 ±66	(170)	47.9 ± 4.1 47.87 ± 4.07	ARG= 138.0	JENDL-2 73ADAMCHUK+ 77LITTLE+
1455	1	4.5	3.4	(170)		GN1= 41.1 COM= ARTF.LVL	JENDL-2
1478.9 1491.0 ±11.0 1478.9	0	4.5	281 ±105	(170)	53.0 ± 4.5 53.02 ± 4.51	ARG= 149.4	JENDL-2 73ADAMCHUK+ 77LITTLE+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1486.2 1486.2	1	4.5	15 ± 2	(170)	7.1 ± 0.6 7.07 ± 0.62	ARG= 19.7	JENDL-2 77LITTLE+
1512	1	4.5	3.4	(170)		GN1= 39.4 COM= ARTF.LVL	JENDL-2
1531	1	4.5	4.4	(170)		GN1= 49.8 COM= ARTF.LVL	JENDL-2
1532 1532.0	0	4.5	16	(170)		GN0= 0.41 COM= GN-ARTF.	JENDL-2 77LITTLE+
1550 1550.0	1	4.5	7.2	(170)		GN1= 79.4 COM= GN-ARTF.	JENDL-2 77LITTLE+
1570 1570.0 ± 11.0 1567.0	0	4.5	87	(170)		GN0= 2.19 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
1599 1605.0 ± 12.0 1599.0	0	4.5	95	(170)		GN0= 2.38 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
1620 1620.0	1	4.5	12	(170)		GN1= 127 COM= GN-ARTF.	JENDL-2 77LITTLE+
1627 1627.0	0	4.5	5.2	(170)		GN0= 0.13 COM= GN-ARTF.	JENDL-2 77LITTLE+
1654 1668.0 ± 13.0 1654.0	0	4.5	20	(170)		GN0= 0.50 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
1655	1	4.5	2.9	(170)		GN1= 29.3 COM= ARTF.LVL	JENDL-2
1663 1663.0	1	4.5	9.3	(170)		GN1= 92.8 COM= GN-ARTF.	JENDL-2 77LITTLE+
1677 1677.0	0	4.5	4.9	(170)		GN0= 0.12 COM= GN-ARTF.	JENDL-2 77LITTLE+
1686	1	4.5	3.0	(170)		GN1= 29.4 COM= ARTF.LVL	JENDL-2
1698	1	4.5	0.16	(170)		GN1= 1.59 COM= ARTF.LVL	JENDL-2
1707 1721.0 ± 13.0 1707.0	0	4.5	109	(170)		GN0= 2.64 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
1719 1719.0	1	4.5	14	(170)		GN1= 129 COM= GN-ARTF.	JENDL-2 77LITTLE+
1730	1	4.5	2.6	(170)		GN1= 24.8 COM= ARTF.LVL	JENDL-2
1753 1753.0	0	4.5	26	(170)		GN0= 0.61 COM= GN-ARTF.	JENDL-2 77LITTLE+
1758 1776.0 ± 14.0 1768.0	0	4.5	76	(170)		GN0= 1.80 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
1791 1805.0 ± 14.0 1791.0	0	4.5	34	(170)		GN0= 0.80 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
1803	1	4.5	0.32	(170)		GN1= 2.80 COM= ARTF.LVL	JENDL-2
1807	1	4.5	9.3	(170)		GN1= 81.7 COM= ARTF.LVL	JENDL-2
1814 1814.0	1	4.5	22	(170)		GN1= 190 COM= GN-ARTF.	JENDL-2 77LITTLE+
1824 1834.0 ± 15.0 1824.0	0	4.5	390	(170)		GN0= 9.13 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
1862	1	4.5	9.0	(170)		GN1= 75.7 COM= ARTF.LVL	JENDL-2
1864 1864.0	1	4.5	44	(170)		GN1= 967 COM= GN-ARTF.	JENDL-2 77LITTLE+
1872	0	4.5	186	(170)		GN0= 4.31 COM= GN-ARTF.	JENDL-2

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1879.0 ±15.0 1872.0							73ADAMCHUK+ 77LITTLE+
1886 1886.0	1	4.5	15	(170)		GN1= 124 COM= GN-ARTF.	JENDL-2 77LITTLE+
1908 1908.0	0	4.5	17	(170)		GN0= 0.40 COM= GN-ARTF.	JENDL-2 77LITTLE+
1925 1942.0 ±16.0 1925.0	0	4.5	118	(170)		GN0= 2.70 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
1929	1	4.5	3.3	(170)		GN1= 28.6 COM= ARTF.LVL	JENDL-2
1943 1943.0	1	4.5	20	(170)		GN1= 155 COM= GN-ARTF.	JENDL-2 77LITTLE+
1947	1	4.5	1.1	(170)		GN1= 8.39 COM= ARTF.LVL	JENDL-2
1954	1	4.5	0.95	(170)		GN1= 7.45 COM= ARTF.LVL	JENDL-2
1963 1975.0 ±16.0 1963.0	0	4.5	96	(170)		GN0= 2.17 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
1980	1	4.5	14	(170)		GN1= 105 COM= ARTF.LVL	JENDL-2
1993	1	4.5	0.72	(170)		GN1= 5.51 COM= ARTF.LVL	JENDL-2
1999 1999.0	0	4.5	11	(170)		GN0= 0.24 COM= GN-ARTF.	JENDL-2 77LITTLE+
2011 2025.0 ±17.0 2011.0	0	4.5	220	(170)		GN0= 4.90 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
2018	1	4.5	19	(170)		GN1= 139 COM= ARTF.LVL	JENDL-2
2029 2029.0	0	4.5	41	(170)		GN0= 0.92 COM= GN-ARTF.	JENDL-2 77LITTLE+
2038 2038.0	1	4.5	41	(170)		GN1= 302 COM= GN-ARTF.	JENDL-2 77LITTLE+
2046	1	4.5	2.0	(170)		GN1= 14.8 COM= ARTF.LVL	JENDL-2
2063 2063.0	0	4.5	6.4	(170)		GN0= 0.14 COM= GN-ARTF.	JENDL-2 77LITTLE+
2067	1	4.5	2.6	(170)		GN1= 18.7 COM= ARTF.LVL	JENDL-2
2077	1	4.5	0.51	(170)		GN1= 3.64 COM= ARTF.LVL	JENDL-2
2086 2086.0	1	4.5	37	(170)		GN1= 260 COM= GN-ARTF.	JENDL-2 77LITTLE+
2091	1	4.5	1.1	(170)		GN1= 8.11 COM= ARTF.LVL	JENDL-2
2092 2104.0 ±18.0 2092.0	0	4.5	67	(170)		GN0= 1.47 COM= GN-ARTF.	JENDL-2 73ADAMCHUK+ 77LITTLE+
2095	1	4.5	23	(170)		GN1= 164 COM= ARTF.LVL	JENDL-2
2105 2105.0	0	4.5	105	(170)		GN0= 2.28 COM= GN-ARTF.	JENDL-2 77LITTLE+
2106	1	4.5	4.2	(170)		GN1= 29.1 COM= ARTF.LVL	JENDL-2
2137	1	4.5	3.9	(170)		GN1= 28.4 COM= ARTF.LVL	JENDL-2
2158 2158.0	0	4.5	28	(170)		GN0= 0.60 COM= GN-ARTF.	JENDL-2 77LITTLE+
2165	1	4.5	1.3	(170)		GN1= 8.40 COM= ARTF.LVL	JENDL-2
2169	1	4.5	8.9	(170)		GN1= 59.3 COM= ARTF.LVL	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
2178 2178.0	0	4.5	112	(170)		GN0= 2.41 COM= GN-ARTF.	JENDL-2 77LITTLE+
2188	1	4.5	10	(170)		GN1= 66.4 COM= ARTF.LVL	JENDL-2
2205	1	4.5	9.9	(170)		GN1= 25.5 COM= ARTF.LVL	JENDL-2
2213 2213.0	0	4.5	15	(170)		GN0= 0.32 COM= GN-ARTF.	JENDL-2 77LITTLE+
2230 2230.0	0	4.5	8.0	(170)		GN0= 0.17 COM= GN-ARTF.	JENDL-2 77LITTLE+
2238 2238.0	1	4.5	14	(170)		GN1= 92.1 COM= GN-ARTF.	JENDL-2 77LITTLE+
2249	1	4.5	9.0	(170)		GN1= 57.2 COM= ARTF.LVL	JENDL-2
2252	1	4.5	6.6	(170)		GN1= 41.9 COM= ARTF.LVL	JENDL-2
2263 2263.0	0	4.5	42	(170)		GN0= 0.88 COM= GN-ARTF.	JENDL-2 77LITTLE+
2270 2270.0	1	4.5	41	(170)		GN1= 257 COM= GN-ARTF.	JENDL-2 77LITTLE+
2292 2292.0	0	4.5	36	(170)		GN0= 0.76 COM= GN-ARTF.	JENDL-2 77LITTLE+
2325	1	4.5	1.0	(170)		GN1= 6.30 COM= ARTF.LVL	JENDL-2
2330	1	4.5	9.1	(170)		GN1= 54.8 COM= ARTF.LVL	JENDL-2
2348 2348.0	0	4.5	38	(170)		GN0= 0.78 COM= GN-ARTF.	JENDL-2 77LITTLE+
2352	1	4.5	21	(170)		GN1= 128 COM= ARTF.LVL	JENDL-2
2372 2372.0	0	4.5	17	(170)		GN0= 0.95 COM= GN-ARTF.	JENDL-2 77LITTLE+
2387 2387.0	0	4.5	41	(170)		GN0= 0.84 COM= GN-ARTF.	JENDL-2 77LITTLE+
2388	1	4.5	0.50	(170)		GN1= 2.90 COM= ARTF.LVL	JENDL-2
2402	1	4.5	20	(170)		GN1= 115 COM= ARTF.LVL	JENDL-2
2412	1	4.5	12	(170)		GN1= 67.8 COM= ARTF.LVL	JENDL-2
2419 2419.0	0	4.5	17	(170)		GN0= 0.35 COM= GN-ARTF.	JENDL-2 77LITTLE+
2431 2431.0	0	4.5	22	(170)		GN0= 0.45 COM= GN-ARTF.	JENDL-2 77LITTLE+
2433	1	4.5	7.6	(170)		GN1= 42.8 COM= ARTF.LVL	JENDL-2
2442	1	4.5	81	(170)		GN1= 454 COM= ARTF.LVL	JENDL-2
2443	1	4.5	25	(170)		GN1= 139 COM= ARTF.LVL	JENDL-2
2480 2480.0	0	4.5	5.6	(170)		GN0= 0.11 COM= GN-ARTF.	JENDL-2 77LITTLE+
2498	1	4.5	3.8	(170)		GN1= 20.5 COM= ARTF.LVL	JENDL-2
2500	1	4.5	8.6	(170)		GN1= 46.6 COM= ARTF.LVL	JENDL-2
2514 2514.0	0	4.5	135	(170)		GN0= 2.89 COM= GN-ARTF.	JENDL-2 77LITTLE+
2522 2522.0	0	4.5	31	(170)		GN0= 0.81 COM= GN-ARTF.	JENDL-2 77LITTLE+
2542	1	4.5	46	(170)		GN1= 243 COM= ARTF.LVL	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
2552 2552.0	0	4.5	11	(170)		GND= 0.21 COM= GN-ARTF.	JENDL-2 77LITTLE+
2561	1	4.5	0.98	(170)		GN1= 5.13 COM= ARTF.LVL	JENDL-2
2565	1	4.5	5.7	(170)		GN1= 29.7 COM= ARTF.LVL	JENDL-2
2583 2583.0	0	4.5	104	(170)		GND= 2.05 COM= GN-ARTF.	JENDL-2 77LITTLE+
2586	1	4.5	0.08	(170)		GN1= 0.44 COM= ARTF.LVL	JENDL-2
2605 2605.0	0	4.5	107	(170)		GND= 2.10 COM= GN-ARTF.	JENDL-2 77LITTLE+
2613	1	4.5	1.1	(170)		GN1= 5.53 COM= ARTF.LVL	JENDL-2
2614 2614.0	0	4.5	85	(170)		GND= 1.66 COM= GN-ARTF.	JENDL-2 77LITTLE+
2626	1	4.5	19	(170)		GN1= 95.7 COM= ARTF.LVL	JENDL-2
2628 2628.0	0	4.5	158	(170)		GND= 3.09 COM= GN-ARTF.	JENDL-2 77LITTLE+
2644	1	4.5	1.15	(170)		GN1= 5.72 COM= ARTF.LVL	JENDL-2
2660 2660	1	4.5	12.7 ± 0.7	(170)	5.9 ± 0.3 5.9 ± 0.3		JENDL-2 82MACKLIN
2676 2676	1	4.5	32.7 ± 1.6	(170)	13.7 ± 0.4 13.7 ± 0.4		JENDL-2 82MACKLIN
2688 2702.0 2688	0	4.5	222 ± 51	(170)	48.1 ± 5.0 48.1 ± 0.5		JENDL-2 77LITTLE+ 82MACKLIN
2695 2695	1	4.5	19.4 ± 1.3	(170)	8.7 ± 0.5 8.7 ± 0.5		JENDL-2 82MACKLIN
2703 2703	1	4.5	8.2 ± 0.9	(170)	3.9 ± 0.4 3.9 ± 0.4		JENDL-2 82MACKLIN
2717 2717	1	4.5	20.1 ± 1.3	(170)	9.0 ± 0.5 9.0 ± 0.5		JENDL-2 82MACKLIN
2721 2721	1	4.5	5.8 ± 1.1	(170)	2.8 ± 0.5 2.8 ± 0.5		JENDL-2 82MACKLIN
2734 2740.0 2734	0	4.5	191 ± 39	(170)	45 ± 9 45.0 ± 0.9		JENDL-2 77LITTLE+ 82MACKLIN
2744 2744	1	4.5	7.3 ± 0.8	(170)	3.5 ± 0.4 3.5 ± 0.4		JENDL-2 82MACKLIN
2761 2761	1	4.5	29.9 ± 1.7	(170)	12.7 ± 0.5 12.7 ± 0.5		JENDL-2 82MACKLIN
2769 2774.0 2769	0	4.5	231 ± 56	(170)	49.0 ± 0.6 49.0 ± 0.6		JENDL-2 77LITTLE+ 82MACKLIN
2784 2784	1	4.5	8.4 ± 0.7	(170)	4.0 ± 0.3 4.0 ± 0.3		JENDL-2 82MACKLIN
2795 2795	1	4.5	36 ± 2	(170)	14.9 ± 0.5 14.9 ± 0.5		JENDL-2 82MACKLIN
2801 2801	1	4.5	7.5 ± 0.9	(170)	3.6 ± 0.4 3.6 ± 0.4		JENDL-2 82MACKLIN
2814 2814	1	4.5	15.5 ± 1.5	(170)	7.1 ± 0.6 7.1 ± 0.6		JENDL-2 82MACKLIN
2817 2817	1	4.5	6.7 ± 1.5	(170)	3.2 ± 0.7 3.2 ± 0.7		JENDL-2 82MACKLIN
2831 2831	0	4.5	112 ± 13	(170)	33.8 ± 0.5 33.8 ± 0.5		JENDL-2 82MACKLIN
2841 2844.0 2841	0	4.5	236 ± 58	(170)	49.4 ± 0.6 49.4 ± 0.6		JENDL-2 77LITTLE+ 82MACKLIN
2853 2853	1	4.5	44.1 ± 2.4	(170)	17.5 ± 0.4 17.5 ± 0.4		JENDL-2 82MACKLIN
2878 2878	1	4.5	13.6 ± 1.0	(170)	6.3 ± 0.4 6.3 ± 0.4		JENDL-2 82MACKLIN
2882 2882	1	4.5	7.1 ± 0.9	(170)	3.4 ± 0.4 3.4 ± 0.4		JENDL-2 82MACKLIN
2895	0	4.5	151 ± 24	(170)	40.0 ± 0.6		JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
2902.0 2895					40.0 ± 0.6		77LITTLE+ 82MACKLIN
2902 2902	0	4.5	89 ± 9	(170)	29.3 ± 0.5 29.3 ± 0.5		JENDL-2 82MACKLIN
2920 2920	0	4.5	58 ± 4	(170)	21.6 ± 0.5 21.6 ± 0.5		JENDL-2 82MACKLIN
2936 2936	1	4.5	19 ± 1	(170)	8.6 ± 0.4 8.6 ± 0.4		JENDL-2 82MACKLIN
2945 2955.0 2945	0	4.5	107 ± 12	(170)	32.9 ± 0.5 32.9 ± 0.5		JENDL-2 77LITTLE+ 82MACKLIN
2978 2988.0 2979	0	4.5	91 ± 9	(170)	29.7 ± 0.5 29.7 ± 0.5		JENDL-2 77LITTLE+ 82MACKLIN
2994 2994	1	4.5	14 ± 1	(170)	6.4 ± 0.4 6.4 ± 0.4		JENDL-2 82MACKLIN
3006 3006	1	4.5	26 ± 3	(170)	11.1 ± 0.9 11.1 ± 0.9		JENDL-2 82MACKLIN
3009 3009	1	4.5	13 ± 2	(170)	6.0 ± 0.8 6.0 ± 0.8		JENDL-2 82MACKLIN
3023 3023	1	4.5	21 ± 1	(170)	9.5 ± 0.4 9.5 ± 0.4		JENDL-2 82MACKLIN
3039 3043.0 3039	1	4.5	44 ± 3	(170)	17.6 ± 0.6 17.6 ± 0.5		JENDL-2 77LITTLE+ 82MACKLIN
3039 3039	1	4.5	9.7 ± 1.5	(170)	4.6 ± 0.6 4.6 ± 0.6		JENDL-2 82MACKLIN
3044 3055.0 3044	0	4.5	56 ± 4	(170)	21 ± 0.6 21.0 ± 0.6		JENDL-2 77LITTLE+ 82MACKLIN
3050 3050	1	4.5	10 ± 1	(170)	4.7 ± 0.6 4.7 ± 0.6		JENDL-2 82MACKLIN
3064 3064	1	4.5	9.7 ± 1.4	(170)	4.6 ± 0.6 4.6 ± 0.6		JENDL-2 82MACKLIN
3069 3077.0 3069	0	4.5	106 ± 12	(170)	32.7 ± 0.6 32.7 ± 0.6		JENDL-2 77LITTLE+ 82MACKLIN
3083 3108.0 3093	0	4.5	132 ± 19	(170)	37.2 ± 0.6 37.2 ± 0.6		JENDL-2 77LITTLE+ 82MACKLIN
3101 3101	1	4.5	32 ± 2	(170)	13.5 ± 0.5 13.6 ± 0.5		JENDL-2 82MACKLIN
3120 3120	1	4.5	9.5 ± 1.1	(170)	4.5 ± 0.5 4.6 ± 0.5		JENDL-2 82MACKLIN
3129 3129	0	4.5	58 ± 6	(170)	24.4 ± 0.7 24.4 ± 0.7		JENDL-2 82MACKLIN
3136 3142.0 3136	0	4.5	153 ± 25	(170)	40.3 ± 0.6 40.3 ± 0.6		JENDL-2 77LITTLE+ 82MACKLIN
3143 3143	1	4.5	39 ± 3	(170)	15.7 ± 0.7 15.7 ± 0.7		JENDL-2 82MACKLIN
3150 3150	1	4.5	9.1 ± 0.9	(170)	4.3 ± 0.4 4.3 ± 0.4		JENDL-2 82MACKLIN
3160 3165	1	4.5	52 ± 3	(170)	19.8 ± 0.5 19.8 ± 0.5		JENDL-2 82MACKLIN
3180 3180	1	4.5	9.5 ± 1.1	(170)	4.5 ± 0.5 4.5 ± 0.5		JENDL-2 82MACKLIN
3191 3191	0	4.5	665 ± 460	(170)	67.7 ± 0.7 67.7 ± 0.7		JENDL-2 82MACKLIN
3204 3202.0 3204	0	4.5	165 ± 29	(170)	41.9 ± 0.7 41.9 ± 0.7		JENDL-2 77LITTLE+ 82MACKLIN
3221 3221	1	4.5	12.4 ± 1.4	(170)	5.8 ± 0.6 5.8 ± 0.6		JENDL-2 82MACKLIN
3227 3227	0	4.5	87 ± 5	(170)	24.0 ± 0.7 24.0 ± 0.7		JENDL-2 82MACKLIN
3242 3242	1	4.5	27 ± 2	(170)	11.7 ± 0.5 11.7 ± 0.5		JENDL-2 82MACKLIN
3262 3262	1	4.5	42 ± 3	(170)	16.8 ± 0.6 16.8 ± 0.6		JENDL-2 82MACKLIN
3271 3271	1	4.5	3.7 ± 0.6	(170)	1.8 ± 0.4 1.8 ± 0.4		JENDL-2 82MACKLIN
3295 3295	1	4.5	18 ± 2	(170)	8.3 ± 0.5 8.3 ± 0.5		JENDL-2 82MACKLIN

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3306 3306	0	4.5	862 ± 780	(170)	71.0 ± 1.5 71.0 ± 1.5		JENDL-2 82MACKLIN
3331 3331	0	4.5	332 ± 151	(170)	56.2 ± 0.8 56.2 ± 0.8		JENDL-2 82MACKLIN
3352 3352	1	4.5	12.7 ± 0.9	(170)	5.9 ± 0.4 5.9 ± 0.4		JENDL-2 82MACKLIN
3364 3364	1	4.5	21 ± 1	(170)	9.3 ± 0.5 9.3 ± 0.5		JENDL-2 82MACKLIN
3371 3371	1	4.5	5.8 ± 1.3	(170)	2.8 ± 0.6 2.8 ± 0.6		JENDL-2 82MACKLIN
3384 3384	1	4.5	43 ± 3	(170)	17.3 ± 0.7 17.3 ± 0.7		JENDL-2 82MACKLIN
3391 3391	1	4.5	33 ± 3	(170)	13.9 ± 0.8 13.9 ± 0.8		JENDL-2 82MACKLIN
3409 3409	1	4.5	34 ± 2	(170)	14.2 ± 0.5 14.2 ± 0.5		JENDL-2 82MACKLIN
3418 3418	0	4.5	73 ± 6	(170)	25.5 ± 0.7 25.5 ± 0.7		JENDL-2 82MACKLIN
3424 3424	0	4.5	181 ± 34	(170)	43.8 ± 0.6 43.8 ± 0.6		JENDL-2 82MACKLIN
3435 3435	0	4.5	83 ± 7	(170)	27.8 ± 0.5 27.8 ± 0.5		JENDL-2 82MACKLIN
3448 3448	1	4.5	9.3 ± 1.1	(170)	4.4 ± 0.5 4.4 ± 0.5		JENDL-2 82MACKLIN
3456 3456	0	4.5	642 ± 429	(170)	67.2 ± 0.7 67.2 ± 0.7		JENDL-2 82MACKLIN
3472 3472	1	4.5	12.9 ± 0.9	(170)	6.0 ± 0.4 6.0 ± 0.4		JENDL-2 82MACKLIN
3478 3478	1	4.5	5.6 ± 1.1	(170)	2.7 ± 0.5 2.7 ± 0.5		JENDL-2 82MACKLIN
3499 3499	0	4.5	148 ± 23	(170)	39.6 ± 0.6 39.6 ± 0.6		JENDL-2 82MACKLIN
3506 3506	1	4.5	33 ± 2	(170)	13.9 ± 0.7 13.9 ± 0.7		JENDL-2 82MACKLIN
3512 3512	1	4.5	10.9 ± 1.4	(170)	5.1 ± 0.6 5.1 ± 0.6		JENDL-2 82MACKLIN
3522 3522	1	4.5	3.9 ± 0.6	(170)	1.9 ± 0.3 1.9 ± 0.3		JENDL-2 82MACKLIN
3535 3535	1	4.5	7.1 ± 0.7	(170)	3.4 ± 0.3 3.4 ± 0.3		JENDL-2 82MACKLIN
3561 3561	0	4.5	68 ± 5	(170)	24.3 ± 0.5 24.3 ± 0.5		JENDL-2 82MACKLIN
3573 3573	1	4.5	51 ± 4	(170)	19.6 ± 0.7 19.6 ± 0.7		JENDL-2 82MACKLIN
3580 3580	0	4.5	118 ± 15	(170)	34.9 ± 0.6 34.9 ± 0.6		JENDL-2 82MACKLIN
3595 3595	0	4.5	102 ± 11	(170)	31.9 ± 0.6 31.9 ± 0.6		JENDL-2 82MACKLIN
3610 3610	0	4.5	552 ± 318	(170)	65.0 ± 0.7 65.0 ± 0.7		JENDL-2 82MACKLIN
3620 3620	1	4.5	20 ± 2	(170)	8.9 ± 0.5 8.9 ± 0.5		JENDL-2 82MACKLIN
3636 3636	1	4.5	23 ± 1	(170)	10.2 ± 0.4 10.2 ± 0.4		JENDL-2 82MACKLIN
3657 3657	0	4.5	66 ± 5	(170)	23.8 ± 0.6 23.8 ± 0.6		JENDL-2 82MACKLIN
3664 3664	1	4.5	39 ± 3	(170)	15.9 ± 0.6 15.9 ± 0.6		JENDL-2 82MACKLIN
3697 3697	1	4.5	58 ± 5	(170)	21.5 ± 0.9 21.5 ± 0.9		JENDL-2 82MACKLIN
3704 3704	0	4.5	706 ± 518	(170)	68.5 ± 0.8 68.5 ± 0.8		JENDL-2 82MACKLIN
3729 3729	0	4.5	153 ± 25	(170)	40.2 ± 0.7 40.2 ± 0.7		JENDL-2 82MACKLIN
3740 3740	0	4.5	151 ± 25	(170)	40.0 ± 1.0 40.0 ± 1.0		JENDL-2 82MACKLIN
3762 3762	1	4.5	18 ± 1	(170)	8.0 ± 0.4 8.0 ± 0.4		JENDL-2 82MACKLIN
3775 3775	1	4.5	15 ± 2	(170)	7.0 ± 0.8 7.0 ± 0.8		JENDL-2 82MACKLIN
3781	0	4.5	108 ± 13	(170)	33.0 ± 0.8		JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3781					33.0 ± 0.8		82MACKLIN
3800 3800	0	4.5	62 ± 5	(170)	22.7 ± 0.7 22.7 ± 0.7		JENDL-2 82MACKLIN
3809 3809	0	4.5	196 ± 40	(170)	45.5 ± 0.7 45.5 ± 0.7		JENDL-2 82MACKLIN
3832 3832	1	4.5	41 ± 3	(170)	16.6 ± 0.6 16.6 ± 0.6		JENDL-2 82MACKLIN
3845 3845	0	4.5	2840 ± 8421	(170)	80.2 ± 1.4 80.2 ± 1.4		JENDL-2 82MACKLIN
3860 3860	1	4.5	39 ± 3	(170)	16.0 ± 0.6 16.0 ± 0.6		JENDL-2 82MACKLIN
3871 3871	0	4.5	135 ± 20	(170)	37.7 ± 0.8 37.7 ± 0.8		JENDL-2 82MACKLIN
3881 3881	1	4.5	8.8 ± 1.1	(170)	4.2 ± 0.5 4.2 ± 0.5		JENDL-2 82MACKLIN
3890 3890	0	4.5	114 ± 14	(170)	34.1 ± 0.8 34.1 ± 0.8		JENDL-2 82MACKLIN
3900 3900	1	4.5	17 ± 2	(170)	7.8 ± 0.7 7.8 ± 0.7		JENDL-2 82MACKLIN
3908 3908	1	4.5	10.0 ± 1.6	(170)	4.7 ± 0.7 4.7 ± 0.7		JENDL-2 82MACKLIN
3923 3923	0	4.5	67 ± 7	(170)	24.1 ± 1.3 24.1 ± 1.3		JENDL-2 82MACKLIN
3930 3930	0	4.5	222 ± 52	(170)	48.1 ± 1.0 48.1 ± 1.0		JENDL-2 82MACKLIN
3937 3937	0	4.5	100 ± 12	(170)	31.5 ± 1.1 31.5 ± 1.1		JENDL-2 82MACKLIN
3966 3966	0	4.5	1780 ± 3310	(170)	77.6 ± 1.3 77.6 ± 1.3		JENDL-2 82MACKLIN
3984 3984	1	4.5	17 ± 2	(170)	7.9 ± 0.7 7.9 ± 0.7		JENDL-2 82MACKLIN
3994 3994	0	4.5	177 ± 33	(170)	43.3 ± 0.9 43.3 ± 0.9		JENDL-2 82MACKLIN
4017 4017	1	4.5	29 ± 2	(170)	12.4 ± 0.5 12.4 ± 0.5		JENDL-2 82MACKLIN
4035 4035	0	4.5	198 ± 41	(170)	45.7 ± 0.8 45.7 ± 0.8		JENDL-2 82MACKLIN
4049 4049	0	4.5	216 ± 50	(170)	47.6 ± 0.8 47.6 ± 0.8		JENDL-2 82MACKLIN
4059 4059	1	4.5	32 ± 3	(170)	13.5 ± 0.9 13.5 ± 0.9		JENDL-2 82MACKLIN
4065 4065	0	4.5	126 ± 17	(170)	36.1 ± 0.9 36.1 ± 0.9		JENDL-2 82MACKLIN
4076 4076	1	4.5	6.9 ± 1.1	(170)	3.3 ± 0.5 3.3 ± 0.5		JENDL-2 82MACKLIN
4085 4085	1	4.5	43 ± 3	(170)	17.1 ± 0.6 17.1 ± 0.6		JENDL-2 82MACKLIN
4093 4093	1	4.5	25 ± 2	(170)	11.0 ± 0.9 11.0 ± 0.9		JENDL-2 82MACKLIN
4100 4100	0	4.5	259 ± 70	(170)	51.3 ± 0.9 51.3 ± 0.9		JENDL-2 82MACKLIN
4115 4115	0	4.5	78 ± 7	(170)	26.7 ± 0.7 26.7 ± 0.7		JENDL-2 82MACKLIN
4125 4125	1	4.5	49 ± 3	(170)	18.9 ± 0.6 18.9 ± 0.6		JENDL-2 82MACKLIN
4142 4142	1	4.5	7.3 ± 0.7	(170)	3.5 ± 0.7 3.5 ± 0.7		JENDL-2 82MACKLIN
4148 4148	1	4.5	10.9 ± 1.1	(170)	5.1 ± 0.5 5.1 ± 0.5		JENDL-2 82MACKLIN
4164 4164	0	4.5	158 ± 29	(170)	40.9 ± 1.7 40.9 ± 1.7		JENDL-2 82MACKLIN
4168 4168	1	4.5	11 ± 4	(170)	5.2 ± 1.8 5.2 ± 1.8		JENDL-2 82MACKLIN
4175 4175	1	4.5	15 ± 2	(170)	6.9 ± 0.8 6.9 ± 0.8		JENDL-2 82MACKLIN
4183 4183	1	4.5	19 ± 1	(170)	8.5 ± 0.4 8.5 ± 0.4		JENDL-2 82MACKLIN
4194 4194	1	4.5	17 ± 1	(170)	7.7 ± 0.4 7.7 ± 0.4		JENDL-2 82MACKLIN
4207 4207	1	4.5	23 ± 1	(170)	10.3 ± 0.4 10.3 ± 0.4		JENDL-2 82MACKLIN

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	AMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
4230 4230	1	4.5	16 ± 1	(170)	7.4 ± 0.5 7.4 ± 0.5		JENDL-2 B2MACKLIN

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-150 -150	0 0	0.5 0.5	290	(48 ±25) (62)		WGH= 18	JENDL-2 BNL-325(4)
348.1 ± 0.5 348.1 ± 0.5 348.1 ± 0.5 (350)	0	0.5	0.24 ± 0.10 0.30 ± 0.15 0.30 ± 0.15	(48 ±25) 150 ±100 149.7 ±100.0	0.24 ± 0.10 2.4 ± 1.0	WGH= 0.016 ± 0.008 WGO= 0.01608 ± 0.00804 GT = 150 ±100	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
424.0 ± 0.5 424.0 ± 0.5 423.1 ± 0.5 424.9	0	0.5 0.5	61.0 ± 2.5 61.0 ± 2.5 61.0 ± 2.5	29 ±10 56 ±10 64.00 ±10.31 29 ±10	19.6 ± 4.0 19.6 ± 4.0 19.6 ± 4.0	WGH= 2.96 ± 0.12 WGO= 2.9655 ± 0.12155 GT = 125 ±10	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
435.5 ± 0.5 435.5 ± 0.5 435.0 ± 0.5 437	1 1	0.5 0.5	18.50 ± 0.25 18.50 ± 0.25 18.50 ± 0.25	40 ±24 157.5 ±20.0 157.5 ±20.0	12.6 ± 2.5 12.4 ± 2.5	WGI= 912.1 ±12.3 WGO= 0.88700 ± 1.198-2 GT = 176 ±20	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
841.0 ± 0.5 841.0 ± 0.5 841.6 ± 0.5 844	1 1	0.5 0.5	14.7 ± 0.2 14.7 ± 0.2 16.9 ± 0.2	36 ±25 185 ±60 183.1 ±60.0	10.4 ± 2.1 10.4 ± 2.1 10.4 ± 2.1	WGI= 228 ± 3 WGO= 0.55050 ± 0.00652 GT = 200 ±60	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
1320.5 ± 0.5 1320.5 ± 0.5 1320.0 ± 0.5 1323	1	0.5	11 ± 4 11 ± 4 8	28 ±33 292	7.9 ± 1.6 7.9 ± 1.6 7.9 ± 1.6	WGH= 0.3 ± 0.11 WGO= 0.2202 GT = 300	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
1459 ± 1 1459 ± 1 1456 ± 1. WGH+7 ± 5 1461	0	0.5	115 ± 5 115 ± 5	44 ±12 45 ±13 165.00 ±50.25 45 ±13	31.6 ± 6.3 31.6 ± 6.3 31.6 ± 6.3	WGH= 3.01 ± 0.13 WGO= 3.01200 ± 0.13095 GT = 280 ±50	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
1583 ± 1 1583 ± 1 1582 ± 1 1587	1	0.5	10.5 ± 1.0 10.5 ± 1.0 10.5 ± 1.0	45 ±50 289.5	8.5 ± 1.7 8.5 ± 1.7 8.5 ± 1.7	WGH= 0.264 ± 0.025 WGO= 0.26400 ± 0.02514 GT = 300	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
1837 ± 1 1837 ± 1 1836 ± 1 1839	0	0.5	600 ±85 600 ±85 750 ±25	37 ± 8 265.0 ±103.1 37 ± 8	35.2 ± 7.0 35.2 ± 7.0	WGH= 14 ± 2 WGO= 17.5050 ± 0.5835 GT = 1015 ±100	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
2971 ± 3 2971 ± 3 2968 ± 3 2969	0	0.5	1960 ±165 1960 ±165 2125 ±60	30 ± 6 30 ± 6 825.0 ±161.6 30 ± 6	29.5 ± 5.9 29.5 ± 5.9 29.5 ± 5.9	WGH= 35.96 ± 3.03 WGO= 39.0050 ± 1.1015 GT = 2950 ±150	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
3265 ± 3 3265 ± 3 3263 ± 3 3268	1	1.5	47.5 ± 7.5 95 ±15 95 ±15	89 ±58 705.0 178 ±880	62.0 ±12.4 62.0 ± 5.9 62.0 ±12.4	WGH= 1.7 ± 0.3 WGO= 1.6630 ± 0.2625 GT = 800	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
3544 ± 3 3544 ± 3 3545 ± 3 3549	1	1.5	32 ±15 21 ± 7 15	(48 ±25) 785	38.1 ± 7.6 3810.0 ± 7.6 38.1 ± 7.6	WGH= 0.35 ± 0.12 WGO= 0.25195 GT = 800	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
4080 ± 4 4080 ± 4 4080 ± 4 4082	1	1.5	26 ±11 25 25	(48 ±25) 575	33.9 ± 6.8 33.9 ± 6.8 33.9 ± 6.8	WGH= 0.39 WGO= 0.3914 GT = 600	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
5330 ± 5 5330 ± 5 5330 ± 5 5337	1	1.5	270 ±25 540 ±60 540 ±50	217 ±155 433 ±630	240.5 ±95.0 240.5 ±95.0 240.5 ±95.0	WGH= 7.4 ± 0.7 WGO= 7.395 ± 0.685	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
6108 ± 1 6108 ± 1 6108 ± 1 6106	0	0.5	213 ± 3 213 ± 3 107.5 ± 1.5	74 ±40 112 ±170	54.8 ±22.0 54.8 ±22.0 54.8 ±22.0	WGH= 2.73 ± 0.04 WGO= 1.97550 ± 1.919-2	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
6603 (6603)	1	0.5	18.4 ±10.8	(48 ±25)	13.3 ± 5.3 13.3 ± 5.3		JENDL-2 73BROWNE+
7076 ± 7 7076 ± 7 7078 ± 7 (7071)	0	0.5	890 ±100 890 ±100 445 ±50	38 ±14 34 ±16 34 ±16	31.8 ±13.0 54.8 ±22.0 31.8 ±13.0	WGH= 11 ± 1 WGO= 5.2900 ± 0.5945	JENDL-2 BNL-325(4) 71TELLIER 73BROWNE+
7936 ± 8 7936 ± 8 7936 ± 8	1	0.5	140 140 70	(48 ±25)		WGH= 1.6 WGO= 0.786	JENDL-2 BNL-325(4) 71TELLIER
10012 ±10 10012 ±10 10010 ±10	0	0.5	860 ±75 860 ±75 860 ±75	(48 ±25)		WGH= 8.59 ± 0.76 WGO= 8.5950 ± 0.7495	JENDL-2 BNL-325(4) 71TELLIER
10355 ±10 10355 ±10 10350 ±10	1	0.5	100 100 100	(48 ±25)		WGH= 1 WGO= 0.8825	JENDL-2 BNL-325(4) 71TELLIER
10656 ±10	0	0.5	7450 ±1250	(48 ±25)			JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
10656 ±10 10660 ±10			^R 7450 ±1250 ^R 7450 ±125			WGH= 72.2 ±12.1 WGO= 72.150± 1.211	BNL-325(4) 71TELLIER
10830 ±11 10830 ±11 10830 ±11	0	0.5	2000 ±100 ^R 2000 ±100 ^R 2000 ±100	(48 ±25)		WGH= 19.2 ± 1.0 WGO= 19.220± 0.961	JENDL-2 BNL-325(4) 71TELLIER
11495 ±15 11495 ±15 11490 ±15	0	0.5	12400 ±125 ^R 12400 ±125 ^R 12400 ±125	(48 ±25)		WGH= 115.66 ± 1.17 WGO= 115.650± 1.166	JENDL-2 BNL-325(4) 71TELLIER
12096 ±15 12096 ±15 12100 ±15	1	0.5	300 ^R 300 ^R 300	(48 ±25)		WGH= 3 WGO= 2.7275	JENDL-2 BNL-325(4) 71TELLIER
12828 ±15 12828 ±15 12830 ±15	1	0.5	500 ^R 500 ^R 500	(48 ±25)		WGH= 4 WGO= 4.4145	JENDL-2 BNL-325(4) 71TELLIER
12893 ±15 12893 ±15 12890 ±15	0	0.5	4975 ±250 ^R 4975 ±250 ^R 4975 ±250	(48 ±25)		WGH= 43.81 ± 2.20 WGO= 43.8150± 2.2015	JENDL-2 BNL-325(4) 71TELLIER
12960 ±20 12960 ±20 12960 ±20	1	0.5	250 ^R 250 ^R 250	(48 ±25)		WGH= 2.2 WGO= 2.196	JENDL-2 BNL-325(4) 71TELLIER
13080 ±20 13080 ±20 13080 ±20	0	0.5	1358 ±130 ^R 1358 ±130 ^R 1357.5 ±130.0	(48 ±25)		WGH= 11.87 ± 1.14 WGO= 11.8700± 1.1365	JENDL-2 BNL-325(4) 71TELLIER
14600 ±20 14600 ±20 14600 ±20	0	0.5	3200 ±300 ^R 3200 ±300 ^R 3200 ±300	(48 ±25)		WGH= 26 ± 2 WGO= 26.485± 2.483	JENDL-2 BNL-325(4) 71TELLIER
15330 ±20 15330 ±20 15330 ±20	1	0.5	500 ^R 500 ^R 500	(48 ±25)		WGH= 4 WGO= 4.0385	JENDL-2 BNL-325(4) 71TELLIER
16340 ±20 16340 ±20 16340 ±20	1	0.5	700 ^R 700 ^R 700	(48 ±25)		WGH= 5 WGO= 5.475	JENDL-2 BNL-325(4) 71TELLIER
17010 ±20 17010 ±20 17010 ±20	0	0.5	4075 ±400 ^R 4075 ±400 ^R 4075 ±400	(48 ±25)		WGH= 31.24 ± 3.07 WGO= 31.245± 3.067	JENDL-2 BNL-325(4) 71TELLIER
17520 ±20 17520 ±20 17520 ±20	0	0.5	2775 ±300 ^R 2775 ±300 ^R 2775 ±300	(48 ±25)		WGH= 20.97 ± 2.27 WGO= 20.9650± 2.2665	JENDL-2 BNL-325(4) 71TELLIER
17990 ±25 17990 ±25 17990 ±25	0	0.5	1690 ±250 ^R 1690 ±250 ^R 1690 ±250	(48 ±25)		WGH= 12.6 ± 1.9 WGO= 12.600± 1.864	JENDL-2 BNL-325(4) 71TELLIER
18900 ±25 18900 ±25 18900 ±25	1	0.5	1000 ^R 1000 ^R 1000	(48 ±25)		WGH= 7 WGO= 7.275	JENDL-2 BNL-325(4) 71TELLIER
19420 ±25 19420 ±25 19420 ±25	0	0.5	3525 ±375 ^R 3525 ±375 ^R 3525 ±375	(48 ±25)		WGH= 25.29 ± 2.69 WGO= 25.295± 2.691	JENDL-2 BNL-325(4) 71TELLIER
19700 ±25 19700 ±25 19700 ±25	1	0.5	500 ^R 500 ^R 500	(48 ±25)		WGH= 4 WGO= 3.5625	JENDL-2 BNL-325(4) 71TELLIER
20220 ±25 20220 ±25 20220 ±25	1	0.5	500 ^R 500 ^R 500	(48 ±25)		WGH= 4 WGO= 3.516	JENDL-2 BNL-325(4) 71TELLIER
21025 ±25 21025 ±25 21020 ±25	1	0.5	500 ^R 500 ^R 500	(48 ±25)		WGH= 3 WGO= 3.4485	JENDL-2 BNL-325(4) 71TELLIER
21820 21820 21820 ±30	0	0.5	14150 ±500 ^R 14150 ±500 ^R 14150 ±500	(48 ±25)		WGH= 95.79 ± 3.38 WGO= 95.800± 3.385	JENDL-2 BNL-325(4) 71TELLIER

A.10 Barium-134

ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-104 -104	0	0.5	332	(120 ±20) (114)		COM= M-L-B-W WGH= 34	JENDL-2 BNL-325(4)
101.8 101.8 ± 0.3 101.8 102.9	0	0.5	150 ±10 R 150 ±10 R 160 ±10 R 140 ±10	80 ±18 80 ±18 70		WGH= 14.9 ± 1.0 GT = 230 ±15	JENDL-2 BNL-325(4) 69ALYES+ 71VAN-DE-VYVER+
263 263 ± 1 263	0	0.5	R 0.7 ± 0.5 R 0.7 ± 0.5 R 0.7 ± 0.5	(120 ±20)		WGH= 0.04 ± 0.03	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
329 329 ± 1 329	0	0.5	R 2.1 ± 0.9 R 2.1 ± 0.9 R 2.1 ± 0.9	(120 ±20)		WGH= 0.12 ± 0.05	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
501 501 ± 1 500 501	0	0.5	R 48 ± 5 R 48 ± 5 R 50 ± 5 R 47 ± 16	(120 ±20)		WGH= 2.1 ± 0.2	JENDL-2 BNL-325(4) 69ALYES+ 71VAN-DE-VYVER+
975 975 ± 1 975 975	0	0.5	R 65 ±15 R 65 ±15 R 66) R 64 ±40	(120 ±20)		WGH= 2.1 ± 0.5 COM= NOT ASSIGNED	JENDL-2 BNL-325(4) 69ALYES+ 71VAN-DE-VYVER+
1226 1226 ± 1 1226 1226	0	0.5	R 720 ±100 R 720 ±100 R 690) R 750 ±260	(120 ±20)		WGH= 21 ± 3 COM= BA-135 ?	JENDL-2 BNL-325(4) 69ALYES+ 71VAN-DE-VYVER+
1359 1359	1	1.5	0.36	(120 ±20)		COM= ARTIFICIAL	JENDL-2 BNL-325(4)
1626 1620 ± 1 1626 1626	0	0.5	R 300 ±280 R 300 ±280 R 1130) R 300 ±280	(120 ±20)		WGH= 7.5 ± 7.0 COM= NOT ASSIGNED	JENDL-2 BNL-325(4) 69ALYES+ 71VAN-DE-VYVER+
1669	1	0.5	3.8	(120 ±20)		COM= ARTIFICIAL	JENDL-2
1839	1	1.5	0.8	(120 ±20)		COM= ARTIFICIAL	JENDL-2
1893 1892 ± 1 1893 1893	0	0.5	R 150 ±130 R 150 ±130 R 600) R 150 ±130	(120 ±20)		WGH= 3.4 ± 3.0 COM= NOT ASSIGNED	JENDL-2 BNL-325(4) 69ALYES+ 71VAN-DE-VYVER+
1955	1	1.5	0.32	(120 ±20)		COM= ARTIFICIAL	JENDL-2
2068	1	0.5	0.82	(120 ±20)		COM= ARTIFICIAL	JENDL-2
2275	1	1.5	0.86	(120 ±20)		COM= ARTIFICIAL	JENDL-2
2647	1	1.5	3.3	(120 ±20)		COM= ARTIFICIAL	JENDL-2
2689	1	0.5	5.2	(120 ±20)		COM= ARTIFICIAL	JENDL-2
2728	0	0.5	545	(120 ±20)		COM= ARTIFICIAL	JENDL-2
2831	1	0.5	7.8	(120 ±20)		COM= ARTIFICIAL	JENDL-2
2858	1	1.5	1.4	(120 ±20)		COM= ARTIFICIAL	JENDL-2
2988	1	0.5	3.0	(120 ±20)		COM= ARTIFICIAL	JENDL-2
3145 3145 3145	1	0.5	R 80 R 80 R 80	120	48 48 48	WGH= 1	JENDL-2 BNL-325(4) 76MUSGROVE+
3237 3237 3237	1	0.5	R 114 R 114 114	118	58 58 58	WGH= 2	JENDL-2 BNL-325(4) 76MUSGROVE+
3262 3262 3262	1	0.5	R 71 R 71 71	123	45 45 45	WGH= 1.2	JENDL-2 BNL-325(4) 76MUSGROVE+
3427 3427 3427	0	0.5	R 1000 ±500 R 1000 ±500 1000 ±500	107 107 107	97 97 97	WGH= 17 ± 9 GNO= 17	JENDL-2 BNL-325(4) 76MUSGROVE+
3692 3692 3692	1	0.5	R 39 R 39 39	113	29 29 29	WGH= 0.64	JENDL-2 BNL-325(4) 76MUSGROVE+
3865 3865 3865	1	0.5	R 180 R 180 180	123	73 73 73	WGH= 2.9	JENDL-2 BNL-325(4) 76MUSGROVE+
3911 3911 3911	0	0.5	R 8000 ±2000 R 8000 ±2000 8000 ±2000	91 91 91	90 90 90	WGH= 130 ±30 GNO= 132	JENDL-2 BNL-325(4) 76MUSGROVE+
3946 3946 3946	1	0.5	R 65 R 65 65	119	42 42 42	WGH= 1	JENDL-2 BNL-325(4) 76MUSGROVE+
4011 4011 4011	1	0.5	R 34 R 34 34	111	26 26 26	WGH= 0.54	JENDL-2 BNL-325(4) 76MUSGROVE+
4149 4149 4149	1	0.5	R 85 R 85 85	121	50 50 50	WGH= 1.3	JENDL-2 BNL-325(4) 76MUSGROVE+
4300	1	0.5	135	118	63		JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEDUS	REFERENCE
4300 4300			R 135 135		63 63	WGH= 2.06	BNL-325(4) 76MUSGROVE+
4509 4509 4509	1	0.5	R 35 35 35	118	27 27 27	WGH= 0.52	JENDL-2 BNL-325(4) 76MUSGROVE+
4549 4549 4605 4549	0	0.5	R 10000 ±3000 10000 ±3000 10000 ±3000	111 111	110 110 110	WGH= 150 ±40 GNO= 148	JENDL-2 BNL-325(4) 71YAN-DE-VYVER+ 76MUSGROVE+
4848 4848 4848	0	0.5	R 1000 ±500 1000 ±500 1000 ±500	158 158 158	136 136 136	WGH= 14 ± 7 GNO= 14	JENDL-2 BNL-325(4) 76MUSGROVE+
4876 4876 4876	1	0.5	R 79 79 79	122	48 48 48	WGH= 1.1	JENDL-2 BNL-325(4) 76MUSGROVE+
4956 4956 4956	1	0.5	R 30 30 30	120	24 24 24	WGH= 0.4	JENDL-2 BNL-325(4) 76MUSGROVE+
4986 4986 4986	1	0.5	R 99 99 99	119	54 54 54	WGH= 1.4	JENDL-2 BNL-325(4) 76MUSGROVE+
5336 5336 5336	0	0.5	(1000) (1000) (1000)	177 177 177	150 150 150	GNO=(14)	JENDL-2 BNL-325(4) 76MUSGROVE+
5373 5373 5373	0	0.5	(1000) (1000) (1000)	115 115 115	103 103 103	GNO=(14)	JENDL-2 BNL-325(4) 76MUSGROVE+
5399 5399 5399	1	0.5	R 99 99 99	119	54 54 54	WGH= 1.3	JENDL-2 BNL-325(4) 76MUSGROVE+
5440 5440 5440	1	0.5	R 118 118 118	118	59 59 59	WGH= 1.6	JENDL-2 BNL-325(4) 76MUSGROVE+
5946 5946 5946	1	0.5	R 78 78 78	118	47 47 47	WGH= 1	JENDL-2 BNL-325(4) 76MUSGROVE+
6056 6056 6056	1	0.5	168	(120 ±20)	70 70 70		JENDL-2 BNL-325(4) 76MUSGROVE+
6141 6141 6141	1	0.5	46	(120 ±20)	33 33 33		JENDL-2 BNL-325(4) 76MUSGROVE+
6191 6191 6191	1	0.5	186	(120 ±20)	73 73 73		JENDL-2 BNL-325(4) 76MUSGROVE+
6222 6222 6222	1	0.5	142	(120 ±20)	65 65 65		JENDL-2 BNL-325(4) 76MUSGROVE+
6315 6315 6315	1	0.5	102	(120 ±20)	55 55 55		JENDL-2 BNL-325(4) 76MUSGROVE+
6544 6544 6544	1	0.5	231	(120 ±20)	79 79 79		JENDL-2 BNL-325(4) 76MUSGROVE+
6622 6622 6622	1	0.5	86	(120 ±20)	50 50 50		JENDL-2 BNL-325(4) 76MUSGROVE+
6783 6783 6783	1	0.5	137	(120 ±20)	64 64 64		JENDL-2 BNL-325(4) 76MUSGROVE+
6877 6877 6877	1	0.5	83	(120 ±20)	49 49 49		JENDL-2 BNL-325(4) 76MUSGROVE+
7050 7050 7050	1	0.5	92	(120 ±20)	52 52 52		JENDL-2 BNL-325(4) 76MUSGROVE+
7089 7089 7089	1	0.5	40	(120 ±20)	30 30 30		JENDL-2 BNL-325(4) 76MUSGROVE+
7211 7211 7211	1	0.5	304	(120 ±20)	86 86 86		JENDL-2 BNL-325(4) 76MUSGROVE+
7639 7639 7639	1	0.5	200	(120 ±20)	75 75 75		JENDL-2 BNL-325(4) 76MUSGROVE+
8170 8170 8170	1	1.5	456	(120 ±20)	190 190 190		JENDL-2 BNL-325(4) 76MUSGROVE+
8229 8229	0	0.5	R 10000 ±3000 10000 ±3000	134 136	134 134	WGH= 110 ±30	JENDL-2 BNL-325(4)

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)		GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
			10000	+3000				
8229					136	134	DND= 110	76MUSGROVE+
8366 8366 8366	1	0.5	240		(120 ±20)	80 80 80		JENDL-2 BNL-325(4) 76MUSGROVE+
8394 8394 8394	1	0.5	180		(120 ±20)	72 72 72		JENDL-2 BNL-325(4) 76MUSGROVE+
8768 8768 8768	1	0.5	124		(120 ±20)	61 61 61		JENDL-2 BNL-325(4) 76MUSGROVE+
8858 8858 8858	1	1.5	620		(120 ±20)	201 201 201		JENDL-2 BNL-325(4) 76MUSGROVE+
8970 8970 8970	1	0.5	33		(120 ±20)	26 26 26		JENDL-2 BNL-325(4) 76MUSGROVE+
9089 9089 9089	1	1.5	316		(120 ±20)	174 174 174		JENDL-2 BNL-325(4) 76MUSGROVE+
9160 9160 9160	1	0.5	168		(120 ±20)	70 70 70		JENDL-2 BNL-325(4) 76MUSGROVE+
9180 9180 9180	1	1.5	269		(120 ±20)	166 166 166		JENDL-2 BNL-325(4) 76MUSGROVE+
9301 9301 9301	0	0.5	534		(120 ±20)	98 98 98		JENDL-2 BNL-325(4) 76MUSGROVE+
9378 9378 9378	1	1.5	377		(120 ±20)	182 182 182		JENDL-2 BNL-325(4) 76MUSGROVE+
9434 9434 9434	1	0.5	147		(120 ±20)	66 66 66		JENDL-2 BNL-325(4) 76MUSGROVE+
9673 9673 9673	0	0.5	727		(120 ±20)	103 103 103		JENDL-2 BNL-325(4) 76MUSGROVE+
9785 9785 9785	0	0.5	(1000)		147	128 128 128		JENDL-2 BNL-325(4) 76MUSGROVE+
9900 9900 9900	1	1.5	198		(120 ±20)	149 149 149		JENDL-2 BNL-325(4) 76MUSGROVE+
10045 10045 10045	0	0.5	637		(120 ±20)	101 101 101		JENDL-2 BNL-325(4) 76MUSGROVE+
10104 10104 10104	1	1.5	304		(120 ±20)	172 172 172		JENDL-2 BNL-325(4) 76MUSGROVE+
10127 10127 10127	1	0.5	394		(120 ±20)	92 92 92		JENDL-2 BNL-325(4) 76MUSGROVE+
10148 10148 10148	1	0.5	344		(120 ±20)	89 89 89		JENDL-2 BNL-325(4) 76MUSGROVE+
10231 10231 10231	1	1.5	413		(120 ±20)	186 186 186		JENDL-2 BNL-325(4) 76MUSGROVE+
10534 10534 10534	1	1.5	809		(120 ±20)	209 209 209		JENDL-2 BNL-325(4) 76MUSGROVE+
10621 10621 10621	0	0.5	2760		(120 ±20)	115 115 115		JENDL-2 BNL-325(4) 76MUSGROVE+

A.11 Barium-135

ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-51 -51	0 0	2 2	196	(150 ±20) (140)		COM= M-L-B-W WGO= 31.9	JENDL-2 BNL-325(4)
24.2 24.37 ± 0.10 24 24.4 24.4	0 0 1 1	1 1 1 1	30 ±10 R 10.7 ± 0.3 R 11.8 ± 0.6 R 28.2 ± 1.0	91 ±13 106 ± 5 105 99 ± 6		GT = 121 ± 8 WGO= 2.17 ± 0.06 GT = 121 ± 8	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
26.0			R 0.012± 0.006				71VAN-DE-VYVER+
81.5 82.0 ± 0.6 82 80.9 80.9	0 2 2 2	2 2 2	150 ± 6 R 185 ±10 R 194.6 ±10 R 180 ±10	107 ±16 107 ±10 104		GT = 260 ±15 WGO= 20.4 ± 1.1 GT = 260 ±15	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
87.2 86.8 ± 0.8 88 86.4 86.2	0 2 2 2	2 2 2	71 ±10 R 74 ± 6 R 81 ± 4 R 106 ± 8	101 ±16 118 ± 7 107 132 ±30		GT = 172 ±13 WGO= 7.9 ± 0.6 GT = 172 ±13	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
104.0 104.0 ± 0.8 104 104.6	0 1 1 1	1 1 1	167 ± 2 R 124 ±10 R 124 ± 8 R 126 ± 6	103 ±20 106 ± 2 106		GT = 270 ±20 WGO= 12.2 ± 1.0 GT = 270 ±20	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+
104.4 104.4 ± 0.8 104.4	0 2 2	2 2	11.5 ± 1.6 R 14.4 ± 2.0 R 14.4 ± 2	110.5 ±15 111		GT = 122 ±15 WGO= 1.41 ± 0.20 GT = 122 ±15	JENDL-2 BNL-325(4) 69ALVES+
219 ± 1 219 219	0	1.5	R 4.8 R 4.8 ± 1.0 R 4.8 ± 1.0	(150 ±20)		WGO= 0.32 ± 0.07	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 74BERMAN+
220		2	R 90 ± 6				69ALVES+
224 ± 1 223 224 224	0 2 2	2 2	28.8 R 40 ± 6 R 36 ± 6	(150 ±20)		WGO= 2.7 ± 0.4	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 74BERMAN+
243 ± 1 243 243	0	1.5	R 3.2 R 3.2 ± 1.2 R 3.2 ± 1.2	(150 ±20)		WGO= 0.21 ± 0.08	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
282.5 ± 2 283 282 283 283	0 2 2 2	2 2 2	310 ±21 R 355 ±30 R 402 ±20 R 340 ±30	100 ±45 105 ±25 88		GT = 410 ±40 WGO= 21.1 ± 1.8 GT = 410 ±40	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
315.5 ± 1 315 314.9 316 316	0 2 2 2	2 2 2	79 ± 8 R 98 ± 8 R 100 ± 8 R 88 ±18	94 ±22 95 ±22 90		GT = 173 ±20 WGO= 5.5 ± 0.5 GT = 173 ±20	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
377 ± 2 378 376 378 377	0 1 1 1	1 1 1	183 ±28 R 138 ±12 R 138 ±12 R 212 ±60	107 ±34 116 ±30 116		GT = 300 ±30 WGO= 7.10 ± 0.62 GT = 300 ±30	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
406 ± 1 408 405.2 407 406	0 2 2 2	2 2 2	487 ±40 R 610 ±50 R 660 ±50 R 560 ±50	143 ±72 104		GT = 630 ±60 WGO= 30 ± 2 GT = 630 ±60	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
435 ± 2 434 435 435 434	0 2 2 2	2 2 2	19 ± 1 R 23 ± 3 R 24 ± 3 R 22 ± 8	(150 ±20)		WGO= 1.1 ± 0.1	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
467 ± 3 467 466 468 466	0 2 2 2	2 2 2	72 ± 1 R 90 ± 8 R 90 ± 8 R 88 ±18	(150 ±20)		WGO= 4.2 ± 0.4	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
540	0	2	7.2	(150 ±20)		COM= ARTIFICIAL	JENDL-2
569	0	2	22	(150 ±20)		COM= ARTIFICIAL	JENDL-2
649 ± 3 649 649	0 1 1	1 1 1	163 ±16 R 122 ±12 R 122 ±12	(150 ±20)		WGO= 4.79 ± 0.47	JENDL-2 BNL-325(4) 69ALVES+
653 ± 3 651 655 653	0 2 2 2	2 2 2	106 ± 2 R 132 ±12 R 132 ±12 R 140 ±40	(150 ±20)		WGO= 5.17 ± 0.47	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
671 ± 3 671 671	1 1 1	1.5	10 ± 6 R 10 ± 6 R 10 ± 6	(150 ±20)		WGO= 0.39 ± 0.23	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
722.5 ± 3 722 721 724	0 2 2 2	2 2 2	67 ± 8 R 52 ±16 R 94 ± 8 R 44 ±16	(150 ±20)		WGO= 1.9 ± 0.6	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
819	0	1	5.5	(150 ±20)		COM= ARTIFICIAL	JENDL-2
834 ± 3	1	1.5	20 ±10 20 ±10 20 ±10	(150 ±20)		WGO= 0.7 ± 0.3	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
882 ± 3	0	2	1130 ±90 1350 ±120 1480 ±120 1240 ±160	(150 ±20)		WGO= 45.8 ± 4.0 GT = 1300 ±150	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+
942 ± 3	0	1	446 ±42 300 ±60 340 ±30 160 ±80	(150 ±20)		WGO= 9.8 ± 2.0	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
956	0	2	18	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1032 ± 3	0	2	272 ±64 340 ±80 (2) 210 420 ±80	(150 ±20)		WGO= 11 ± 2 COM= NOT ASSIGNED	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
1053	0	1	43	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1056	0	2	88	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1102	0	2	73	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1143	0	2	25	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1159 ± 4	0	1.5	280 ±80 260 ±80 190 360 ±100	(150 ±20)		WGO= 8.2 ± 2.4 COM= NOT ASSIGNED	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+
1189	1	1	1.2	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1202 ± 4	0	2	888 ±176 1110 ±220 (2) 1660 1110 ±220	(150 ±20)		WGO= 32.0 ± 6.3	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+
1224 ± 4	0	1	677 508 508	(150 ±20)		WGO= 14.5 COM= BA-134 ?	JENDL-2 BNL-325(4) 69ALVES+
1277 ± 4	0	2	280 ±22 320 ±70 (2) 360 280 ±70	(150 ±20)		WGO= 9 ± 2	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
1357	0	2	56	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1364	0	1	25	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1397			(1130)			COM= NOT ASSIGNED	69ALVES+
1405 ± 4	0	1.5	1200 ±300 1200 ±300 1200 ±300	(150 ±20)		WGO= 32 ± 8	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 74BERMAN+
1405			(330)			COM= NOT ASSIGNED	69ALVES+
1440	0	1	160	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1448	0	2	44	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1489	1	2	1.7	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1492	1	1	1.2	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1543	0	1	54	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1547	1	2	1.4	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1576	0	2	17	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1595	0	2	5	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1621 ± 5	0	1.5	830 830	(150 ±20)		WGO= 21 COM= DOUBLET	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 74BERMAN+
1653	0	2	48	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1685	0	2	2	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1726 ± 5	0	2	370	(150 ±20)		COM= ARTIFICIAL	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
1776	0	1	150	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1789	0	2	260	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1820	0	1	140	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1826	1	1	2	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1863	0	2	130	(150 ±20)		COM= ARTIFICIAL	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1876 1876 ± 5 1876 1890	0	1	955	(150 ±20)		COM= ARTIFICIAL	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 74BERMAN+
1927	0	2	78	(150 ±20)		COM= ARTIFICIAL	JENDL-2
1964	0	1	3	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2000 2000 ± 6 2002 2000 1998	0	2	440 (410)	(150 ±20)		COM= ARTIFICIAL COM= NOT ASSIGNED	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+ 74BERMAN+
2050	0	2	30	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2129	1	1	2.3	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2152	0	2	77	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2170	0	2	7.8	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2193	1	2	1.2	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2216	0	1	88	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2225	1	3	1.4	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2239	1	1	3.8	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2256 2256 ± 6 2256	0	2	420	(150 ±20)		COM= ARTIFICIAL	JENDL-2 BNL-325(4) 74BERMAN+
2275	0	1	1196	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2291	0	2	98	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2306	1	2	1.3	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2319	0	2	5	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2344	0	1	144	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2398	1	1	1.2	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2417	0	2	8	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2463	0	2	123	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2496	0	1	81	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2524	1	2	1.2	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2543	0	2	164	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2571	0	2	890	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2578	1	3	1.0	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2605	0	2	561	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2611	1	3	1.9	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2631	0	1	23	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2634	0	2	453	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2695	0	2	50	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2717	0	2	310	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2730	1	2	1.2	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2750	1	0	11	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2780	1	2	1.6	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2791	0	1	21	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2838	0	2	130	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2844	0	1	86	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2869	1	2	1.0	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2894	0	2	69	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2922	0	2	38	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2941	0	2	168	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2964	0	2	77	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2977	0	1	101	(150 ±20)		COM= ARTIFICIAL	JENDL-2
2988	1	1	2.6	(150 ±20)		COM= ARTIFICIAL	JENDL-2
3059 3059 ± 3 3059 ± 3	0 0 0	2 2 2	300	187 >187 >187	72 ±16 72 ±16 72 ±16		JENDL-2 BNL-325(4) 74MUSGROVE+
3098 3098 ± 3 3098 ± 3	1 1 1	1.5	10.7 ± 3.5 10 10	(150 ±20) (150) (150)	5.0 ± 1.5 5.0 ± 1.5 5.0 ± 1.5	WGI= 15 WGI= 15	JENDL-2 BNL-325(4) 74MUSGROVE+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WHS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3108 3108 ± 3 3108 ± 3	1 1 1	1.5	10.7 ± 3.5 R 10 R 10	(150 ±20) (150) (150)	5.0 ± 1.5 5.0 ± 1.5 5.0 ± 1.5	WGI= 15 WGI= 15	JENDL-2 BNL-325(4) 74MUSGROVE+
3120 3120 ± 3 3120 ± 3	1 1 1	1.5	15.4 ± 5 R 14 R 14	(150 ±20) (150) (150)	7 ± 2 7 ± 2 7 ± 2	WGI= 17.5 WGI= 17.5	JENDL-2 BNL-325(4) 74MUSGROVE+
3147 3147 ± 3 3147 ± 3	1 1 1	1.5	8.5 ± 2.7 R 8 R 8	(150 ±20) (150) (150)	4.0 ± 1.2 4.0 ± 1.2 4.0 ± 1.2	WGI= 10 WGI= 10	JENDL-2 BNL-325(4) 74MUSGROVE+
3199 3199 ± 3 3199 ± 3	0 0 0	2	400	150 >150 >150	68 ±15 68 ±15 68 ±15		JENDL-2 BNL-325(4) 74MUSGROVE+
3231 3231 ± 3 3231 ± 3	0 0 0	1.5	31 ± 9 R 32 R 32	(150 ±20) (150) (150)	13 ± 3 13 ± 3 13 ± 3	WGO= 0.56 WGO= 0.56	JENDL-2 BNL-325(4) 74MUSGROVE+
3277 3277 ± 3 3277 ± 3	0 0 0	1.5	89 ±13 R 90 R 90	(150 ±20) (150) (150)	28 ± 2 28 ± 2 28 ± 2	WGO= 2 WGO= 2	JENDL-2 BNL-325(4) 74MUSGROVE+
3288 3288 ± 3 3288 ± 3	1 1 1	1.5	23 ± 8 R 22 R 22	(150 ±20) (150) (150)	10 ± 3 10 ± 3 10 ± 3	WGI= 25.5 WGI= 25.5	JENDL-2 BNL-325(4) 74MUSGROVE+
3305 3305 ± 3 3305 ± 3	1 1 1	1.5	13 ± 4 R 14 R 14	(150 ±20) (150) (150)	6.0 ± 1.5 6.0 ± 1.5 6.0 ± 1.5	WGI= 16 WGI= 16	JENDL-2 BNL-325(4) 74MUSGROVE+
3321 3321 ± 3 3321 ± 3	1 1 1	1.5	6.3 ± 2.2 R 6 R 6	(150 ±20) (150) (150)	3 ± 1 3 ± 1 3 ± 1	WGI= 5 WGI= 5	JENDL-2 BNL-325(4) 74MUSGROVE+
3340 3340 ± 3 3340 ± 3	1 1 1	1.5	20 ± 5 R 22 R 22	(150 ±20) (150) (150)	9 ± 2 9 ± 2 9 ± 2	WGI= 25 WGI= 25	JENDL-2 BNL-325(4) 74MUSGROVE+
3358 3358 ± 3 3358 ± 3	0 0 0	1.5	51 ±11 R 52 R 52	(150 ±20) (150) (150)	19 ± 3 19 ± 3 19 ± 3	WGO= 0.9 WGO= 0.9	JENDL-2 BNL-325(4) 74MUSGROVE+
3402 3402 ± 3 3402 ± 3	0 0 0	1.5	71 ±14 R 72 R 72	(150 ±20) (150) (150)	24 ± 3 24 ± 3 24 ± 3	WGO= 1.2 WGO= 1.2	JENDL-2 BNL-325(4) 74MUSGROVE+
3419 3419 ± 3 3419 ± 3	0 0 0	2	700	120 >120 >120	64 ±16 64 ±16 64 ±16		JENDL-2 BNL-325(4) 74MUSGROVE+
3432 3432 ± 3 3432 ± 3	0 0 0	1.5	37.5 ± 7 R 36 R 36	(150 ±20) (150) (150)	15 ± 2 15 ± 2 15 ± 2	WGO= 0.61 WGO= 0.61	JENDL-2 BNL-325(4) 74MUSGROVE+
3464 3464 ± 4 3464 ± 4	0 0 0	1.5	34.4 ± 6 R 32 R 32	(150 ±20) (150) (150)	14 ± 2 14 ± 2 14 ± 2	WGO= 0.54 WGO= 0.54	JENDL-2 BNL-325(4) 74MUSGROVE+
3481 3481 ± 4 3481 ± 4	0 0 0	2	464	116 >116 >116	58 ±15 58 ±15 58 ±15		JENDL-2 BNL-325(4) 74MUSGROVE+
3507 3507 ± 4 3507 ± 4	0 0 0	1.5	71 ±10 R 72 R 72	(150 ±20) (150) (150)	24 ± 2 24 ± 2 24 ± 2	WGO= 1.2 WGO= 1.2	JENDL-2 BNL-325(4) 74MUSGROVE+
3588 3588 ± 4 3588 ± 4	0 0 0	1.5	100 ±25 R 98 R 98	(150 ±20) (150) (150)	30 ± 4 30 ± 4 30 ± 4	WGO= 1.6 WGO= 1.6	JENDL-2 BNL-325(4) 74MUSGROVE+
3605 3605 ± 4 3605 ± 4	0 0 0	1	752	170 170 170	52 ± 9 52 ± 9 52 ± 9		JENDL-2 BNL-325(4) 74MUSGROVE+
3626 3626 ± 4 3626 ± 4	1 1 1	1.5	23 ± 8 R 24 R 24	(150 ±20) (150) (150)	10 ± 3 10 ± 3 10 ± 3	WGI= 24 WGI= 24	JENDL-2 BNL-325(4) 74MUSGROVE+
3639 3639 ± 4 3639 ± 4	0 0 0	1.5	44 ±10 R 44 R 44	(150 ±20) (150) (150)	17 ± 3 17 ± 3 17 ± 3	WGO= 0.73 WGO= 0.73	JENDL-2 BNL-325(4) 74MUSGROVE+
3649 3649 ± 4 3649 ± 4	0 0 0	1.5	64 ±20 R 64 R 64	(150 ±20) (150) (150)	27 ± 4 27 ± 4 27 ± 4	WGO= 1.4 WGO= 1.4	JENDL-2 BNL-325(4) 74MUSGROVE+
3675 3675 ± 4 3675 ± 4	0 0 0	1.5	138 ±23 R 134 R 134	(150 ±20) (150) (150)	36 ± 2 36 ± 2 36 ± 2	WGO= 2.21 WGO= 2.21	JENDL-2 BNL-325(4) 74MUSGROVE+
3710 3710 ± 4 3710 ± 4	0 0 0	1.5	100 ±20 R 98 R 98	(150 ±20) (150) (150)	30 ± 3 30 ± 3 30 ± 3	WGO= 1.6 WGO= 1.6	JENDL-2 BNL-325(4) 74MUSGROVE+
3754 3754 ± 4 3754 ± 4	0 0 0	1	796	145 >145 >145	46 ± 7 46 ± 7 46 ± 7		JENDL-2 BNL-325(4) 74MUSGROVE+
3785 3785 ± 4 3785 ± 4	1 1 1	1.5	18 ±10 R 18 R 18	(150 ±20) (150) (150)	8 ± 4 8 ± 4 8 ± 4	WGI= 17 WGI= 17	JENDL-2 BNL-325(4) 74MUSGROVE+
3818 3818 ± 4	0 0	1.5	51 ±15 R 48	(150 ±20) (150)	19 ± 4 19 ± 4	WGO= 0.78	JENDL-2 BNL-325(4)

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3818 ± 4	0		R 48	(150)	19 ± 4	WGO= 0.78	74MUSGROVE+
3826	0	1.5	R 71 ±22	(150 ±20)	24 ± 5		JENDL-2
3826 ± 4	0		R 70	(150)	24 ± 5	WGO= 1	BNL-325(4)
3826 ± 4	0		R 70	(150)	24 ± 5	WGO= 1	74MUSGROVE+
3837	1	1.5	R 23 ±13	(150 ±20)	10 ± 5		JENDL-2
3837 ± 4	1		R 22	(150)	10 ± 5	WGI= 20	BNL-325(4)
3837 ± 4	1		R 22	(150)	10 ± 5	WGI= 20	74MUSGROVE+
3959	0	1	760	157	49 ± 9		JENDL-2
3959 ± 4	0	1		>157	49 ± 9		BNL-325(4)
3959 ± 4	0	1		>157	49 ± 9		74MUSGROVE+
3987	0	2	593	143	72 ±14		JENDL-2
3987 ± 4	0	2		>143	72 ±14		BNL-325(4)
3987 ± 4	0	2		>143	72 ±14		74MUSGROVE+
4022	1	1.5	R 31 ± 9	(150 ±20)	13 ± 3		JENDL-2
4022 ± 4	1		R 30	(150)	13 ± 3	WGI= 25	BNL-325(4)
4022 ± 4	1		R 30	(150)	13 ± 3	WGI= 25	74MUSGROVE+
4038	0	1.5	R 58 ±16	(150 ±20)	21 ± 4		JENDL-2
4038 ± 4	0		R 52	(150)	21 ± 4	WGO= 0.82	BNL-325(4)
4038 ± 4	0		R 52	(150)	21 ± 4	WGO= 0.82	74MUSGROVE+
4075	0	2	619	210	98 ±19		JENDL-2
4075 ± 4	0	2		>210	98 ±19		BNL-325(4)
4075 ± 4	0	2		>210	98 ±19		74MUSGROVE+
4100	0	1	598	146	44 ± 7		JENDL-2
4100 ± 4	0	1		>146	44 ± 7		BNL-325(4)
4100 ± 4	0	1		>146	44 ± 7		74MUSGROVE+
4174	0	1	627	106	34 ± 5		JENDL-2
4174 ± 4	0	1		>106	34 ± 5		BNL-325(4)
4174 ± 4	0	1		>106	34 ± 5		74MUSGROVE+
4221	0	2	637	122	64 ±13		JENDL-2
4221 ± 4	0	2		>122	64 ±13		BNL-325(4)
4221 ± 4	0	2		>122	64 ±13		74MUSGROVE+
4245	0	2	624	161	80 ±15		JENDL-2
4245 ± 4	0	2		>161	80 ±15		BNL-325(4)
4245 ± 4	0	2		>161	80 ±15		74MUSGROVE+
4269	1	1.5	R 23 ±11	(150 ±20)	10 ± 4		JENDL-2
4269 ± 4	1		R 22	(150)	10 ± 4	WGI= 17	BNL-325(4)
4269 ± 4	1		R 22	(150)	10 ± 4	WGI= 17	74MUSGROVE+
4329	0	2	1463	148	84 ±15		JENDL-2
4329 ± 4	0	2		>148	84 ±15		BNL-325(4)
4329 ± 4	0	2		>148	84 ±15		74MUSGROVE+
4337	0	1.5	R 84 ±25	(150 ±20)	27 ± 5		JENDL-2
4337 ± 4	0		R 86	(150)	27 ± 5	WGO= 1.3	BNL-325(4)
4337 ± 4	0		R 86	(150)	27 ± 5	WGO= 1.3	74MUSGROVE+
4361	1	1.5	R 23 ± 5	(150 ±20)	10 ± 2		JENDL-2
4361 ± 4	1		R 22	(150)	10 ± 2	WGI= 16.5	BNL-325(4)
4361 ± 4	1		R 22	(150)	10 ± 2	WGI= 16.5	74MUSGROVE+
4411	0	2	303	124	55 ±10		JENDL-2
4411 ± 4	0	2		>124	55 ±10		BNL-325(4)
4411 ± 4	0	2		>124	55 ±10		74MUSGROVE+
4443	0	2	1887	198	112 ±19		JENDL-2
4443 ± 4	0	2		>198	112 ±19		BNL-325(4)
4443 ± 4	0	2		>198	112 ±19		74MUSGROVE+
4464	1	1.5	R 20 ± 5	(150 ±20)	9 ± 2		JENDL-2
4464 ± 5	1		R 18	(150)	9 ± 2	WGI= 13	BNL-325(4)
4464 ± 5	1		R 18	(150)	9 ± 2	WGI= 13	74MUSGROVE+
4523	1	1.5	R 34	159	14 ± 2		JENDL-2
4523 ± 5	1		R 34		14 ± 2	WGI= 24.5	BNL-325(4)
4523 ± 5	1		R 34		14 ± 2	WGI= 24.5	74MUSGROVE+
4568	0	1.5	R 132	158	36 ± 4		JENDL-2
4568 ± 5	0		R 132		36 ± 4	WGO= 1.95	BNL-325(4)
4568 ± 5	0		R 132		36 ± 4	WGO= 1.95	74MUSGROVE+
4629	0	2	6000 ±1000	136	83 ± 8		JENDL-2
4629 ± 5	0	2	R 7500 ±1250	135	83 ± 8	WGO= 110 ±18	BNL-325(4)
4629 ± 5	0	2	R 7500 ±1250	135	83 ± 8	WGO= 110 ±18	74MUSGROVE+
4677	0	1.5	R 62 ± 9	(150 ±20)	22 ± 2		JENDL-2
4677 ± 5	0		R 62	(150)	22 ± 2	WGO= 0.91	BNL-325(4)
4677 ± 5	0		R 62	(150)	22 ± 2	WGO= 0.91	74MUSGROVE+
4689	0	1	408	170	45 ± 6		JENDL-2
4689 ± 5	0	1		>170	45 ± 6		BNL-325(4)
4689 ± 5	0	1		>170	45 ± 6		74MUSGROVE+
4699	0	1	651	120	38 ± 5		JENDL-2
4699 ± 5	0	1		>120	38 ± 5		BNL-325(4)
4699 ± 5	0	1		>120	38 ± 5		74MUSGROVE+
4723	0	1.5	R 71 ±14	(150 ±20)	24 ± 3		JENDL-2
4723 ± 5	0		R 66	(150)	24 ± 3	WGO= 0.96	BNL-325(4)
4723 ± 5	0		R 66	(150)	24 ± 3	WGO= 0.96	74MUSGROVE+
4803	0	2	653	147	75 ±14		JENDL-2
4803 ± 5	0	2		>147	75 ±14		BNL-325(4)
4803 ± 5	0	2		>147	75 ±14		74MUSGROVE+
4829	1	1.5	13 ± 2	(150 ±20)	6 ± 1		JENDL-2

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
4829 ± 5	1		R 12	(150)	6 ± 1	WGI= 8	BNL-325(4)
4829 ± 5	1		R 12	(150)	6 ± 1	WGI= 8	74MUSGROVE+
4850 ± 5	1	1.5	23 ± 5	(150 ±20)	10 ± 2		JENDL-2
4850 ± 5	1		R 22	(150)	10 ± 2	WGI= 14	BNL-325(4)
4850 ± 5	1		R 22	(150)	10 ± 2	WGI= 14	74MUSGROVE+
4865 ± 5	0	2	630	120	63 ±12		JENDL-2
4865 ± 5	0	2		>120	63 ±12		BNL-325(4)
4865 ± 5	0	2		>120	63 ±12		74MUSGROVE+
4908 ± 5	0	1.5	100 ±30	(150 ±20)	30 ± 5		JENDL-2
4908 ± 5	0		R 94	(150)	30 ± 5	WGO= 1.3	BNL-325(4)
4908 ± 5	0		R 94	(150)	30 ± 5	WGO= 1.3	74MUSGROVE+
4930 ± 5	1	1.5	44 ±10	(150 ±20)	17 ± 3		JENDL-2
4930 ± 5	1		R 40	(150)	17 ± 3	WGI= 25	BNL-325(4)
4930 ± 5	1		R 40	(150)	17 ± 3	WGI= 25	74MUSGROVE+
4943 ± 5	0	1	300	172	41 ± 7		JENDL-2
4943 ± 5	0	1		>172	41 ± 7		BNL-325(4)
4943 ± 5	0	1		>172	41 ± 7		74MUSGROVE+
4965 ± 5	0	2	316	166	68 ±13		JENDL-2
4965 ± 5	0	2		>166	68 ±13		BNL-325(4)
4965 ± 5	0	2		>166	68 ±13		74MUSGROVE+
5024 ± 5	0	1.5	356	139	50 ±10		JENDL-2
5024 ± 5	0			>139	50 ±10		BNL-325(4)
5024 ± 5	0			>139	50 ±10		74MUSGROVE+
5064 ± 5	0	1.5	80 ±61	(150 ±20)	26 ±13		JENDL-2
5064 ± 5	0		R 76	(150)	26 ±13	WGO= 1.1	BNL-325(4)
5064 ± 5	0		R 76	(150)	26 ±13	WGO= 1.1	74MUSGROVE+
5076 ± 5	0	1	673	150	46 ± 8		JENDL-2
5076 ± 5	0	1		>150	46 ± 8		BNL-325(4)
5076 ± 5	0	1		>150	46 ± 8		74MUSGROVE+
5100 ± 5	0	1.5	1143	93	43 ± 8		JENDL-2
5100 ± 5	0			> 93	43 ± 8		BNL-325(4)
5100 ± 5	0			> 93	43 ± 8		74MUSGROVE+
5113 ± 5	0	1.5	1890	90	42 ± 8		JENDL-2
5113 ± 5	0			> 90	42 ± 8		BNL-325(4)
5113 ± 5	0			> 90	42 ± 8		74MUSGROVE+
5150 ± 5	0	1.5	1100	110	50 ±11		JENDL-2
5150 ± 5	0			>110	50 ±11		BNL-325(4)
5150 ± 5	0			>110	50 ±11		74MUSGROVE+
5163 ± 5	0	1.5	978	104	47 ±12		JENDL-2
5163 ± 5	0			>104	47 ±12		BNL-325(4)
5163 ± 5	0			>104	47 ±12		74MUSGROVE+
5172 ± 5	0	1.5	1248	104	48 ±12		JENDL-2
5172 ± 5	0			>104	48 ±12		BNL-325(4)
5172 ± 5	0			>104	48 ±12		74MUSGROVE+
5272 ± 5	0	1.5	118 ±28	(150 ±20)	33 ± 4		JENDL-2
5272 ± 5	0		R 114	(150)	33 ± 4	WGO= 1.57	BNL-325(4)
5272 ± 5	0		R 114	(150)	33 ± 4	WGO= 1.57	74MUSGROVE+
5342 ± 5	0	1.5	58 ±12	(150 ±20)	21 ± 3		JENDL-2
5342 ± 5	0		R 56	(150)	21 ± 3	WGO= 0.77	BNL-325(4)
5342 ± 5	0		R 56	(150)	21 ± 3	WGO= 0.77	74MUSGROVE+
5357 ± 5	0	2	705	122	65 ±11		JENDL-2
5357 ± 5	0	2		>122	65 ±11		BNL-325(4)
5357 ± 5	0	2		>122	65 ±11		74MUSGROVE+
5414 ± 5	0	1	735	175	53 ± 7		JENDL-2
5414 ± 5	0	1		>175	53 ± 7		BNL-325(4)
5414 ± 5	0	1		>175	53 ± 7		74MUSGROVE+
5448 ± 5	0	2	660	128	67 ±13		JENDL-2
5448 ± 5	0	2		>128	67 ±13		BNL-325(4)
5448 ± 5	0	2		>128	67 ±13		74MUSGROVE+
5500 ± 6	0	2	678	114	61 ±12		JENDL-2
5500 ± 6	0	2		>114	61 ±12		BNL-325(4)
5500 ± 6	0	2		>114	61 ±12		74MUSGROVE+
5525 ± 6	1	1.5	75 ±23	(150 ±20)	25 ± 5		JENDL-2
5525 ± 6	1		R 66	(150)	25 ± 5	WGI= 35	BNL-325(4)
5525 ± 6	1		R 66	(150)	25 ± 5	WGI= 35	74MUSGROVE+
5552 ± 6	0	1.5	163 ±57	(150 ±20)	39 ± 6		JENDL-2
5552 ± 6	0		R 154	(150)	39 ± 6	WGO= 2.07	BNL-325(4)
5552 ± 6	0		R 154	(150)	39 ± 6	WGO= 2.07	74MUSGROVE+
5570 ± 6	1	1.5	62 ±16	(150 ±20)	22 ± 4		JENDL-2
5570 ± 6	1		R 58	(150)	22 ± 4	WGI= 30.5	BNL-325(4)
5570 ± 6	1		R 58	(150)	22 ± 4	WGI= 30.5	74MUSGROVE+
5593 ± 6	0	2	732	130	69 ±13		JENDL-2
5593 ± 6	0	2		>130	69 ±13		BNL-325(4)
5593 ± 6	0	2		>130	69 ±13		74MUSGROVE+
5620 ± 6	0	1	673	150	46 ± 8		JENDL-2
5620 ± 6	0	1		>150	46 ± 8		BNL-325(4)
5620 ± 6	0	1		>150	46 ± 8		74MUSGROVE+
5659 ± 6	1	1.5	55 ±15	(150 ±20)	20 ± 4		JENDL-2
5659 ± 6	1		R 50	(150)	20 ± 4	WGI= 25	BNL-325(4)
5659 ± 6	1		R 50	(150)	20 ± 4	WGI= 25	74MUSGROVE+

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)		GAMMA WIDTH (MILLI-EV)		HWS (MILLI-EV)		MISCELLANEOUS	REFERENCE
5686 ± 6	0	1.5	R 71	±22	(150 ±20)	24 ± 5			JENDL-2	
5686 ± 6	0		R 70		(150)	24 ± 5		WGO= 0.9	BNL-325(4)	
5686 ± 6	0		R 70		(150)	24 ± 5		WGO= 0.9	74MUSGROVE+	
5718 ± 6	1	1.5	R 38	±10	(150 ±20)	15 ± 3			JENDL-2	
5718 ± 6	1		R 36		(150)	15 ± 3		WGI= 18	BNL-325(4)	
5718 ± 6	1		R 36		(150)	15 ± 3		WGI= 18	74MUSGROVE+	
5756 ± 6	0	1.5	R 124	±30	(150 ±20)	34 ± 4			JENDL-2	
5756 ± 6	0		R 116		(150)	34 ± 4		WGO= 1.53	BNL-325(4)	
5756 ± 6	0		R 116		(150)	34 ± 4		WGO= 1.53	74MUSGROVE+	
5781 ± 6	0	1.5	R 80	±15	(150 ±20)	26 ± 3			JENDL-2	
5781 ± 6	0		R 78		(150)	26 ± 3		WGO= 1	BNL-325(4)	
5781 ± 6	0		R 78		(150)	26 ± 3		WGO= 1	74MUSGROVE+	
5809 ± 6	0	1.5	R 66	±17	(150 ±20)	23 ± 4			JENDL-2	
5809 ± 6	0		R 66		(150)	23 ± 4		WGO= 0.87	BNL-325(4)	
5809 ± 6	0		R 66		(150)	23 ± 4		WGO= 0.87	74MUSGROVE+	
5842 ± 6	1	1.5	R 34	±10	(150 ±20)	14 ± 3			JENDL-2	
5842 ± 6	1		R 34		(150)	14 ± 3		WGI= 16.5	BNL-325(4)	
5842 ± 6	1		R 34		(150)	14 ± 3		WGI= 16.5	74MUSGROVE+	
5871 ± 6	0	1.5	R 95	±33	(150 ±20)	29 ± 6			JENDL-2	
5871 ± 6	0		R 94		(150)	29 ± 6		WGO= 1.2	BNL-325(4)	
5871 ± 6	0		R 94		(150)	29 ± 6		WGO= 1.2	74MUSGROVE+	
5888 ± 6	0	2	800		200	100 ±19			JENDL-2	
5888 ± 6	0	2			200	100 ±19			BNL-325(4)	
5888 ± 6	0	2			200	100 ±19			74MUSGROVE+	
5905 ± 6	0	2	560		140	70 ±16			JENDL-2	
5905 ± 6	0	2			140	70 ±16			BNL-325(4)	
5905 ± 6	0	2			140	70 ±16			74MUSGROVE+	
5941 ± 6	0	1	500		150	45 ± 6			JENDL-2	
5941 ± 6	0	1			150	45 ± 6			BNL-325(4)	
5941 ± 6	0	1			150	45 ± 6			74MUSGROVE+	
5978 ± 6	0	1.5	2500		(400)	172 ±24			JENDL-2	
5978 ± 6	0					172 ±24			BNL-325(4)	
5978 ± 6	0					172 ±24			74MUSGROVE+	

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ENERGY (EV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-250 -250	0	0.5	0.653	(125 ±30)		COM= M-L-B-W WGH= 48	JENDL-2 BNL-325(4)
449 ± 1 449 449 449 420	0	0.5	0.0029± 0.0007 R 0.0029± 0.0007 P 0.0033± 0.0001 R 0.0025± 0.0013	(125 ±30)		WGH= 0.14 ± 0.03 COM= NOT ASSIGNED COM= ISOTOP UNCRTN	JENDL-2 BNL-325(4) 69ALYES+ 71VAN-DE-VYVER+ 74BERMAN+
511 ± 2 511 510.6 513 511	0	0.5	R 0.15 ± 0.03 R 0.15 ± 0.03 R 0.15 ± 0.115 R 0.15 ± 0.03	(125 ±30)		WGH= 6.6 ± 1.3	JENDL-2 BNL-325(4) 69ALYES+ 71VAN-DE-VYVER+ 74BERMAN+
1297	1	1.5	0.001	(125 ±30)		COM= ARTIFICIAL	JENDL-2
1644 ± 3 1644 1642 1646	1	0.5	R 0.084± 0.021 P 0.084± 0.021 R 0.08	(125 ±30)		WGH= 2.1 ± 0.5 COM= NOT ASSIGNED	JENDL-2 BNL-325(4) 69ALYES+ 71VAN-DE-VYVER+
1952 1952	1	0.5	0.001	(125 ±30)		COM= ARTIFICIAL COM= ISOTOP UNCRTN	JENDL-2 74BERMAN+
2156 2156 2156	0	0.5	5	(125 ±30)		COM= ARTIFICIAL	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
2319 2319 2319	1	1.5	0.001	(125 ±30)		COM= ARTIFICIAL	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
2848	1	0.5	0.015	(125 ±30)		COM= ARTIFICIAL	JENDL-2
3012	1	1.5	0.008	(125 ±30)		COM= ARTIFICIAL	JENDL-2
3145 3145 3145	1 1 1	0.5	0.001	(125 ±30)	1 1 1		JENDL-2 BNL-325(4) 76MUSGROVE+
3419 3419 3419	1 1 1	0.5	0.123	(125 ±30)	62 62 62		JENDL-2 BNL-325(4) 76MUSGROVE+
3464 3464 3468 3464	0 0 0 0	0.5	R 8 ± 2 R 8 ± 2 R 8 ± 2	98 ±20 98 ±20 98 ±20	97 97 97	WGH= 140 ±30	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 76MUSGROVE+
3553 3553 3553	1	0.5	0.031	(125 ±30)	25 25 25		JENDL-2 BNL-325(4) 76MUSGROVE+
4326 4326 4326	1	0.5	0.041	(125 ±30)	31 31 31		JENDL-2 BNL-325(4) 76MUSGROVE+
4713 4713 4708 4713	1 1 1 1	1.5	R 1.0 ± 0.3 R 1.0 ± 0.3 1.0 ± 0.3	289 ±15 263 ±15 283 ±15	416 416 416	WGI= 1300 ±400	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 76MUSGROVE+
4850 4850 4850	1 1 1	0.5	0.002	(125 ±30)	2 2 2		JENDL-2 BNL-325(4) 76MUSGROVE+
4959 4959 4959	0 0 0	0.5	R 0.4 R 1) (1/2) < 1	(200) >150 >150	133 133 133	WGH=< 10	JENDL-2 BNL-325(4) 76MUSGROVE+
5052 5052 5052	1 1 1	0.5	0.002	(125 ±30)	2 2 2		JENDL-2 BNL-325(4) 76MUSGROVE+
6139 6139 6139	0 0 0	0.5	R 24 ± 4 R 24 ± 4 R 24 ± 4	102 ±10 102 ±10 102 ±10	102 102 102	WGH= 310 ±50 WGH= 310 ±50	JENDL-2 BNL-325(4) 76MUSGROVE+
6181 6181 6181	1 1 1	1.5	0.087	(125 ±30)	109 109 109		JENDL-2 BNL-325(4) 76MUSGROVE+
6657 6657 6657	0 0 0	0.5	0.19	(125 ±30)	76 76 76		JENDL-2 BNL-325(4) 76MUSGROVE+
7060 7060 7060	1	0.5	0.066	(125 ±30)	43 43 43		JENDL-2 BNL-325(4) 76MUSGROVE+
7220 ±200 7220 7310 7220 ±200	0 0 0 0	0.5	R 140 ±20 R 140 ±20 R 140 ±20 R 140 ±20	160 ±10 160 ±10 160 ±10 160 ±10	160 160 160 160	WGH= 1600 ±200	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 76MUSGROVE+
7571 7571 7571	1	1.5	0.1	(125 ±30)	112 112 112		JENDL-2 BNL-325(4) 76MUSGROVE+
7765 7765 7765	1	0.5	0.036	(125 ±30)	28 28 28		JENDL-2 BNL-325(4) 76MUSGROVE+
8822 8822	1	1.5	0.078	(125 ±30)	96 96		JENDL-2 BNL-325(4)

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ENERGY (EV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
8822					96		76MUSGROVE+
8932 8932 8932	1	1.5	0.144	(125 ±30)	134 134 134		JENDL-2 BNL-325(4) 76MUSGROVE+
9198 9198 9198	1	0.5	0.021	(125 ±30)	18 18 18		JENDL-2 BNL-325(4) 76MUSGROVE+
9989 9989 9989	0	0.5	20 ± 5	94 ±10	94	MOH= 200 ±50	JENDL-2 BNL-325(4) 76MUSGROVE+
10210 10210 10210	1	1.5	0.108	(125 ±30)	116 116 116		JENDL-2 BNL-325(4) 76MUSGROVE+
10280 10280 10280	1	1.5	0.601	(125 ±30)	207 207 207		JENDL-2 BNL-325(4) 76MUSGROVE+
10470 10470 10470	1	1.5	0.078	(125 ±30)	96 96 96		JENDL-2 BNL-325(4) 76MUSGROVE+
11050 11050 11050	1	0.5	0.127	(125 ±30)	63 63 63		JENDL-2 BNL-325(4) 76MUSGROVE+
11180 11180 11180	1	0.5	0.059	(125 ±30)	40 40 40		JENDL-2 BNL-325(4) 76MUSGROVE+
11800 11800 11800	1	0.5	0.045	(125 ±30)	33 33 33		JENDL-2 BNL-325(4) 76MUSGROVE+
12330 12330 12330	1	0.5	0.098	(125 ±30)	29 29 29		JENDL-2 BNL-325(4) 76MUSGROVE+
12920 12920 12920	1	1.5	0.133	(125 ±30)	129 129 129		JENDL-2 BNL-325(4) 76MUSGROVE+
13180 13180 13180	1	1.5	0.068	(125 ±30)	88 88 88		JENDL-2 BNL-325(4) 76MUSGROVE+
13350 13350 13350	1	1.5	0.266	(125 ±30)	170 170 170		JENDL-2 BNL-325(4) 76MUSGROVE+
13800 13800 13800	0	0.5	30 ± 5	78.5 ± 5	78	MOH= 260 ±40	JENDL-2 BNL-325(4) 76MUSGROVE+
13890 13890 13890	1	0.5	0.021	(125 ±30)	18 18 18		JENDL-2 BNL-325(4) 76MUSGROVE+
14580 14580 14580	1	1.5	0.508	(200)	287 287 287		JENDL-2 BNL-325(4) 76MUSGROVE+
15220 15220 15220	1	0.5	0.081	(125 ±30)	49 49 49		JENDL-2 BNL-325(4) 76MUSGROVE+
15650 15650 15650	1	1.5	0.081	(125 ±30)	98 98 98		JENDL-2 BNL-325(4) 76MUSGROVE+
16080 16080 16080	1	0.5	0.018	(125 ±30)	16 16 16		JENDL-2 BNL-325(4) 76MUSGROVE+
16180 16180 16180	1	1.5	0.046	(125 ±30)	67 67 67		JENDL-2 BNL-325(4) 76MUSGROVE+
16270 16270 16270	1	0.5	0.115	(125 ±30)	60 60 60		JENDL-2 BNL-325(4) 76MUSGROVE+
17020 17020 17020	1	0.5	0.086	(125 ±30)	51 51 51		JENDL-2 BNL-325(4) 76MUSGROVE+
17110 17110 17110	1	1.5	0.348	(125 ±30)	184 184 184		JENDL-2 BNL-325(4) 76MUSGROVE+
17350 17350 17350	0	0.5	5 ± 5	198 ± 5	134	MOH= 40 ±40	JENDL-2 BNL-325(4) 76MUSGROVE+
17970 17970 17970	1	0.5	0.088	(125 ±30)	51 51 51		JENDL-2 BNL-325(4) 76MUSGROVE+
18080 18080 18080	1	1.5	0.129	(125 ±30)	127 127 127		JENDL-2 BNL-325(4) 76MUSGROVE+
18540	1	1.5	0.234	(125 ±30)	163		JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (MILLI-EV)	MW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
18540 18540					163 163		BNL-325(4) 76MUSGROVE+
18720 18720 18720	1	0.5	0.14	(125 ±30)	66 66 66		JENDL-2 BNL-325(4) 76MUSGROVE+
18940 18940 18940	1	0.5	0.14	(125 ±30)	66 66 66		JENDL-2 BNL-325(4) 76MUSGROVE+
19260 19260 19260	0	0.5	1.18	(125 ±30)	113 113 113		JENDL-2 BNL-325(4) 76MUSGROVE+
19630 19630 19630	1	1.5	1.03	(200)	335 335 335		JENDL-2 BNL-325(4) 76MUSGROVE+
19970 19970 19970	1	0.5	0.075	(125 ±30)	47 47 47		JENDL-2 BNL-325(4) 76MUSGROVE+
20440 20440 (20440)	0	0.5	30 ±10 30 ±10 30 ±10	391	386 386 386	WG= 210 ±70 COM= DOUBLET	JENDL-2 BNL-325(4) 76MUSGROVE+
20870 20870 20870	1	0.5	0.105	(125 ±30)	57 57 57		JENDL-2 BNL-325(4) 76MUSGROVE+
21400 21400 21400	1	1.5	0.108	(125 ±30)	116 116 116		JENDL-2 BNL-325(4) 76MUSGROVE+
21510 21510 21510	1	0.5	0.127	(125 ±30)	63 63 63		JENDL-2 BNL-325(4) 76MUSGROVE+
21650 21650 21650	1	1.5	0.15	(125 ±30)	136 136 136		JENDL-2 BNL-325(4) 76MUSGROVE+
22140 22140 22140	1	0.5	0.069	(125 ±30)	42 42 42		JENDL-2 BNL-325(4) 76MUSGROVE+
22320 22320 22320	1	1.5	0.55	(200)	293 293 293		JENDL-2 BNL-325(4) 76MUSGROVE+
22680 22680 22680	0	0.5	2.5	(125 ±30)	119 119 119		JENDL-2 BNL-325(4) 76MUSGROVE+
23020 23020 23020	1	0.5	0.031	(125 ±30)	25 25 25		JENDL-2 BNL-325(4) 76MUSGROVE+
23330 23330 23330	1	1.5	0.074	(125 ±30)	93 93 93		JENDL-2 BNL-325(4) 76MUSGROVE+
24210 24210 24210	1	1.5	0.057	(125 ±30)	78 78 78		JENDL-2 BNL-325(4) 76MUSGROVE+
24340 24340 24340	1	1.5	0.34	(125 ±30)	183 183 183		JENDL-2 BNL-325(4) 76MUSGROVE+
24840 24840 24840	1	1.5	0.14	(125 ±30)	132 132 132		JENDL-2 BNL-325(4) 76MUSGROVE+
25320 25320 25320	0	0.5	10	186	183 183 183	WG= 60 WG= 60	JENDL-2 BNL-325(4) 76MUSGROVE+
25900 25900 25900	1	0.5	0.053	(125 ±30)	37 37 37		JENDL-2 BNL-325(4) 76MUSGROVE+
26800 26800 26800	1	1.5	0.10	(125 ±30)	111 111 111		JENDL-2 BNL-325(4) 76MUSGROVE+
27350 27350 27350	1	1.5	1.37	(200)	349 349 349		JENDL-2 BNL-325(4) 76MUSGROVE+
27630 27630 27630	1	0.5	0.33	(125 ±30)	91 91 91		JENDL-2 BNL-325(4) 76MUSGROVE+
27850 27850 27850	1	1.5	0.58	(200)	297 297 297		JENDL-2 BNL-325(4) 76MUSGROVE+
28520 28520 28520	1	1.5	0.526	(125 ±30)	202 202 202		JENDL-2 BNL-325(4) 76MUSGROVE+
28690 28690 28690	1	0.5	0.070	(125 ±30)	45 45 45		JENDL-2 BNL-325(4) 76MUSGROVE+

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ENERGY (EV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
28980 28980 28980	1	1.5	0.87	(200)	325 325 325		JENDL-2 BNL-325(4) 76MUSGROVE+
29380 29380 29380	1	1.5	1.18	(125 #30)	226 226 226		JENDL-2 BNL-325(4) 76MUSGROVE+
29740 29740 29740	1	1.5	0.40	(200)	266 266 266		JENDL-2 BNL-325(4) 76MUSGROVE+
30410 30410 30410	1	1.5	1.08	(125 #30)	224 224 224		JENDL-2 BNL-325(4) 76MUSGROVE+
31380 31380 31380	1	1.5	1.09	(250)	407 407 407		JENDL-2 BNL-325(4) 76MUSGROVE+
32430 32430 32430	1	1.5	0.48	(200)	283 283 283		JENDL-2 BNL-325(4) 76MUSGROVE+
32980 32980 32980	1	1.5	1.78	(300)	515 515 515		JENDL-2 BNL-325(4) 76MUSGROVE+
33300 33300 33300	1	0.5	0.16	(125 #30)	70 70 70		JENDL-2 BNL-325(4) 76MUSGROVE+
33670 33670 33670	1	1.5	2.14	(200)	337 337 337		JENDL-2 BNL-325(4) 76MUSGROVE+
34020 34020 34020	1	1.5	0.24	(200)	218 218 218		JENDL-2 BNL-325(4) 76MUSGROVE+
34340 34340 34340	1	1.5	0.38	(200)	261 261 261		JENDL-2 BNL-325(4) 76MUSGROVE+
34640 34640 34640	1	1.5	0.30	(200)	241 241 241		JENDL-2 BNL-325(4) 76MUSGROVE+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-26 -26	0 0	2 2	84	(80 ±30) (82.2)		COM= M-L-B-W WGO= 20	JENDL-2 BNL-325(4)
126.9 126.9 ± 0.8 126.9	0 0	2 2	0.21 ± 0.11 R 0.26 ± 0.14 R 0.26 ± 0.14	(80 ±30)		WGO= 0.023 ± 0.012	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
420 420 ± 2 418.8 421	0 0	2 2 2	673 ±23 R 850 ±70 R 820 ±70 R 880 ±100	77 ±103 95		GT = 750 ±100 WGO= 41 ± 3 GT = 750 ±100	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+
578 577 ± 2 576 579	0 0	1 1 1	597 ±66 R 470 ±40 R 426 ±40 R 560 ±120	83 ±96 114		GT = 680 ±70 WGO= 20 ± 2 GT = 680 ±70	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+
1050 1053 ± 3 1046 1053	1 1	1.5 1.5	57 ±11 R 46 ±30 R 58) R 46 ±30	(68 ±11)		WGO= 1.4 ± 0.9 COM= NOT ASSIGNED	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+
1099 1099 ± 3 1099	1 1	1.5 1.5	40 ±32 R 40 ±32 R 40 ±32	(68 ±11)		WGO= 1.2 ± 1.0	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
1199 1199 ± 3 1199	0 0	1.5 1.5	430 ±260 R 430 ±260 R 430 ±260	(80 ±30)		WGO= 12 ± 8	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+
1349 1350 ± 3 1345 1351	0 0	2 2 2	984 ±25 R 1200 ±120 R 1232 R 1200 ±480	(80 ±30)		WGO= 32.7 ± 3.3	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+
1414	1	3	0.006	(68 ±11)		COM= ARTIFICIAL	JENDL-2
1500	1	2	13	(68 ±11)		COM= ARTIFICIAL	JENDL-2
1662	1	0	0.6	(68 ±11)		COM= ARTIFICIAL	JENDL-2
1737 1737 ± 3 1734 1740	0 0	1.5 1.5	783 ±80 R 780 ±100 R 706) R 860 ±520	(80 ±30)		WGO= 19 ± 2 COM= NOT ASSIGNED	JENDL-2 BNL-325(4) 69ALVES+ 71VAN-DE-VYVER+
1925	1	3	0.3	(68 ±11)		COM= ARTIFICIAL	JENDL-2
1928	1	1	11	(68 ±11)		COM= ARTIFICIAL	JENDL-2
2061	1	2	19	(68 ±11)		COM= ARTIFICIAL	JENDL-2
2377	0	1	2800	(80 ±30)		COM= ARTIFICIAL	JENDL-2
2422	1	3	17	(68 ±11)		COM= ARTIFICIAL	JENDL-2
2487	1	3	3.7	(68 ±11)		COM= ARTIFICIAL	JENDL-2
2670	0	2	1800	(80 ±30)		COM= ARTIFICIAL	JENDL-2
2687	1	2	42	(68 ±11)		COM= ARTIFICIAL	JENDL-2
2943	1	2	18	(68 ±11)		COM= ARTIFICIAL	JENDL-2
2982	1	3	0.6	(68 ±11)		COM= ARTIFICIAL	JENDL-2
3146 3146 ± 2 3146 ± 2	0 0 0	1 1 1	500 (1) (1) 375) (1) (1) 500)	77 (77) (77)	25 ± 4 25 ± 4 25 ± 4	WGO= (6.69)	JENDL-2 BNL-325(4) 76MUSGROVE+
3346 3346 ± 2 3346 ± 2	0 0 0	2 2 2	500 (2) (2) 375) (2) (2) 500)	57 (58) (58)	32 ± 5 32 ± 5 32 ± 5	WGO= 6.48	JENDL-2 BNL-325(4) 76MUSGROVE+
3398 3398 ± 2 3398 ± 2	1 1 1	1.5 1.5 1.5	40	59	12 ± 2 12 ± 2 12 ± 2	WGI= 52 WGI= 52	JENDL-2 BNL-325(4) 76MUSGROVE+
3498 3498 ± 2 3498 ± 2	1 1 1	1.5 1.5 1.5	13	44	5 ± 1 5 ± 1 5 ± 1	WGI= 16 WGI= 16 WGI= 16	JENDL-2 BNL-325(4) 76MUSGROVE+
3584 3584 ± 2 3584 ± 2	1 1 1	1.5 1.5 1.5	4.2	81	2 ± 1 2 ± 1 2 ± 1	WGI= 5 WGI= 5 WGI= 5	JENDL-2 BNL-325(4) 76MUSGROVE+
3905 3905 ± 2 3923 3905 ± 2	0 0 0 0	1 1 1 1	5000 ±1000 R 3750 ±750 5000 ±1000	61 ±10 63 ±10 63 ±10	23 ± 4 23 ± 4 23 ± 4	WGO= 60 ±12	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 76MUSGROVE+
4288 4288 ± 2 4288 ± 2	0 0 0	2 (2) (2)	2000 ±1000 R 2500 ±1250 2000 ±1000	59 ± 9 61 ±10 61 ±10	36 ± 5 36 ± 5 36 ± 5	WGO= 36.2 ±19.1	JENDL-2 BNL-325(4) 76MUSGROVE+
4537 4537 ± 2 4537 ± 2	1 1 1	1.5 1.5 1.5	38	64	12 ± 2 12 ± 2 12 ± 2	WGI= 32 WGI= 32	JENDL-2 BNL-325(4) 76MUSGROVE+
4581 4581 ± 2 4581 ± 2	1 1 1	1.5 1.5 1.5	30	59	10 ± 2 10 ± 2 10 ± 2	WGI= 25 WGI= 25	JENDL-2 BNL-325(4) 76MUSGROVE+
4590 4590 ± 2 4590 ± 2	1 1 1	1.5 1.5 1.5	37	70	12 ± 2 12 ± 2 12 ± 2	WGI= 30 WGI= 30	JENDL-2 BNL-325(4) 76MUSGROVE+

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
4851 4851 ± 2 4851 ± 2	1 1 1)	1.5	61	77	17 ± 3 17 ± 3 17 ± 3	WGI= 46 WGI= 46	JENDL-2 BNL-325(4) 76MUSGROVE+
4918 4918 ± 2 4918 ± 2	1 1 1)	1.5	43	85	13 ± 2 13 ± 2 13 ± 2	WGI= 32 WGI= 32	JENDL-2 BNL-325(4) 76MUSGROVE+
4977 4977 ± 2 4986 4977 ± 2	0 0 0 0 (1)	1 1	5000 ±1000 3750 ±750 5000 ±1000	79 ±14 79 ±15 79 ±15	29 ± 5 29 ± 5 29 ± 5	WGO= 53.2 ±10.6	JENDL-2 BNL-325(4) 71VAN-DE-VYVER+ 76MUSGROVE+
5059 5059 ± 2 5059 ± 2	0 0 0 (2)	2 2	500 625	73 (73) (73)	40 ± 5 40 ± 5 40 ± 5	WGO= 8.79	JENDL-2 BNL-325(4) 76MUSGROVE+
5177 5177 ± 2 5177 ± 2	1 1 1	1.5	8.74	94	4 ± 2 40 ± 2 4 ± 2	WGI= 6 WGI= 6	JENDL-2 BNL-325(4) 76MUSGROVE+
5278 5278 ± 2 5278 ± 2	1 1 1)	1.5	60	69	16 ± 3 16 ± 3 16 ± 3	WGI= 40 WGI= 40	JENDL-2 BNL-325(4) 76MUSGROVE+
5374 5374 ± 2 5374 ± 2	0 0 0)	1.5	73	79	19 ± 3 19 ± 3 19 ± 3	WGO= 1	JENDL-2 BNL-325(4) 76MUSGROVE+
5514 5514 ± 2 5514 ± 2	1 1 1	1.5	30	58	10 ± 2 10 ± 2 10 ± 2	WGI= 19 WGI= 19	JENDL-2 BNL-325(4) 76MUSGROVE+
5753 5753 ± 2 5753 ± 2	1 1 1	1.5	34	62	11 ± 2 11 ± 2 11 ± 2	WGI= 20 WGI= 20	JENDL-2 BNL-325(4) 76MUSGROVE+
5806 5806 ± 2 5806 ± 2	0 0 0 (1)	1 1	8000 ±2000 8000 ±1500 8000 ±2000	62 ±11 61 ±10 61 ±10	23 ± 4 23 ± 4 23 ± 4	WGO= 79 ±20	JENDL-2 BNL-325(4) 76MUSGROVE+
5862 5862 ± 2 5862 ± 2	0 0 0 (2)	2 2	6000 ±2000 7500 ±2500 6000 ±2000	111 ±13 110 ±20 110 ±20	68 ± 8 68 ± 8 68 ± 8	WGO= 98 ±33	JENDL-2 BNL-325(4) 76MUSGROVE+
6025 6025 ± 4 6025 ± 4	1 1 1)	1.5	51	73	15 ± 3 15 ± 3 15 ± 3	WGI= 28 WGI= 28	JENDL-2 BNL-325(4) 76MUSGROVE+
6066 6066 ± 4 6066 ± 4	1 1 1)	1.5	50	75	15 ± 3 15 ± 3 15 ± 3	WGI= 27 WGI= 27	JENDL-2 BNL-325(4) 76MUSGROVE+
6444 6444 ± 4 6444 ± 4	1 1 1)	1.5	46	71	14 ± 2 14 ± 2 14 ± 2	WGI= 23 WGI= 23	JENDL-2 BNL-325(4) 76MUSGROVE+
6652 6652 ± 4 6652 ± 4	0 0 0)	2	82	116	30 ± 4 30 ± 4 30 ± 4	WGO= 1	JENDL-2 BNL-325(4) 76MUSGROVE+
6702 6702 ± 4 6702 ± 4	1 1 1	1.5	43	66	13 ± 3 13 ± 3 13 ± 3	WGI= 20 WGI= 20	JENDL-2 BNL-325(4) 76MUSGROVE+
7017 7017 ± 4 7017 ± 4	0 0 0 (2)	2 2	14000 ±300 17500 ±3750 14000 ±3000	89 ±10 89 ±15 89 ±15	55 ± 6 55 ± 6 55 ± 6	WGO= 208.9 ±44.8	JENDL-2 BNL-325(4) 76MUSGROVE+
7112 7112 ± 4 7112 ± 4	1 1 1)	1.5	51	72	15 ± 3 15 ± 3 15 ± 3	WGI= 22 WGI= 22	JENDL-2 BNL-325(4) 76MUSGROVE+
7334 7334 ± 4 7334 ± 4	1 1 1)	1.5	71	82	19 ± 4 19 ± 4 19 ± 4	WGI= 29 WGI= 29	JENDL-2 BNL-325(4) 76MUSGROVE+
7657 7657 ± 4 7657 ± 4	0 0 0)	1.5	108 ±70 (80 ±30)	(80 ±30)	23 ± 4 23 ± 4 23 ± 4		JENDL-2 BNL-325(4) 76MUSGROVE+
7680 7680 ± 4 7680 ± 4	0 0 0)	1.5	(450 ±1000) (80 ±30)	(80 ±30)	34 ± 5 34 ± 5 34 ± 5		JENDL-2 BNL-325(4) 76MUSGROVE+
7827 7827 ± 4 7827 ± 4	1 1 1	1.5	46	72	14 ± 3 14 ± 3 14 ± 3	WGI= 17	JENDL-2 BNL-325(4) 76MUSGROVE+
8000 8000 ± 4 8000 ± 4	1 1 1	1.5	31	58	10 ± 2 10 ± 2 10 ± 2	WGI= 17 WGI= 11	JENDL-2 BNL-325(4) 76MUSGROVE+
8040 8040 ± 4 8040 ± 4	1 1	1.5	86 ±45 (68 ±11)	(68 ±11)	19 ± 4 19 ± 4 19 ± 4	WGI= 11	JENDL-2 BNL-325(4) 76MUSGROVE+
8125 8125 ± 4 8125 ± 4	1 1	1.5	28	50	9 ± 2 90 ± 2 9 ± 2	WGI= 10	JENDL-2 BNL-325(4) 76MUSGROVE+
8405 8405 ± 4 8405 ± 4	1 1	1.5	163 ±11 (68 ±11)	(68 ±11)	24 ± 4 24 ± 4 24 ± 4	WGI= 10	JENDL-2 BNL-325(4) 76MUSGROVE+
8447	1	1.5	142 ±90 (68 ±11)	(68 ±11)	23 ± 4		JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
8447 ± 4 8447 ± 4					23 ± 4 23 ± 4		BNL-325(4) 76MUSGROVE+
8522 ± 4 8522 ± 4 8522 ± 4	1 1 1	1.5	18	81	7 ± 2 70 ± 2 7 ± 2	HGI= 6 HGI= 6	JENDL-2 BNL-325(4) 76MUSGROVE+
8583 ± 4 8583 ± 4 8583 ± 4	0 0 0	1.5	211 ±250	(80 ±30)	29 ± 5 29 ± 5 29 ± 5		JENDL-2 BNL-325(4) 76MUSGROVE+
8729 ± 4 8729 ± 4 8729 ± 4	1 1 1	1.5	38	65	12 ± 3 12 ± 3 12 ± 3	HGI= 12 HGI= 12	JENDL-2 BNL-325(4) 76MUSGROVE+
8889 ± 4 8889 ± 4 8889 ± 4	0 0 0	2	1000 1250 (1000)	79 (80) (80)	46 ± 6 46 ± 6 46 ± 6	HGO= 13.3	JENDL-2 BNL-325(4) 76MUSGROVE+
9358 ± 4 9358 ± 4 9358 ± 4	0 0 0	2	1000 1250 (1000)	79 (80) (80)	46 ± 6 46 ± 6 46 ± 6	HGO= 12.9	JENDL-2 BNL-325(4) 76MUSGROVE+
9441 ± 4 9441 ± 4 9441 ± 4	1	1.5	86 ±45	(68 ±11)	19 ± 4 19 ± 4 19 ± 4		JENDL-2 BNL-325(4) 76MUSGROVE+
9546 ± 4 9546 ± 4 9546 ± 4	1	1.5	110 ±62	(68 ±11)	21 ± 4 21 ± 4 21 ± 4		JENDL-2 BNL-325(4) 76MUSGROVE+
9786 ± 4 9786 ± 4 9786 ± 4	1	1.5	37 ±10	(68 ±11)	12 ± 2 12 ± 2 12 ± 2		JENDL-2 BNL-325(4) 76MUSGROVE+
9831 ± 4 9831 ± 4 9831 ± 4	1	1.5	76 ±30	(68 ±11)	18 ± 3 18 ± 3 18 ± 3		JENDL-2 BNL-325(4) 76MUSGROVE+
9938 ± 4 9938 ± 4 9938 ± 4	1	1.5	262 ±290	(68 ±11)	27 ± 5 27 ± 5 27 ± 5		JENDL-2 BNL-325(4) 76MUSGROVE+
9963 ± 4 9963 ± 4 9963 ± 4	0 0 0	2	1000 1250 (1000)	89 (80) (80)	51 ± 8 51 ± 8 51 ± 8	HGO= 12.5	JENDL-2 BNL-325(4) 76MUSGROVE+
10110 ± 5 10110 ± 5 10110 ± 5	0 0 0	1	4000 3000 ±1500 (1) 4000 ±2000	93 94 ±20 94 ±20	34 ± 5 34 ± 5 34 ± 5	HGO= 30 ±15	JENDL-2 BNL-325(4) 76MUSGROVE+
10290 ± 5 10290 ± 5 10290 ± 5	0 0 0	2	20000 ±5000 25000 ±6250 (2) 20000 ±5000	67 ±12 68 ±15 68 ±15	42 ± 7 42 ± 7 42 ± 7	HGO= 246.5 ±61.6	JENDL-2 BNL-325(4) 76MUSGROVE+
10370 ± 5 10370 ± 5 10370 ± 5	0 0 0	2	860	(100)	56 ± 8 56 ± 8 56 ± 8		JENDL-2 BNL-325(4) 76MUSGROVE+
10450 ± 5 10450 ± 5 10450 ± 5	1	1.5	76 ±30	(68 ±11)	18 ± 3 18 ± 3 18 ± 3		JENDL-2 BNL-325(4) 76MUSGROVE+
10540 ± 5 10540 ± 5 10540 ± 5	1	1.5	32 ± 9	(68 ±11)	11 ± 2 11 ± 2 11 ± 2		JENDL-2 BNL-325(4) 76MUSGROVE+
10560 ± 5 10560 ± 5 10560 ± 5	1	1.5	42 ±16	(68 ±11)	13 ± 3 13 ± 3 13 ± 3		JENDL-2 BNL-325(4) 76MUSGROVE+
10640 ± 5 10640 ± 5 10640 ± 5	1	1.5	76 ±38	(68 ±11)	18 ± 4 18 ± 4 18 ± 4		JENDL-2 BNL-325(4) 76MUSGROVE+
10780 ± 5 10780 ± 5 10780 ± 5	1	1.5	42 ±21	(68 ±11)	13 ± 4 13 ± 4 13 ± 4		JENDL-2 BNL-325(4) 76MUSGROVE+
10960 ± 5 10960 ± 5 10960 ± 5	0 0 0	1.5	380 ±770	(80 ±30)	33 ± 6 33 ± 6 33 ± 6		JENDL-2 BNL-325(4) 76MUSGROVE+
11090 ± 5 11090 ± 5 11090 ± 5	1	1.5	125 ±74	(68 ±11)	22 ± 4 22 ± 4 22 ± 4		JENDL-2 BNL-325(4) 76MUSGROVE+
11220 ± 5 11220 ± 5 11220 ± 5	1	1.5	60 ±30	(68 ±11)	16 ± 4 16 ± 4 16 ± 4		JENDL-2 BNL-325(4) 76MUSGROVE+
11280 ± 5 11280 ± 5 11280 ± 5	0 0 0	2	1040	(100)	57 ± 8 57 ± 8 57 ± 8		JENDL-2 BNL-325(4) 76MUSGROVE+
11490 ± 5 11490 ± 5 11490 ± 5	1	1.5	68 ±26	(68 ±11)	17 ± 3 17 ± 3 17 ± 3		JENDL-2 BNL-325(4) 76MUSGROVE+
11870 ± 5 11870 ± 5 11870 ± 5	0 0 0	1.5	1520 ±10000	(80 ±30)	38 ± 6 38 ± 6 38 ± 6		JENDL-2 BNL-325(4) 76MUSGROVE+
11900 ± 5 11900 ± 5 11900 ± 5	0 0 0	2	5000 6250 (2) 5000	181 (181) (181)	109 ±20 109 ±20 109 ±20	HGO=(57.3)	JENDL-2 BNL-325(4) 76MUSGROVE+

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ENERGY (KEV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (EV)	WMS (EV)	MISCELLANEOUS	REFERENCE
-0.622	0	0.5	15.1	0.055		COM= M-L-B-W	JENDL-2
4.715 4.715	1	0.5	0.025± 0.004	(0.045± 0.010)	0.016± 0.001		JENDL-2 79MUSGROVE+
7.876 7.876	0 0	0.5	3.0 ± 1.5 3.0 ± 1.5	0.05 ± 0.005 0.05 ± 0.005	0.050± 0.004		JENDL-2 79MUSGROVE+
9.956 9.956	1	0.5	0.062± 0.025	(0.045± 0.010)	0.025± 0.003		JENDL-2 79MUSGROVE+
14.045 14.045	1	1.5	0.045± 0.014	(0.045± 0.010)	0.045± 0.005		JENDL-2 79MUSGROVE+
19.700 19.700	1	0.5	0.46 ± 1.2	(0.045± 0.010)	0.041± 0.005		JENDL-2 79MUSGROVE+
19.905 19.905	1 1	1.5	5 ± 1 5	0.046± 0.006 0.046± 0.006	0.090± 0.008		JENDL-2 79MUSGROVE+
23.445 23.445	1	1.5	0.090± 0.05	(0.045± 0.010)	0.060± 0.007		JENDL-2 79MUSGROVE+
24.300 24.300	1	1.5	0.051± 0.02	(0.045± 0.010)	0.048± 0.006		JENDL-2 79MUSGROVE+
29.250 29.250	1	1.5	0.27 ± 0.42	(0.045± 0.010)	0.077± 0.010		JENDL-2 79MUSGROVE+
30.900 31.7 ± 0.5 30.900	0 0	0.5	255 ±25 190.0 ±20.0 225 ±25	0.034± 0.020	0.034± 0.020		JENDL-2 61B1LPUCH+ 79MUSGROVE+
32.630 32.5 ± 0.5 32.630	1	0.5	0.056± 0.03 28.0 ±12.0	(0.045± 0.010)	0.025± 0.005	COM= UNCRTN	JENDL-2 61B1LPUCH+ 79MUSGROVE+
32.830 32.830	1	0.5	0.067± 0.04	(0.045± 0.010)	0.027± 0.005		JENDL-2 79MUSGROVE+
33.370 33.370	1	1.5	0.051± 0.025	(0.045± 0.010)	0.048± 0.009		JENDL-2 79MUSGROVE+
35.420 35.420	1	0.5	0.157± 0.27	(0.045± 0.010)	0.035± 0.012		JENDL-2 79MUSGROVE+
35.700 35.700	1	1.5	0.124± 0.11	(0.045± 0.010)	0.066± 0.012		JENDL-2 79MUSGROVE+
36.700 36.5 ± 1.0 36.700	1	0.5	0.157± 0.33 < 20.0	(0.045± 0.010)	0.035± 0.015	COM= UNCRTN	JENDL-2 61B1LPUCH+ 79MUSGROVE+
40.300 39.8 ± 1.0 40.300	0 0	0.5	150 ±50 100.0 ±10.0 150 ±50	0.010± 0.020	0.010± 0.020		JENDL-2 61B1LPUCH+ 79MUSGROVE+
43.780 43.780	1	1.5	0.780	(0.05)	0.094± 0.030		JENDL-2 79MUSGROVE+
49.815 49.815	1	1.5	1.56	(0.07)	0.134± 0.030		JENDL-2 79MUSGROVE+
50.475 51.0 ± 1.0 50.475	0 0	0.5	250 ±50 275.0 ±50.0 250 ±50	0.111± 0.060	0.111± 0.060		JENDL-2 61B1LPUCH+ 79MUSGROVE+
51.200 51.200	1	1.5	0.700	(0.06)	0.119± 0.040		JENDL-2 79MUSGROVE+
53.450 53.450	1	1.5	3.7	(0.07)	0.147± 0.045		JENDL-2 79MUSGROVE+
55.500 55.5 ± 1.0 55.500	0	0.5	50 ±30 50.0 ±30.0	0.145± 0.045	0.145± 0.045		JENDL-2 61B1LPUCH+ 79MUSGROVE+
58.975 58.975	1	1.5	2.4	(0.07)	0.136± 0.024		JENDL-2 79MUSGROVE+
59.225 59.5 ± 1.0 59.225	0 0	0.5	70 ±30 70.0 ±30.0 70	0.163± 0.030	0.163± 0.030		JENDL-2 61B1LPUCH+ 79MUSGROVE+
60.950 61.0 ± 1.0 60.950	0	0.5	60 ±40 60.0 ±40.0	0.089± 0.040	0.089± 0.040		JENDL-2 61B1LPUCH+ 79MUSGROVE+
61.625 61.625	1	1.5	2.5	(0.08)	0.155± 0.055		JENDL-2 79MUSGROVE+
62.950 62.5 ± 1.0 62.950	0 0	0.5	130 ±40 130.0 ±40.0 130	0.086± 0.040	0.086± 0.040		JENDL-2 61B1LPUCH+ 79MUSGROVE+
65.525 65.525	1	1.5	2.2	(0.07)	0.145± 0.030		JENDL-2 79MUSGROVE+
69.070 68.5 ± 0.5 69.070	0 0	0.5	450 ±100 450.0 ±40.0 450 ±100	0.178± 0.080	0.178± 0.080		JENDL-2 61B1LPUCH+ 79MUSGROVE+
70.0 ± 0.5			50.0 ±40.0				61B1LPUCH+
73.275 73.5 ± 0.5	0	0.5	130 ±40 130.0 ±40.0	0.126± 0.040			JENDL-2 61B1LPUCH+

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ENERGY (KEY)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (EV)	WMS (EV)	MISCELLANEOUS	REFERENCE
73.275					0.126± 0.040		79MUSGROVE+
74.00 74.000	1	1.5	2.7	(0.07)	0.146± 0.050		JENDL-2 79MUSGROVE+
78.00 78.000	1	1.5	0.69 ± 6.0	(0.045± 0.010)	0.084± 0.050		JENDL-2 79MUSGROVE+
79.90 79.9 ± 0.5 79.900	0	0.5	150 ±40 160.0 ±40.0 150	0.052± 0.04	0.052± 0.040		JENDL-2 61BILPUCH+ 79MUSGROVE+
81.80 81.0 ± 0.5 81.800	0	0.5	20 < 30.0 20	0.190± 0.09 0.190± 0.090	0.187± 0.080	COM= UNCRTN	JENDL-2 61BILPUCH+ 79MUSGROVE+
83.50 84.0 83.500	1	1.5	1.9 < 30.0	(0.07)	0.135± 0.065	COM= UNCRTN	JENDL-2 61BILPUCH+ 79MUSGROVE+
86.5			< 30.0			COM= UNCRTN	61BILPUCH+
89.40 88.0 89.400	0	0.5	20 < 30.0 20	0.28 ± 0.12 0.280± 0.120	0.280± 0.120	COM= UNCRTN	JENDL-2 61BILPUCH+ 79MUSGROVE+
91.05 91.0 91.050	1	1.5	3.3 < 30.0	(0.15)	0.296± 0.120	COM= UNCRTN	JENDL-2 61BILPUCH+ 79MUSGROVE+
91.80 91.800	1	1.5	3.4	(0.19)	0.360± 0.100		JENDL-2 79MUSGROVE+
94.0			< 30.0			COM= UNCRTN	61BILPUCH+
95.0			< 30.0			COM= UNCRTN	61BILPUCH+
96.0			< 30.0			COM= UNCRTN	61BILPUCH+
105.0 105.0 ± 1.0	0	0.5	370 ±35 370.0 ±35.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
111.5 111.5 ± 1.0	0	0.5	150 ±70 150.0 ±70.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
112.5 112.5 ± 1.0	0	0.5	160 ±80 160.0 ±80.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
116.0 116.0 ± 1.0	0	0.5	650 ±50 650.0 ±50.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
123.0 123.0 ± 1.0	0	0.5	250 ±100 250.0 ±100.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
124.0 124.0 ± 1.0	0	0.5	150 ±75 150.0 ±75.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
129.0 129.0 ± 1.0	0	0.5	500 ±175 500.0 ±175.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
135.5 135.5 ± 0.1	0	0.5	3300 ±300 3300.0 ±300.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
148.5 148.5 ± 0.1	0	0.5	800 ±200 800.0 ±200.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
155.0 155.0 ± 1.0	0	0.5	900 ±200 900.0 ±200.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
170.0 170.0 ± 2.0	0	0.5	450 ±100 450.0 ±100.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
174.0 174.0 ± 2.0	0	0.5	80 ±50 80.0 ±50.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
189.0 189.0 ± 2.0	0	0.5	800 ±400 800.0 ±400.0	(0.095± 0.060)			JENDL-2 61BILPUCH+
192.0 192.0 ± 2.0	0	0.5	2050 ±400 2050.0 ±400.0	(0.095± 0.060)			JENDL-2 61BILPUCH+

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-110.1	0	3.0	2633	102.8		COM= M-L-B-W	JENDL-2
-110.0	0	4.0	2633	102.8			JENDL-2
-37.5	0	4.0	626.0	56.5		GT = 682.5	JENDL-1.5
0.734 0.734 0.734	1 1	3.5 3.5	7.3 -5 7.3 -5 7.33 -5±4.4 -6	40 ± 5 45.0 40 ± 5		GT = 45.0001 GT = 40 ± 5	JENDL-2 JENDL-1.5 67SHWE+
72.3 72.17 72.3 72.3 72.3 ± 0.1 72.3	0 0 0 0 0	3.0 3.0 3.0	34.4 ± 1.0 36.0 31.5 ± 0.4	54 ± 9 60.0 56.5 ± 1.7	9.2 ± 0.6	GT = 96.0 GT = 88 ± 1 WGM= 15.6 ± 1.0 WGM= 1.77 ± 0.05 WGM= 15.1 ± 1.0	JENDL-2 JENDL-1.5 67SHWE+ 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
234.9						COM= UNCRTN	69MORGENSTERN+
248.2 243.8 238.7 248.2 ± 0.2	1 0 1	3.5 3.5	0.189± 0.063 0.21	(30 ±16) 60.0		GT = 60.21 COM= UNCRTN WGM= 0.006± 0.002	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+
260.4						COM= UNCRTN	69MORGENSTERN+
339.4 339.3 304.9 339.4 ± 0.2	1 0 1	3.5 3.5	0.221± 0.147 0.32	(30 ±16) 60.0		GT = 60.32 COM= UNCRTN WGM= 0.006± 0.004	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+
617.4 617.1 618 617.2 617.4 ± 0.2 617.2	0 1 1 0	3.5 3.5	29.8 ± 1.6 28.0 24.8 ± 1.4	34.5 ± 4.6 60.0 (56.5)	8.0 ± 0.4	GT = 88.0 GT = 81 WGM= 15.4 ± 1.2 WGM= 0.6 ± 0.03 WGM= 14.9 ± 0.7	JENDL-2 JENDL-1.5 67SHWE+ 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
702.5 701.9 702.4 702.5 ± 0.2 702.5	1 0 1	3.5 3.5	7.95 ± 1.1 7.4	15 ± 4 60.0	2.6 ± 0.1	GT = 67.4 WGM= 3.7 ± 0.4 WGM= 0.15 ± 0.02 WGM= 4.0 ± 0.6	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
875.5 874.8 875.0 875.5 ± 0.4 875.4	0 0 0	3.5 3.5	23.1 ± 3.0 20.0	26 ± 5 60.0	6.1 ± 0.4	GT = 80.0 WGM= 10.8 ± 1.0 WGM= 0.39 ± 0.05 WGM= 11.5 ± 1.5	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
905.3 904.2 904.7 905.3 ± 0.4 905.0	1 0 1	3.5 3.5	7.22 ± 1.8 7.6	19 ±12 60.0	2.6 ± 0.1	GT = 67.6 WGM= 3.3 ± 0.5 WGM= 0.12 ± 0.03 WGM= 3.6 ± 3.3	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
962.8 962.0 962.1 962.8 ± 0.4 962.9	0 0 0	3.5 3.5	17.4 ± 1.2 15.9	26 ± 4 60.0	5.2 ± 0.2	GT = 75.9 WGM= 7.7 ± 0.9 WGM= 0.28 ± 0.02 WGM= 8.7 ± 0.6	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1179 1179.8 1182 1178.6 1178.7 ± 0.5 1179.4	0 0 0 0	3.0 3.0 3.0	2110 ±80 2125.7 1840 ±20	51 ± 4 60.0 (56.5)	21.6 ± 1.6	GT = 2185.7 GT = 1897 WGM= 960.0 ±60.0 WGM= 26.9 ± 1.0 WGM= 924.34	JENDL-2 JENDL-1.5 67SHWE+ 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1208 1207.5 1207.5 1208.0 ± 0.6 1208.4	1 0 1	3.5 3.5	13.9 ± 2.8 12.1	23 ± 8 60.0	4.3 ± 0.1	GT = 72.1 WGM= 5.1 ± 0.9 WGM= 0.2 ± 0.04 WGM= 7.0 ± 1.4	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1266 1265.4 1265.4 1266.3 ± 0.6 1266.3	1 0 1	3.5 3.5	22.0 ± 3.5 19.4	22 ± 4 60.0	5.5 ± 0.3	GT = 79.4 WGM= 8.8 ± 0.9 WGM= 0.31 ± 0.05 WGM= 11.0 ± 1.6	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1426 1425.4 1425.4 1426.3 ± 0.7 1426.0	1 0 1	3.5 3.5	3.0 ± 0.8 3.5	11.7 ±13 60.0	1.2 ± 0.1	GT = 63.5 WGM= 1.6 ± 0.5 WGM= 0.04 ± 0.01 WGM= 1.5 ± 0.4	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1433 1431.5 1431.4 1433.0 ± 0.7 1432.8	1 0 1	3.5 3.5	5.3 ± 1.5 5.2	20 ±23 60.0	2.1 ± 0.1	GT = 65.2 WGM= 2.5 ± 0.8 WGM= 0.07 ± 0.02 WGM= 2.7 ± 0.8	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1638 1634.8	1 0	3.5 3.5	28.3 ± 4.0 27.0	30 ± 7 60.0	7.3 ± 0.6	GT = 87.0	JENDL-2 JENDL-1.5

ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	DAHMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1635.9 1637.5 ± 0.9 1636.9	1)				7.3 ± 0.4 ± 0.4	WGM= 12.5 ± 2.0 WGH= 0.35 ± 0.05 WCM= 14.2 ± 2	69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1652 1649.4 1650.3 1652.1 ± 0.9 1651.4	1 0)	3.5 3.5	17.1 ± 2.4 16.8	20 ± 5 60.0	4.6 ± 0.4 4.6 ± 0.3 ± 0.2	GT = 76.8 WGM= 6.6 ± 1.5 WGH= 0.21 ± 0.03 WCM= 8.5 ± 1.2	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1625 1624.4 1624.4 1626.4 ± 0.5 1626.0	1 0)	3.5 3.5	6.8 ± 1.7 7.3	11 ± 5 60.0	2.1 ± 0.2 2.1 ± 0.2 ± 0.1	GT = 67.3 WGM= 3.0 ± 1.0 WGH= 0.08 ± 0.02 WCM= 3.4 ± 0.9	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1917 1915.0 1914.2 1916.7 ± 0.6 1915.9	1 0)	3.5 3.5	12.3 ± 4.4 14.0	25 ± 20 60.0	4.1 ± 0.4 4.1 ± 0.4 ± 0.2	GT = 74.0 WGM= 4.8 ± 1.6 WGH= 0.14 ± 0.05 WCM= 6.1 ± 2.0	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
1971 1969.5 1969.0 1971.8 ± 0.6 1971.4	1 0)	3.5 3.5	8.9 ± 1.8 9.0	11 ± 4 60.0	2.5 ± 0.3 2.5 ± 0.3 ± 0.1	GT = 69.0 WGM= 4.0 ± 1.5 WGH= 0.1 ± 0.02 WCM= 4.4 ± 0.0	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
2116 2116.0 2114.0 2116.0 ± 0.6 2115.9	0 0 0 0	3.0 3.0 3.0	3880 ± 420 3542.9	72 ± 6 60.0	30.9 ± 2.5 72.0 ± 4.1 ± 4.1	GT = 3602.9 WGM= 1730.0 ± 150.0 WGH= 37.0 ± 4.0 WCM= 1700 ± 180	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
2152 2149.7 2150.0 2151.7 ± 0.7 2151.6	0 0 0 0	4.0 4.0 4.0	858 ± 58 915.6	61 ± 6 60.0	31.8 ± 5.8 60.5 ± 4.2 ± 4.2	GT = 975.6 WGM= 540.0 ± 50.0 WGH= 10.4 ± 0.7 WCM= 482 ± 32	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
2177 2175.2 2175.0 2176.5 ± 0.7 2176.0	1 0)	3.5 3.5	19.6 ± 1.9 20.2	27 ± 8 60.0	5.7 ± 0.6 5.7 ± 0.5 ± 0.3	GT = 80.2 WGM= 10.0 ± 2.0 WGH= 0.21 ± 0.02 WCM= 9.8 ± 0.9	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
2381 2379.5 2378.0 2381.1 ± 0.6 2380.9	0 0 0 0	3.5 3.5	88.3 ± 4.8 74.0	43 ± 9 60.0	13.2 ± 1.8 43.2 ± 8.0 ± 3.8	GT = 134.0 WGM= 36.0 ± 4.0 WGH= 0.7 ± 0.05 WCM= 34 ± 2	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
2470 2467.7 2468.0 2469.8 ± 0.8 2469.6	0 0 0 0	3.5 3.5	1024 ± 150 920.0	54 ± 8 60.0	25.6 ± 3.7 54.6 ± 6.0 ± 2.5	GT = 980.0 WGM= 520.0 ± 80.0 WGH= 10.3 ± 1.5 WCM= 512 ± 75	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 83NAKAJIMA+
2666 2663.2 2662.0 2666.0 ± 1.0 2668	0 0 0 0	3.5 3.5	72.9 ± 10 59.0	28 ± 4 60.0	10 ± 1 10 ± 1	GT = 119.0 WGM= 28.0 ± 4.0 WGH= 0.7 ± 0.1	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
2857 2854.6 2854.0 2856.6 ± 1.0 2851	0 0 0 0	3.5 3.5	396 ± 43 410.0	47 ± 3 60.0	21 ± 1 48 ± 4	GT = 470.0 WGM= 210.0 ± 25.0 WGH= 3.7 ± 0.4	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
2968 2964.0 2972	1)	3.5	20 ± 9	(30 ± 16)	6 ± 1 6 ± 1	WGM= 7.0 ± 2.0	JENDL-2 69MORGENSTERN+ 77MUSGROVE+
2998 2997.5 2993.0 2997.5 ± 1.1 3000	0 0 0 0	4.0 4.0 4.0	10220 ± 680 10667.0	36 ± 2 60.0	20 ± 1 41 ± 3	GT = 10727.0 WGM= 6160.0 ± 400.0 WGH= 105.0 ± 7.0	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
3124 3126	1)	3.5	2.1 ± 0.5	(30 ± 16)	1.0 ± 0.2 1.0 ± 0.2		JENDL-2 77MUSGROVE+
3298 3286.5 3284.0 3287.7 ± 1.3 3293	0 0 0 0	3.5 3.5	2060 ± 350 1840.0	41 ± 2 60.0	20 ± 1 41 ± 3	GT = 1900.0 WGM= 1060.0 ± 100.0 WGH= 18.0 ± 3.0	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
3425 3420.8 3420.0 3424.8 ± 1.4 3430	1 0)	3.5 3.5	20 ± 11 17.0	47 ± 64 60.0	7 ± 1 7 ± 1	GT = 77.0 WGM= 7.0 ± 2.0 WGH= 0.17 ± 0.09	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
3456	1	3.5	15 ± 6	(30 ± 16)	5 ± 1		JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	PHOTON WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3461	1	)			5 ± 1		77MUSGROVE+
3485	0	4.0	12800 ±600	20 ± 2	11 ± 1		JENDL-2
3481.8	0	4.0	12444.0	60.0		GT = 12504.0	JENDL-1.5
3479.0	0	4.0				WGM= 7440.0 ±500.0	69MORGENSTERN+
3484.6 ± 1.4	0					WGH= 122.0 ± 6.0	76HACKEN+
3488	0		(14400)	^B 22 ± 2	11 ± 1		77MUSGROVE+
3547	1	3.5	34 ±23	(30 ±16)	8 ± 1		JENDL-2
3542.0						WGM= 11.0 ± 3.0	69MORGENSTERN+
3552	1	)			8 ± 1		77MUSGROVE+
3729	0	3.5	183 ±40	108 ±16	34 ± 2		JENDL-2
3726.0	0	3.5	210.0	60.0		GT = 270.0	JENDL-1.5
3724.0	0					WGM= 100.0 ±15.0	69MORGENSTERN+
3729.1 ± 1.6	0					WGH= 1.5 ± 0.3	76HACKEN+
3734	0		(180)	^B 108 ±20	34 ± 2		77MUSGROVE+
3749	0	3.5	5140 ±500	46 ± 2	23 ± 1		JENDL-2
3748.5	0	3.5	5140.0	60.0		GT = 5200.0	JENDL-1.5
3745.0	0					WGM= 2640.0 ±200.0	69MORGENSTERN+
3749.4 ± 1.6	0					WGH= 42.0 ± 4.0	76HACKEN+
3755	0		(5140)	^B 47 ± 3	23 ± 1		77MUSGROVE+
4009	1	3.5	25 ±25	31 ±40	7 ± 1		JENDL-2
4008.9 ± 1.7	1	)				WGM= 0.2 ± 0.2	76HACKEN+
4013	1				7 ± 1		77MUSGROVE+
4054	1	3.5	7.5 ± 1.9	(30 ±16)	3.0 ± 0.5		JENDL-2
4060	1				3.0 ± 0.5		77MUSGROVE+
4275	1	3.5	58 ±16	47 ±13	13 ± 1		JENDL-2
4271.4	0	3.5	63.0	60.0		GT = 123.0	JENDL-1.5
4258.0						WGM= 29.0 ±80.0	69MORGENSTERN+
4275.2 ± 1.9	1	)				WGH= 0.44 ± 0.12	76HACKEN+
4281					13 ± 1		77MUSGROVE+
4361	0	3.5	5000 ±400	46 ± 2	23 ± 1		JENDL-2
4356.8	0	3.5	4950.0	60.0		GT = 5010.0	JENDL-1.5
4354.0	0					WGM= 2450.0 ±250.0	69MORGENSTERN+
4360.6 ± 2.0	0					WGH= 38.0 ± 3.0	76HACKEN+
4367	0		7000 ±1000	^B 46 ± 2	23 ± 1		77MUSGROVE+
4614	1	3.5	82 ±27	43 ± 9	14 ± 1		JENDL-2
4611.5	0	3.5	100.0	60.0		GT = 160.0	JENDL-1.5
4608.0						WGM= 35.0 ±10.0	69MORGENSTERN+
4613.6 ± 2.1	1	)				WGH= 0.6 ± 0.2	76HACKEN+
4620					14 ± 1		77MUSGROVE+
4650	0	3.5	3550 ±400	49 ± 2	24 ± 1		JENDL-2
4646.0	0	3.5	3510.0	60.0		GT = 3570.0	JENDL-1.5
4644.0	0					WGM= 1810.0 ±180.0	69MORGENSTERN+
4650.3 ± 2.2	0					WGH= 26.0 ± 3.0	76HACKEN+
4656	0		(3550)	^B 48 ± 3	24 ± 1		77MUSGROVE+
4729	1	3.5	103 ±35	46 ± 8	16 ± 1		JENDL-2
4729.5	0	3.5	120.0	60.0		GT = 180.0	JENDL-1.5
4725.0						WGM= 45.0 ±10.0	69MORGENSTERN+
4729.4 ± 2.2	1	)				WGH= 0.75 ± 0.25	76HACKEN+
4740	0		(102)	^B 48 ± 8	16 ± 1		77MUSGROVE+
4818	0	3.5	153 ±28	44 ± 4	17 ± 1		JENDL-2
4810.7	0	3.5	140.0	60.0		GT = 200.0	JENDL-1.5
4809.0	0					WGM= 68.0 ±13.0	69MORGENSTERN+
4817.5 ± 2.3	0					WGH= 1.1 ± 0.2	76HACKEN+
4824	0		(152)	^B 45 ± 5	17 ± 1		77MUSGROVE+
5164	1	3.5	15 ± 6	(30 ±16)	5 ± 1		JENDL-2
5154.0						WGM= 12.0 ± 6.0	69MORGENSTERN+
5172	1	)			5 ± 1		77MUSGROVE+
5185	1	3.5	130 ±15	54 ± 5	19 ± 1		JENDL-2
5177.6	0	3.5	117.0	60.0		GT = 177.0	JENDL-1.5
5175.0						WGM= 57.0 ±14.0	69MORGENSTERN+
5185.2 ± 2.5	1	)				WGH= 0.9 ± 0.1	76HACKEN+
5194	0	)	(130)	^B 53 ± 7	19 ± 1		77MUSGROVE+
5289	1	3.5	15 ± 6	(30 ±16)	5 ± 1		JENDL-2
5297	1	)			5 ± 1		77MUSGROVE+
5353	0	3.5	1:00 ±220	61 ± 4	29 ± 2		JENDL-2
5347.5	0	3.5	1:00.0	60.0		GT = 1460.0	JENDL-1.5
5343.0	0					WGM= 700.0 ±90.0	69MORGENSTERN+
5352.8 ± 2.7	0					WGH= 8.2 ± 1.5	76HACKEN+
5360	0		3000 ±500	^B 60 ± 4	29 ± 2		77MUSGROVE+
5517.4	0	3.5	220.0	60.0		GT = 280.0	JENDL-1.5
5529	0	3.5	250 ±30	37 ± 3	16 ± 1		JENDL-2
5517.4	0	3.5	230.0	60.0		GT = 290.0	JENDL-1.5
5518.0	0					WGM= 118.0 ±20.0	69MORGENSTERN+
5528.5 ± 2.8	0					WGH= 1.7 ± 0.2	76HACKEN+
5538	0		(250)	^B 37 ± 4	16 ± 1		77MUSGROVE+
5833	0	3.5	1200 ±600	52 ± 2	25 ± 1		JENDL-2
5827.3	0	3.5	1200.0	60.0		GT = 1260.0	JENDL-1.5
5833.2 ± 3.0	0					WGH= 7.9 ± 4.0	76HACKEN+
5841	0		(1200)	^B 52 ± 4	25 ± 1		77MUSGROVE+
5846	1	3.5	153 ±110	93 ±41	29 ± 2		JENDL-2
5839.5	0	3.5	160.0	60.0		GT = 220.0	JENDL-1.5
5845.5 ± 3.0	1	)				WGH= 1.0 ± 0.7	76HACKEN+
5855	0		(150)	^B 93 ±12	29 ± 2		77MUSGROVE+
5861	1	3.5	138 ±77	35 ± 6	14 ± 1		JENDL-2
5854.8	0	3.5	140.0	60.0		GT = 200.0	JENDL-1.5

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
5860.8 ± 3.1 5872	1 0	)	(138)	37 ± 6	14 ± 1	WCH= 0.9 ± 0.5	76HACKEN+ 77MUSGROVE+
5882 5891	1	3.5	120 ±260	(30 ±16)	12 ± 1 12 ± 1		JENDL-2 77MUSGROVE+
5979 5973.1 5979.9 ± 3.2 5987	0 0 0 0	3.5 3.5	572 ±100 360.0	43 ± 2 60.0	20 ± 1	GT = 440.0 WCH= 3.7 ± 0.6	JENDL-2 JENDL-1.5 76HACKEN+ 77MUSGROVE+
6138 6148	1 1	3.5	45 ±98	(30 ±16)	9 ± 1 9 ± 1		JENDL-2 77MUSGROVE+
6336 6329.6 6325.0 6336.4 ± 3.5 6347	1 0 0 1) 0)	3.5 3.5	191 ±96 100.0	41 ± 7 60.0	17 ± 2	GT = 160.0 WCH= 43.0 ±10.0 WCH= 1.2 ± 0.6	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
6463 6455.5 6448.0 6462.5 ± 3.6 6470	0 0 0 0 0	3.5 3.5	4180 ±480 4100.0	51 ± 4 60.0	25 ± 2	GT = 4160.0 WCH= 1930.0 ±200.0 WCH= 26.0 ± 3.0	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
6560 6552.5 6547.0 6559.6 ± 3.6 6570	0 0 0 0 0	3.5 3.5	1500 ±30 1750.0	52 ± 6 60.0	25 ± 3	GT = 1810.0 WCH= 850.0 ±100.0 WCH= 9.3 ± 1.8	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
6864 6855.8 6850.0 6864.4 ± 3.9 6873	0 0 0 0 0	3.5 3.5	3650 ±330 3560.0	51 ± 6 60.0	25 ± 3	GT = 3640.0 WCH= 1880.0 ±200.0 WCH= 22.0 ± 2.0	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
6991 6982.9 6976.0 6990.7 ± 4.0 7004	0 1 1) 0 0	3.5 3.5	1200 ±140 480.0	88 ± 7 60.0	41 ± 3	GT = 540.0 WCH= 240.0 ±70.0 WCH= 7.2 ± 0.8	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
6983.0 6983.0	1 1)	3.5	300.0	60.0		GT = 360.0 WCH= 150.0 ±60.0	JENDL-1.5 69MORGENSTERN+
7061 7047.2 7046.0 7061.3 ± 4.1 7075	1 0 0 1) 1)	3.5 3.5	135 ±36 120.0	32 ± 6 60.0	13 ± 2	GT = 180.0 WCH= 50.0 ±15.0 WCH= 0.8 ± 0.2	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
7100 7087.9 7082.0 7100.0 ± 4.1 7109	0 0 0 0 0)	3.5 3.5	270 ±50 260.0	60 ± 6 60.0	21 ± 2	GT = 320.0 WCH= 130.0 ±25.0 WCH= 1.6 ± 0.3	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
7137 7126.9 7122.0 7137.0 ± 4.1 7150	0 0 0 0 0	3.5 3.5	2600 ±850 3180.0	57 ± 4 60.0	28 ± 2	GT = 3240.0 WCH= 1190.0 ±130.0 WCH= 15.4 ± 5.0	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
7448 7432.0 7432.0 7448.2 ± 4.4 7460	0 0 0 0 0)	3.5 3.5	260 ±170 260.0	71 ±15 60.0	28 ± 2	GT = 320.0 WCH= 170.0 ±30.0 WCH= 1.5 ± 1.0	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
7666 7457.1 7449.0 7465.0 ± 4.4 7478	0 0 0 0 0	3.5 3.5	2000 ±1000 2400.0	60 ± 6 60.0	29 ± 3	GT = 2460.0 WCH= 1060.0 ±130.0 WCH= 11.6 ± 6.0	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
7550 7541.6 7533.0 7550.4 ± 4.5 7565	0 1 1 0 0)	3.5 3.5	280 ±50 230.0	34 ± 6 60.0	15 ± 2	GT = 290.0 WCH= 120.0 ±20.0 WCH= 1.5 ± 0.3	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
7626 7638	1 1	3.5	20 ± 9	(30 ±16)	6 ± 1 6 ± 1		JENDL-2 77MUSGROVE+
7904 7894.2 7885.0 7903.7 ± 4.9 7918	0 0 0 0 0	3.5 3.5	356 ±90 270.0	69 ± 9 60.0	29 ± 3	GT = 330.0 WCH= 160.0 ±30.0 WCH= 2.0 ± 0.5	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
8006.0						WCH= 180.0 ±70.0	69MORGENSTERN+
8035 8020.6 8015.0 8035.2 ± 4.9 8044	0 0 0 0 0	3.5 3.5	2600 ±630 2000.0	113 ±11 60.0	54 ± 5	GT = 2060.0 WCH= 820.0 ±150.0 WCH= 14.5 ± 3.5	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
8060.0	0	3.5	360.0	60.0		GT = 420.0	JENDL-1.5
8180 8165.1 8157.0 8180.1 ± 5.1	1 0 0 1)	3.5 3.5	271 ±54 220.0	47 ± 6 60.0	20 ± 2	GT = 280.0 WCH= 110.0 ±30.0 WCH= 1.5 ± 0.3	JENDL-2 JENDL-1.5 69MORGENSTERN+ 76HACKEN+

ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
8190	1	)	(271)	47 ± 6	20 ± 2		77MUSGROVE+
8363	0	3.5	457 ±130	49 ± 5	22 ± 2		JENDL-2
8360.0	1	3.5	455.0	60.0		GT = 515.0	JENDL-1.5
8343.0	1					WGM= 210.0 ±40.0	69MORGENSTERN+
8362.9 ± 5.2	0					WGH= 2.5 ± 0.7	76HACKEN+
8378	0		(457)	48 ± 6	22 ± 2		77MUSGROVE+
8672	0	3.5	5000 ±550	67 ± 6	33 ± 3		JENDL-2
8514.3	0	3.5	5000.0	60.0		GT = 5060.0	JENDL-1.5
8501.0	0					WGM= 2840.0 ±260.0	69MORGENSTERN+
8519.5 ± 5.4	0					WGH= 27.0 ± 3.0	76HACKEN+
8535	0		(5000)	67 ± 7	33 ± 3		77MUSGROVE+
8672	0	3.5	745 ±370	42 ± 5	20 ± 2		JENDL-2
8661.4	1	3.5	440.0	60.0		GT = 500.0	JENDL-1.5
8654.0	0					WGM= 220.0 ±50.0	69MORGENSTERN+
8672.3 ± 5.5	1					WGH= 4.0 ± 2.0	76HACKEN+
8690	0		(745)	42 ± 4	20 ± 2		77MUSGROVE+
8689	1	3.5	242 ±130	45 ± 7	19 ± 2		JENDL-2
8670.0	0	3.5	160.0	60.0		GT = 220.0	JENDL-1.5
8670.0	1					WGM= 80.0 ±30.0	69MORGENSTERN+
8688.9 ± 5.5	1					WGH= 1.3 ± 0.7	76HACKEN+
8708	1		(242)	44 ± 5	19 ± 2		77MUSGROVE+
8835	1	3.5	180 ±20	51 ± 7	20 ± 2		JENDL-2
8812.3	0	3.5	200.0	60.0		GT = 260.0	JENDL-1.5
8809.0	1					WGM= 90.0 ±30.0	69MORGENSTERN+
8834.9 ± 5.7	1					WGH= 0.96 ± 0.1	76HACKEN+
8848	1		(180)	51 ± 7	20 ± 2		77MUSGROVE+
8915	0	3.5	7360 ±950	54 ± 8	27 ± 3		JENDL-2
8903.6	0	3.5	7100.0	60.0		GT = 7160.0	JENDL-1.5
8890.0	0					WGM= 3600.0 ±400.0	69MORGENSTERN+
8915.0 ± 5.8	0					WGH= 39.0 ± 5.0	76HACKEN+
8928	0		(7360)	55 ± 6	27 ± 3		77MUSGROVE+
9219	1	3.5	96 ±58	81 ±43	22 ± 2		JENDL-2
9210.4	0	3.5	100.0	60.0		GT = 160.0	JENDL-1.5
9196.0	1					WGM= 90.0 ±30.0	69MORGENSTERN+
9219.3 ± 6.1	1					WGH= 0.5 ± 0.3	76HACKEN+
9235	1		(96)		22 ± 2		77MUSGROVE+
9311	1	3.5	193 ±60	38 ± 6	16 ± 2		JENDL-2
9295.7	0	3.5	220.0	60.0		GT = 280.0	JENDL-1.5
9287.0	1					WGM= 110.0 ±30.0	69MORGENSTERN+
9310.9 ± 6.1	1					WGH= 1.0 ± 0.3	76HACKEN+
9328	1		(193)	37 ± 5	16 ± 2		77MUSGROVE+
9610	1	3.5	98 ±60	22 ± 4	9 ± 1		JENDL-2
9597.3	0	3.5	100.0	60.0		GT = 160.0	JENDL-1.5
9610.1 ± 6.5	1					WGM= 90.0 ±30.0	69MORGENSTERN+
9628	1		(98)	22 ± 8	9 ± 1	WGH= 0.5 ± 0.3	76HACKEN+
9681	0	3.5	335 ±160	73 ±12	30 ± 3		JENDL-2
9662.0	0	3.5	380.0	60.0		GT = 440.0	JENDL-1.5
9655.0	1					WGM= 130.0 ±40.0	69MORGENSTERN+
9681.4 ± 6.5	1					WGH= 1.7 ± 0.8	76HACKEN+
9698	0		(334)	72 ± 8	30 ± 3		77MUSGROVE+
9770	1	3.5	119 ±80	44 ±13	16 ± 2		JENDL-2
9770.0 ± 6.6	1					WGM= 90.0 ±30.0	69MORGENSTERN+
9785	1		(119)	42 ± 6	16 ± 2	WGH= 0.6 ± 0.4	76HACKEN+
9826.5 ± 6.7	1						77MUSGROVE+
9880	0	3.5	1230 ±160	104 ±12	48 ± 5		JENDL-2
9873.5	1	3.5	1350.0	60.0		GT = 1410.0	JENDL-1.5
9856.0	1					WGM= 650.0 ±90.0	69MORGENSTERN+
9880.0 ± 6.7	0					WGH= 6.2 ± 0.8	76HACKEN+
9900	0		(2460)	99 ±10	48 ± 5		77MUSGROVE+
9992	0	3.5	4060 ±500	65 ± 6	32 ± 3		JENDL-2
9981.8	0	3.5	4000.0	60.0		GT = 4060.0	JENDL-1.5
9965.0	0					WGM= 2000.0 ±250.0	69MORGENSTERN+
9991.9 ± 6.8	0					WGH= 20.3 ± 2.5	76HACKEN+
10008	0		(4060)	64 ± 7	32 ± 3		77MUSGROVE+
10050	1	3.5	24 ±18	48 ±80	8 ± 1		JENDL-2
10050.0 ± 7.0	1					WGM= 0.12 ± 0.09	76HACKEN+
10071	1	3.5	24 ±18	48 ±80	8 ± 1		JENDL-2
10050.0	1					WGM= 0.12 ± 0.09	69MORGENSTERN+
10071.0 ± 7.0	1						76HACKEN+
10092	1		(84)	52	16 ± 2		77MUSGROVE+
10221	0	3.5	4850 ±600	61 ± 6	30 ± 3		JENDL-2
10190.0	0	3.5	4600.0	60.0		GT = 4660.0	JENDL-1.5
10190.0	0					WGM= 2400.0 ±300.0	69MORGENSTERN+
10221.0 ± 7.0	0					WGH= 24.0 ± 3.0	76HACKEN+
10235	0		(4853)	61 ± 7	30 ± 3		77MUSGROVE+
10303	1	3.5	122 ±81	30 ± 8	12 ± 2		JENDL-2
10303.0 ± 7.0	1					WGM= 0.6 ± 0.4	76HACKEN+
10322	1		(122)	31 ± 8	12 ± 2		77MUSGROVE+
10379	0	3.5	590 ±310	43 ± 7	20 ± 3		JENDL-2
10375.0	0	3.5	700.0	60.0		GT = 760.0	JENDL-1.5
10350.0	0					WGM= 280.0 ±50.0	69MORGENSTERN+
10379.0 ± 7.0	0					WGH= 2.9 ± 1.5	76HACKEN+
10396	0		(591)	43 ± 6	20 ± 3		77MUSGROVE+
10588	0	3.5	576 ±62	77 ±10	34 ± 4		JENDL-2
10560.0	0					WGM= 2.8 ± 0.3	69MORGENSTERN+
10588.0 ± 7.0	0						76HACKEN+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
10608	0		(576)	^B 78 ± 9	34 ± 4		77MUSGROVE+
10799 10710.0 10799.0± 8.0 10768	0 0 0	3.5	622 ±124 (622)	50 ± 7 ^B 49 ± 6	23 ± 3 23 ± 3	WGH= 3.0 ± 0.6	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
11059 11078	1 1	3.5	(100 ±50) (100)	39 ±13 ^F 38	14 ± 2 14 ± 2		JENDL-2 77MUSGROVE+
11121 11140	1 1	3.5	11 ± 4	(30 ±16)	4 ± 1 4 ± 1		JENDL-2 77MUSGROVE+
11171 11140.0 11171.0± 8.0 11190	0 0 0	3.5	1800 ±320 (1800)	47 ± 6 ^B 47 ± 5	23 ± 3 23 ± 3	WGH= 8.5 ± 1.5	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
11417 11380.0 11417.0± 8.0 11438	1 1 1	3.5	107 ±85 (107)	38 ±13 ^B 39 ± 9	14 ± 2 14 ± 2	WGH= 0.5 ± 0.4	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
11526 11490.0 11526.0± 8.0 11545	0 0 0	3.5	2790 ±650 (2800)	106 ±11 ^B 106 ±15	51 ± 5 51 ± 5	WGH= 13.0 ± 3.0	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
11680 11700	1 1	3.5	(100 ±50) (100)	32 ± 7 ^F 32	12 ± 2 12 ± 2		JENDL-2 77MUSGROVE+
11792 11812	1 1	3.5	(100 ±50) (100)	43 ±18 ^F 43	15 ± 2 15 ± 2		JENDL-2 77MUSGROVE+
11917 11880.0 11917.0± 9.0 11938	0 0 0	3.5	524 ±150 (524)	25 ± 4 ^B 25 ± 5	12 ± 2 12 ± 2	WGH= 2.4 ± 0.7	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
11998 11960.0 11998.0± 9.0 12015	0 0 0	3.5	723 ±220 (723)	47 ± 7 ^B 46 ± 6	22 ± 3 22 ± 3	WGH= 3.3 ± 1.0	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
12065 12085	1 1	3.5	60 ±73 (30 ±16)	10 ± 2 10 ± 2			JENDL-2 77MUSGROVE+
12152 12110.0 12152.0± 9.0 12170	0 0 0	3.5	1830 ±460 (1830)	90 ±11 ^B 90 ±10	43 ± 5 43 ± 5	WGH= 6.3 ± 2.1	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
12413 12380.0 12413.0± 9.0 12440	0 0 0	3.5	1160 ±220 (1160)	50 ± 7 ^B 49 ± 6	24 ± 3 24 ± 3	WGH= 5.2 ± 1.0	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
12688 12640.0 12688.0±10.0 12705	0 0 0	3.5	1910 ±560 (1900)	117 ±11 ^B 117 ±12	55 ± 5 55 ± 5	WGH= 8.5 ± 2.5	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
13058 13070	1 1	3.5	82 ±130 (100)	(30 ±16) ^F 30	11 ± 2 11 ± 2		JENDL-2 77MUSGROVE+
13118 13130	1 0	3.5	370 (5040)	(35) ^B 32 ± 4	16 ± 2 16 ± 2		JENDL-2 77MUSGROVE+
13134 13090.0 13134.0±10.0 13160	0 0 1	3.5	5040 ±1160 (100)	20 ± 4 ^F 26	10 ± 2 10 ± 2	WGH= 22.0 ± 5.0	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
13186 13150.0 13186.0±10.0 13215	0 0 1	3.5	690 ±230 (100)	36 ± 4 ^F 51	17 ± 2 17 ± 2	WGH= 3.0 ± 1.0	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
13290 13250.0 13290.0±10.0 13320	0 0 0	3.5	1710 ±185 (1710)	49 ± 6 ^B 50 ± 6	24 ± 3 24 ± 3	WGH= 7.4 ± 0.8	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
13406 13370.0 13406.0±11.0 13435	0 0 0	3.5	2180 ±400 (2180)	60 ± 8 ^B 60 ± 8	29 ± 4 29 ± 4	WGH= 9.4 ± 1.7	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
13497 13460.0 13497.0±11.0 13520	0 0 0	3.5	1490 ±230 (1490)	63 ± 9 ^B 62 ± 8	30 ± 4 30 ± 4	WGH= 6.4 ± 1.0	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
13716 13730	1 1	3.5	7.5 ± 3.3 (30 ±16)	3 ± 1 3 ± 1			JENDL-2 77MUSGROVE+
13820 13820.0±11.0 13850	1 1 1	3.5	165 ±95 (160)	40 ± 8 ^B 41 ± 8	16 ± 2 16 ± 2	WGH= 0.7 ± 0.4	JENDL-2 76HACKEN+ 77MUSGROVE+
14022 13970.0 14022.0±11.0 14040	1 1 1	3.5	190 ±120 (190)	39 ± 8 ^B 37 ± 7	16 ± 2 16 ± 2	WGH= 0.8 ± 0.5	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
14136	0	3.5	1810 ±550	51 ± 6	25 ± 3		JENDL-2

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
14090.0 14136.0±12.0 14165	0 0		(1800)	^a 52 ± 6	25 ± 3	WGH= 7.6 ± 2.3	69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
14217 14180.0 14217.0±12.0 14245	0 0 0	3.5	4250 ±600	75 ± 8	37 ± 4	WGH= 17.8 ± 3.3	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
14352 14310.0 14352.0±12.0 14385	0 0 0	3.5	1700 ±480	35 ± 6	17 ± 3	WGH= 7.1 ± 2.0	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
14584 14540.0 14584.0±12.0 14615	0 0 0	3.5	4000 ±600	82 ± 8	40 ± 4	WGH= 16.6 ± 2.5	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
14714 14740	1 1	3.5	7.5 ± 3.3	(30 ±16)	3 ± 1 3 ± 1		JENDL-2 77MUSGROVE+
14814 14840	1 1	3.5	1200	(50)	24 ± 3 24 ± 3		JENDL-2 77MUSGROVE+
14902 14850.0 14902.0±12.0 14925	0 0 0	3.5	5050 ±1100	104 ±13	51 ± 6	WGH= 20.7 ± 4.5	JENDL-2 69MORGENSTERN+ 76HACKEN+ 77MUSGROVE+
14870.0							69MORGENSTERN+
15155 15110.0 15155.0±13.0	0 0	3.5	1230 ±200	(50 ±20)		WGH= 5.0 ± 0.8	JENDL-2 69MORGENSTERN+ 76HACKEN+
15219 15170.0 15219.0±13.0	0 0	3.5	5920 ±1970	(50 ±20)		WGH= 24.0 ± 8.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
15665 15610.0 15665.0±13.0	1 1)	3.5	451 ±300	(30 ±16)		WGH= 1.8 ± 1.2	JENDL-2 69MORGENSTERN+ 76HACKEN+
15800 15740.0 15800.0±14.0	0 0	3.5	1810 ±380	(50 ±20)		WGH= 7.2 ± 1.5	JENDL-2 69MORGENSTERN+ 76HACKEN+
16020 16020.0±14.0	0 0	3.5	886 ±785	(50 ±20)		WGH= 3.5 ± 3.1	JENDL-2 76HACKEN+
16132 16132.0±14.0	1 1)	3.5	203 ±127	(30 ±16)		WGH= 0.8 ± 0.5	JENDL-2 76HACKEN+
16273 16210.0 16273.0±14.0	0 0	3.5	14500 ±2300	(50 ±20)		WGH= 57.0 ± 9.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
16693 16630.0 16693.0±15.0	1 1)	3.5	366 ±233	(30 ±16)		WGH= 1.6 ± 0.9	JENDL-2 69MORGENSTERN+ 76HACKEN+
16745 16690.0 16745.0±15.0	0 0	3.5	880 ±518	(50 ±20)		WGH= 3.4 ± 2.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
16872 16810.0 16872.0±15.0	0 0	3.5	1040 ±650	(50 ±20)		WGH= 4.0 ± 2.5	JENDL-2 69MORGENSTERN+ 76HACKEN+
16947 16900.0 16947.0±15.0	0 0	3.5	937 ±781	(50 ±20)		WGH= 3.6 ± 3.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
17207 17150.0 17207.0±15.0	0 0	3.5	9180 ±2100	(50 ±20)		WGH= 35.0 ± 8.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
17362 17362.0±16.0	1 1)	3.5	290 ±237	(30 ±16)		WGH= 1.1 ± 0.9	JENDL-2 76HACKEN+
17536 17470.0 17536.0±16.0	0 0	3.5	1640 ±1010	(50 ±20)		WGH= 6.2 ± 3.8	JENDL-2 69MORGENSTERN+ 76HACKEN+
17648 17580.0 17648.0±16.0	1 1)	3.5	531 ±399	(30 ±16)		WGH= 2.0 ± 1.5	JENDL-2 69MORGENSTERN+ 76HACKEN+
17712 17640.0 17712.0±16.0	0 0	3.5	2210 ±930	(50 ±20)		WGH= 8.3 ± 3.5	JENDL-2 69MORGENSTERN+ 76HACKEN+
17874 17810.0 17874.0±16.0	0 0	3.5	8020 ±2140	(50 ±20)		WGH= 30.0 ± 8.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
17973 17900.0 17973.0±16.0	0 0	3.5	1820 ±640	(50 ±20)		WGH= 6.8 ± 2.4	JENDL-2 69MORGENSTERN+ 76HACKEN+
18056 17990.0 18056.0±17.0	0 0	3.5	1990 ±540	(50 ±20)		WGH= 7.4 ± 2.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
18410	1	3.5	461 ±244	(30 ±16)			JENDL-2

ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
18350.0 18410.0±17.0	1	)				WGH= 1.7 ± 0.9	69MORGENSTERN+ 76HACKEN+
18582 18520.0 18592.0±17.0	0	3.5	16900 ±4400	(50 ±20)		WGH= 62.0 ±16.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
18721 18721.0±16.0	1 1	)	274 ±219	(30 ±16)		WGH= 1.0 ± 0.8	JENDL-2 76HACKEN+
18880 18800.0 18880.0±18.0	0	3.5	7970 ±2750	(50 ±20)		WGH= 29.0 ±10.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
18987 18960.0 18987.0±16.0	1 1	)	496 ±386	(30 ±16)		WGH= 1.8 ± 1.4	JENDL-2 69MORGENSTERN+ 76HACKEN+
19041 19041.0±18.0	0 0	3.5	5240 ±1650	(50 ±20)		WGH= 19.0 ± 6.0	JENDL-2 76HACKEN+
19480 19410.0 19480.0±19.0	0 0	3.5	3290 ±840	(50 ±20)		WGH= 11.8 ± 3.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
19649 19570.0 19649.0±19.0	0 0	3.5	2240 ±1120	(50 ±20)		WGH= 8.0 ± 4.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
19705 19640.0 19705.0±19.0	0 0	3.5	1290 ±590	(50 ±20)		WGH= 4.6 ± 2.1	JENDL-2 69MORGENSTERN+ 76HACKEN+
20070 19990.0 20070.0±19.0	0 0	3.5	2810 ±1050	(50 ±20)		WGH= 9.9 ± 3.7	JENDL-2 69MORGENSTERN+ 76HACKEN+
20227 20150.0 20227.0±20.0	0 0	3.5	17100 ±4300	(50 ±20)		WGH= 60.0 ±15.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
20265 20200.0 20265.0±20.0	0 0	3.5	1710 ±1140	(50 ±20)		WGH= 6.0 ± 4.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
20465 20390.0 20465.0±20.0	0 0	3.5	8300 ±5150	(50 ±20)		WGH= 29.0 ±16.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
21017 20930.0 21017.0±21.0	0 0	3.5	20000 ±6100	(50 ±20)		WGH= 69.0 ±21.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
21409 21330.0 21409.0±21.0	0 0	3.5	17600 ±8800	(50 ±20)		WGH= 60.0 ±30.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
21505 21420.0 21505.0±22.0	0 0	3.5	4400 ±2350	(50 ±20)		WGH= 15.0 ± 8.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
21745 21650.0 21745.0±22.0	0 0	3.5	4600 ±1150	(50 ±20)		WGH= 15.6 ± 3.9	JENDL-2 69MORGENSTERN+ 76HACKEN+
21877 21877.0±22.0	1 1	)	592 ±592	(30 ±16)		WGH= 2.0 ± 2.0	JENDL-2 76HACKEN+
22123 22030.0 22123.0±23.0	0 0	3.5	3270 ±1190	(50 ±20)		WGH= 11.0 ± 4.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
22281 22190.0 22281.0±23.0	0 0	3.5	5970 ±1480	(50 ±20)		WGH= 20.0 ± 5.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
22933 22840.0 22933.0±24.0	0 0	3.5	7870 ±3940	(50 ±20)		WGH= 26.0 ±13.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
23016 22930.0 23016.0±24.0	1 1	)	759 ±607	(30 ±16)		WGH= 2.5 ± 2.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
23172 23070.0 23172.0±24.0	0 0	3.5	30400 ±13700	(50 ±20)		WGH= 100.0 ±45.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
23269 23170.0 23269.0±24.0	0 0	3.5	9150 ±6100	(50 ±20)		WGH= 30.0 ±20.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
23514 23420.0 23514.0±25.0	0 0	3.5	10100 ±3100	(50 ±20)		WGH= 33.0 ±10.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
24285 24190.0 24285.0±26.0	1 1	)	655 ±592	(30 ±16)		WGH= 2.1 ± 1.9	JENDL-2 69MORGENSTERN+ 76HACKEN+
24666 24550.0 24666.0±27.0	0 0	3.5	28300 ±7800	(50 ±20)		WGH= 90.0 ±25.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
24826 24790.0	0	3.5	1580 ±950	(50 ±20)			JENDL-2 69MORGENSTERN+

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-eV)	GAMMA WIDTH (MILLI-eV)	NW5 (MILLI-eV)	MISCELLANEOUS	REFERENCE
24826.0±27.0	0					MGH= 5.0 ± 3.0	76HACKEN+
25509 25370.0 25509.0±28.0	0 0	3.5	11500 ±4200	(50 ±20)		MGH= 36.0 ±13.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
25705 25600.0 25705.0±28.0	0 0	3.5	4170 ±1280	(50 ±20)		MGH= 13.0 ± 4.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
26016 25890.0 26016.0±29.0	0 0	3.5	31900 ±9700	(50 ±20)		MGH= 99.0 ±30.0	JENDL-2 69MORGENSTERN+ 76HACKEN+
26230.0							69MORGENSTERN+
26460.0							69MORGENSTERN+
26520.0							69MORGENSTERN+
26970.0							69MORGENSTERN+
27090.0							69MORGENSTERN+
27110.0							69MORGENSTERN+
27220.0							69MORGENSTERN+
27280.0							69MORGENSTERN+
27730.0							69MORGENSTERN+
27630.0							69MORGENSTERN+
28370.0							69MORGENSTERN+
28480.0							69MORGENSTERN+
28620.0							69MORGENSTERN+
28850.0							69MORGENSTERN+
28980.0							69MORGENSTERN+
29050.0							69MORGENSTERN+
29520.0							69MORGENSTERN+
29940.0							69MORGENSTERN+
30030.0							69MORGENSTERN+
30120.0							69MORGENSTERN+
30250.0							69MORGENSTERN+
30360.0							69MORGENSTERN+
30700.0							69MORGENSTERN+
30870.0							69MORGENSTERN+
31080.0							69MORGENSTERN+

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ENERGY (KEV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (EV)	WMS (EV)	MISCELLANEOUS	REFERENCE
-0.064	0	0.5	0.074	0.06		COM= M-L-B-W	JENDL-2
2.5434 2.5434± 0.0007	0 0	0.5	0.56 ± 0.03 0.56 ± 0.03	(0.034± 0.029)		GNO= 0.0111± 0.0006	JENDL-2 74HACKEN+
5.64 5.64	1	0.5	0.015± 0.004	(0.029± 0.008)	0.01 ± 0.001		JENDL-2 79MUSGROVE+
6.006 6.0058± 0.0025 6.008	0 0 0	0.5	0.83 ± 0.02 0.83 ± 0.02 0.83 ± 0.02	0.019± 0.002 0.019± 0.002	0.019± 0.002	GNO= 0.0107± 0.0003	JENDL-2 74HACKEN+ 79MUSGROVE+
6.328 6.328	1	0.5	0.002± 0.001	(0.029± 0.008)	0.002± 0.001		JENDL-2 79MUSGROVE+
6.779 6.779± 0.003 6.779	1 0 1	0.5	0.114± 0.01 0.114± 0.01 0.114± 0.01	0.019± 0.002 0.019± 0.002	0.016± 0.001	GNO= 0.0014± 0.0001	JENDL-2 74HACKEN+ 79MUSGROVE+
8.393 8.393± 0.004 8.393	1 0 1	0.5	0.94 ± 0.02 0.94 ± 0.02 0.94 ± 0.02	0.037± 0.002 0.037± 0.002	0.036± 0.002	GNO= 0.0103± 0.0002	JENDL-2 74HACKEN+ 79MUSGROVE+
9.573 9.574± 0.005 9.573	0 0 0	0.5	85 ± 10 39.0 ± 2.0 85.0 ± 10.0	0.025± 0.01 0.025± 0.01	0.025± 0.01	GNO= 0.4 ± 0.02	JENDL-2 74HACKEN+ 79MUSGROVE+
10.328 10.328	1	0.5	0.005± 0.001	(0.029± 0.008)	0.004± 0.001		JENDL-2 79MUSGROVE+
11.228 11.235± 0.006 11.228	1 0 1	1.5	0.235± 0.015 0.47 ± 0.03 0.47 ± 0.03	0.023± 0.002 0.046± 0.004	0.042± 0.003	GNO= 0.0044± 0.0003	JENDL-2 74HACKEN+ 79MUSGROVE+
11.432 11.433± 0.007 11.432	0 0 0	0.5	13.5 ± 0.5 13.5 ± 0.5 13.5 ± 0.5	0.030± 0.004 0.03 ± 0.004	0.03 ± 0.004	GNO= 0.126± 0.005	JENDL-2 74HACKEN+ 79MUSGROVE+
11.473 11.473	1	0.5	0.25 ± 0.63	(0.029± 0.008)	0.026± 0.002		JENDL-2 79MUSGROVE+
11.744 11.744	1	0.5	0.009± 0.003	(0.029± 0.008)	0.007± 0.001		JENDL-2 79MUSGROVE+
12.475 12.477± 0.008 12.475	0 0 0	0.5	25 ± 5 25.0 ± 5.0 25.0 ± 5.0	0.029± 0.005 0.029± 0.006	0.029± 0.005	GNO= 0.224± 0.04	JENDL-2 74HACKEN+ 79MUSGROVE+
12.503 12.503	1	0.5	0.003± 0.001	(0.029± 0.008)	0.003± 0.001		JENDL-2 79MUSGROVE+
13.17 13.17	1	0.5	0.031± 0.013	(0.029± 0.008)	0.015± 0.002		JENDL-2 79MUSGROVE+
13.965 13.965	1	0.5	0.009± 0.003	(0.029± 0.008)	0.007± 0.001		JENDL-2 79MUSGROVE+
14.01 14.019± 0.009 14.01	1 0 1	1.5	0.295± 0.01 0.59 ± 0.02 0.59 ± 0.02	0.021± 0.002 0.044± 0.005	0.041± 0.004	GNO= 0.005± 0.0001	JENDL-2 74HACKEN+ 79MUSGROVE+
15.82 15.818	1	0.5	0.005± 0.002	(0.029± 0.008)	0.004± 0.001		JENDL-2 79MUSGROVE+
16.13 16.142± 0.011 16.134	0 0 0	0.5	4.0 ± 0.5 4.0 ± 0.5	0.015± 0.002	0.015± 0.002	GNO= 0.031± 0.004	JENDL-2 74HACKEN+ 79MUSGROVE+
16.42 16.427± 0.012 16.418	1 0 1	1.5	0.875± 0.05 1.75 ± 0.1 1.75 ± 0.1	0.023± 0.002 0.047± 0.005	0.046± 0.004	GNO= 0.0137± 0.0008	JENDL-2 74HACKEN+ 79MUSGROVE+
18.03 18.168± 0.013 18.03	0 0 0	0.5	60 ± 2 60.0 ± 2.0 60.0 ± 2.0	0.02 ± 0.008 0.02 ± 0.008	0.02 ± 0.008	GNO= 0.445± 0.015	JENDL-2 74HACKEN+ 79MUSGROVE+
18.12 18.12	1	1.5	0.041± 0.018	(0.029± 0.008)	0.034± 0.003		JENDL-2 79MUSGROVE+
18.19 18.19	1	0.5	0.024± 0.008	(0.029± 0.008)	0.013± 0.002		JENDL-2 79MUSGROVE+
18.78 18.775	1	1.5	0.025± 0.008	(0.029± 0.008)	0.027± 0.003		JENDL-2 79MUSGROVE+
20.47 20.465	1	0.5	0.018± 0.006	(0.029± 0.008)	0.011± 0.002		JENDL-2 79MUSGROVE+
21.03 21.03	1	0.5	0.041± 0.020	(0.029± 0.008)	0.017± 0.002		JENDL-2 79MUSGROVE+
21.18 21.183± 0.004 21.205	1 1 1	1.5	1.0 ± 0.25 2.0 ± 0.5 2.0 ± 0.5	0.041± 0.005 0.041± 0.005	0.079± 0.009		JENDL-2 78CAMARDA 79MUSGROVE+
21.57 21.626± 0.017 21.57 ± 0.01 21.6	0 0 0 0	0.5	500 ± 50 450.0 ± 50.0 550.0 ± 80.0 450.0 ± 50.0	0.106± 0.030 0.106± 0.03	0.106± 0.03	GNO= 3.06 ± 0.34	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
22.46 22.46	1	0.5	0.031± 0.020	(0.029± 0.008)	0.015± 0.004		JENDL-2 79MUSGROVE+
23.55 23.55	1	1.5	0.036± 0.016	(0.029± 0.008)	0.032± 0.004		JENDL-2 79MUSGROVE+
23.70	1	1.5	0.10 ± 0.11	(0.029± 0.008)			JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (EV)	MWS (EV)	MISCELLANEOUS	REFERENCE
23.695					0.045± 0.005		79MUSGROVE+
24.11 24.105	1	0.5	0.036± 0.023	(0.029± 0.008)	0.016± 0.004		JENDL-2 79MUSGROVE+
24.80 24.792± 0.021 24.795± 0.006 24.76	0 0 0 0	0.5	72.4 ± 1.2 70.0 ± 20.0 73.0 ± 10.0 70.0 ± 20.0)	0.038± 0.01	0.038± 0.01	GNO= 0.445± 0.13	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
25.26 25.26	1	1.5	0.14 ± 0.21	(0.029± 0.008)	0.048± 0.006		JENDL-2 79MUSGROVE+
26.39 26.385	1	1.5	0.30 ± 2.2	(0.034± 0.008)	0.061± 0.007		JENDL-2 79MUSGROVE+
27.22 27.22	1	0.5	0.14 ± 0.21	(0.029± 0.008)	0.024± 0.003		JENDL-2 79MUSGROVE+
27.65 27.65	1	0.5	0.076± 0.068	(0.029± 0.008)	0.021± 0.003		JENDL-2 79MUSGROVE+
28.19 28.209± 0.026 28.19 ± 0.008 28.19	0 0 0 0	0.5	55 ± 5 55.0 ± 5.0 110.0 ± 15.0 55.0 ± 5.0)	0.04 ± 0.03	0.04 ± 0.03	GNO= 0.327± 0.03	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
29.04 29.04	1	0.5	0.054± 0.050	(0.029± 0.008)	0.02 ± 0.003		JENDL-2 79MUSGROVE+
29.20 29.2 ± 0.004 29.21	1 1 1	0.5	0.8 ± 0.2 0.8 ± 0.2 0.8 ± 0.2)	0.023± 0.003	0.022± 0.003		JENDL-2 78CAMARDA 79MUSGROVE+
29.87 29.865	1	1.5	0.06 ± 0.04	(0.029± 0.008)	0.039± 0.004		JENDL-2 79MUSGROVE+
30.70 30.698± 0.029 30.698± 0.008 30.65	0 0 0 0	0.5	11.5 ± 0.03 11.5 ± 1.0 11.5 ± 2.5 11.5 ± 1.0)	0.022± 0.007	0.022± 0.007	GNO= 0.066± 0.006	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
30.81 30.81	1	1.5	0.091± 0.094	(0.029± 0.008)	0.044± 0.006		JENDL-2 79MUSGROVE+
32.42 32.42	1	1.5	0.044± 0.022	(0.029± 0.008)	0.035± 0.004		JENDL-2 79MUSGROVE+
33.48 33.475	1	1.5	0.047± 0.028	(0.029± 0.008)	0.036± 0.005		JENDL-2 79MUSGROVE+
33.65 33.65	1	1.5	0.06 ± 0.04	(0.029± 0.008)	0.039± 0.005		JENDL-2 79MUSGROVE+
33.80 33.795	1	1.5	0.11 ± 0.13	(0.029± 0.008)	0.046± 0.005		JENDL-2 79MUSGROVE+
34.575 34.575± 0.006 34.6	1 1 1	0.5	2.7 ± 0.4 2.7 ± 0.4 2.7 ± 0.4)	0.024± 0.005	0.024± 0.005		JENDL-2 78CAMARDA 79MUSGROVE+
34.95 34.95	1	0.5	0.036± 0.023	(0.029± 0.008)	0.016± 0.004		JENDL-2 79MUSGROVE+
38.10 38.1	1	0.5	0.011± 0.006	(0.029± 0.008)	0.008± 0.003		JENDL-2 79MUSGROVE+
38.175 38.247± 0.041 38.175± 0.01 38.17	0 0 0 0	0.5	76.7 ± 3.8 85.0 ± 25.0 75.0 ± 10.0 75.0 ± 10.0)	0.02 ± 0.02	0.02 ± 0.02	GNO= 0.435± 0.13	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
38.31 38.305	1	0.5	0.02 ± 0.02	(0.029± 0.008)	0.012± 0.006		JENDL-2 79MUSGROVE+
39.145 39.145± 0.007 39.133	1 1 1	1.5	0.65 ± 0.1 1.3 ± 0.2 1.3 ± 0.2)	0.023± 0.003	0.046± 0.008	0.044± 0.006	JENDL-2 78CAMARDA 79MUSGROVE+
39.65 39.65	1	1.5	0.78 ± 4.9	(0.05 ± 0.02)	0.094± 0.009		JENDL-2 79MUSGROVE+
40.11 40.108± 0.007 40.1	1 1 1	1.5	0.75 ± 0.1 1.5 ± 0.2 1.5 ± 0.2)	0.027± 0.003	0.056± 0.008	0.053± 0.006	JENDL-2 78CAMARDA 79MUSGROVE+
40.89 40.89 ± 0.007 40.9	1 1 1	1.5	0.75 ± 0.1 1.5 ± 0.2 1.5 ± 0.2)	0.027± 0.004	0.056± 0.009	0.053± 0.007	JENDL-2 78CAMARDA 79MUSGROVE+
41.495 41.495± 0.007 41.47	1 1 1	1.5	0.85 ± 0.15 1.7 ± 0.3 1.7 ± 0.3)	0.021± 0.004	0.042± 0.008	0.041± 0.007	JENDL-2 78CAMARDA 79MUSGROVE+
41.87 41.982± 0.047 41.87 ± 0.01 41.74	0 0 0 0	0.5	260 ± 5 260.0 ± 30.0 260.0 ± 30.0 260.0 ± 30.0)	0.02 ± 0.02	0.02 ± 0.02	GNO= 1.27 ± 0.15	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
41.97 41.97	1	0.5	0.024± 0.020	(0.029± 0.008)	0.013± 0.006		JENDL-2 79MUSGROVE+
42.49 42.49	1	1.5	0.31 ± 1.00	(0.029± 0.008)	0.053± 0.006		JENDL-2 79MUSGROVE+
42.62	1	1.5	1.0 ± 0.2	0.019± 0.003			JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (EV)	WMS (EV)	MISCELLANEOUS	REFERENCE
42.62 ± 0.007 42.62	1 1)		^R 2.0 ± 0.4 ^P 2.0 ± 0.4)	0.04 ± 0.006	0.038 ± 0.005		78CAMARDA 79MUSGROVE+
43.76 43.763	1	1.5	0.53 ± 2.9	(0.029 ± 0.008)	0.055 ± 0.006		JENDL-2 79MUSGROVE+
44.35 44.35	1	0.5	0.091 ± 0.117	(0.029 ± 0.008)	0.022 ± 0.005		JENDL-2 79MUSGROVE+
44.62 ± 0.008 44.62 44.61	1 1 1)	0.5	^R 2.9 ± 0.4 ^P 2.9 ± 0.4)	0.039 ± 0.006	0.038 ± 0.006		JENDL-2 78CAMARDA 79MUSGROVE+
45.14 45.14	1	1.5	0.036 ± 0.019	(0.029 ± 0.008)	0.032 ± 0.006		JENDL-2 79MUSGROVE+
45.28 45.28	1	0.5	0.18 ± 0.41	(0.029 ± 0.008)	0.025 ± 0.005		JENDL-2 79MUSGROVE+
45.56 45.56	1	0.5	0.036 ± 0.023	(0.029 ± 0.008)	0.016 ± 0.004		JENDL-2 79MUSGROVE+
46.12 46.12	1	1.5	0.25 ± 0.5	(0.034 ± 0.008)	0.06 ± 0.006		JENDL-2 79MUSGROVE+
46.55 46.55	1	1.5	0.124 ± 0.16	(0.029 ± 0.008)	0.047 ± 0.005		JENDL-2 79MUSGROVE+
46.76 46.76	1	1.5	0.083 ± 0.076	(0.029 ± 0.008)	0.043 ± 0.005		JENDL-2 79MUSGROVE+
48.51 ± 0.008 48.51 48.47	1 1 1)	1.5	^R 0.75 ± 0.15 ^P 1.5 ± 0.3)	0.04 ± 0.005	0.077 ± 0.01		JENDL-2 78CAMARDA 79MUSGROVE+
49.39 49.50 ± 0.05 49.39 ± 0.01 49.38	0 0 0 0	0.5	57.5 ± 4.5 55.0 ± 5.0 65.0 ± 10.0 ^P 65.0 ± 10.0)	0.137 ± 0.025	0.137 ± 0.025	GND= 0.247 ± 0.022	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
49.67 49.67	1	1.5	0.46 ± 9.8	(0.045 ± 0.02)	0.082 ± 0.01		JENDL-2 79MUSGROVE+
49.85 49.845	1	1.5	0.31 ± 1.0	(0.029 ± 0.008)	0.053 ± 0.008		JENDL-2 79MUSGROVE+
50.30 50.3	1	0.5	0.25 ± 1.3	(0.029 ± 0.008)	0.026 ± 0.012		JENDL-2 79MUSGROVE+
50.58 50.575	1	0.5	0.036 ± 0.051	(0.029 ± 0.008)	0.016 ± 0.01		JENDL-2 79MUSGROVE+
51.10 51.1	1	0.5	0.076 ± 0.14	(0.029 ± 0.008)	0.021 ± 0.01		JENDL-2 79MUSGROVE+
51.55 51.55	1	1.5	0.059 ± 0.050	(0.029 ± 0.008)	0.039 ± 0.008		JENDL-2 79MUSGROVE+
52.25 52.25	1	1.5	0.62 ± 24.0	(0.055 ± 0.03)	0.101 ± 0.01		JENDL-2 79MUSGROVE+
52.76 52.75	1	0.5	0.81 ± 8.1	(0.029 ± 0.008)	0.028 ± 0.006		JENDL-2 79MUSGROVE+
53.05 ± 0.01 53.05 53.075	1 1 1)	1.5	^R 1.75 ± 0.35 ^P 3.5 ± 0.7)	0.041 ± 0.005	0.08 ± 0.01		JENDL-2 78CAMARDA 79MUSGROVE+
53.15 53.198 ± 0.067 53.15 ± 0.01 53.175	1 0 1 1	0.5	15.0 ± 3.0 ^R 32.0 ± 3.0 ^P 15.0 ± 3.0)	0.037 ± 0.005	0.037 ± 0.005	GND= 0.14 ± 0.015	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
53.58 ± 0.01 53.58 53.58	1 1 1)	0.5	^R 2.2 ± 0.3 ^P 2.2 ± 0.3)	0.022 ± 0.01	0.022 ± 0.01		JENDL-2 78CAMARDA 79MUSGROVE+
53.83 53.825	1	0.5	0.024 ± 0.020	(0.029 ± 0.008)	0.013 ± 0.006		JENDL-2 79MUSGROVE+
54.20 54.2	1	0.5	0.81 ± 7.6	(0.029 ± 0.008)	0.028 ± 0.005		JENDL-2 79MUSGROVE+
54.55 54.55	1	1.5	0.30 ± 1.5	(0.034 ± 0.008)	0.061 ± 0.01		JENDL-2 79MUSGROVE+
55.13 55.272 ± 0.071 55.13 ± 0.015 55.15	0 0 0 0	0.5	210 ± 14 220.0 ± 20.0 190.0 ± 25.0 ^P 190.0 ± 25.0)	0.021 ± 0.014	0.021 ± 0.014	GND= 0.936 ± 0.085	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
55.62 55.615 ± 0.011 55.625	1 1 1)	1.5	^R 1.5 ± 0.2 ^P 3.0 ± 0.4)	0.032 ± 0.004	0.062 ± 0.008		JENDL-2 78CAMARDA 79MUSGROVE+
56.28 56.275	1	1.5	0.40 ± 2.7	(0.036 ± 0.008)	0.066 ± 0.008		JENDL-2 79MUSGROVE+
58.45 58.45	1	1.5	0.12 ± 0.18	(0.029 ± 0.008)	0.047 ± 0.008		JENDL-2 79MUSGROVE+
59.43 59.425	1	1.5	0.32 ± 3.0	(0.04 ± 0.015)	0.071 ± 0.009		JENDL-2 79MUSGROVE+
59.83 59.825	1	0.5	0.14 ± 0.25	(0.029 ± 0.008)	0.024 ± 0.005		JENDL-2 79MUSGROVE+

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ENERGY (KEV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (EV)	HW5 (EV)	MISCELLANEOUS	REFERENCE
59.85 59.85	1	0.5	0.25 ± 0.70	(0.029± 0.008)	0.026± 0.004		JENDL-2 79MUSGROVE+
60.255 60.368± 0.081 60.255± 0.011 60.08	1 0 1	1.5	80 ± 8 80.0 ± 4.0 80.0 ± 8.0	0.036± 0.004	0.072± 0.008	GND= 0.326± 0.016	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
60.60 60.5 ± 0.011 60.543	1 1 1	1.5	7 ± 1.5 14.0 ± 3.0 60.0 ± 8.0	0.051± 0.008 0.102± 0.02	0.102± 0.015		JENDL-2 78CAMARDA 79MUSGROVE+
61.48 61.475	1	1.5	0.30 ± 1.4	(0.034± 0.008)	0.081± 0.008		JENDL-2 79MUSGROVE+
61.93 61.925	1	1.5	0.83 ± 37	(0.036± 0.010)	0.069± 0.01		JENDL-2 79MUSGROVE+
62.81 62.967± 0.087 62.81 ± 0.02 62.992	0 0 0	0.5	87 ± 13 82.0 ± 4.0 120.0 ± 15.0	0.118± 0.018	0.118± 0.018	GND= 0.327± 0.016	JENDL-2 74HACKEN+ 78CAMARDA 79MUSGROVE+
66.21 66.21 ± 0.015	1 1	0.5	3.3 ± 0.5 3.3 ± 0.5	(0.029± 0.008)			JENDL-2 78CAMARDA
68.03 68.025± 0.013	1 1	0.5	5.4 ± 0.8 5.4 ± 0.8	(0.029± 0.008)			JENDL-2 78CAMARDA
69.48 69.475± 0.012	1 1	0.5	18.0 ± 3.0 18.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
74.56 74.56 ± 0.02	1 1	0.5	6.0 ± 2.5 6.0 ± 2.5	(0.029± 0.008)			JENDL-2 78CAMARDA
74.73 74.725± 0.02	1 1	0.5	3.3 ± 1.0 3.3 ± 1.0	(0.029± 0.008)			JENDL-2 78CAMARDA
75.3 75.3 ± 0.02	0 0	0.5	95.0 ± 15.0 95.0 ± 15.0	(0.034± 0.029)			JENDL-2 78CAMARDA
76.56 76.555± 0.015	1 1	0.5	18.0 ± 3.0 18.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
78.3 78.3 ± 0.02	0 0	0.5	75.0 ± 10.0 75.0 ± 10.0	(0.034± 0.029)			JENDL-2 78CAMARDA
82.1 82.1 ± 0.02	1 1	0.5	9.0 ± 1.3 9.0 ± 1.3	(0.029± 0.008)			JENDL-2 78CAMARDA
83.80 83.795± 0.025	1 1	0.5	6.0 ± 1.0 6.0 ± 1.0	(0.029± 0.008)			JENDL-2 78CAMARDA
84.58 84.575± 0.025	1 1	0.5	6.0 ± 1.0 6.0 ± 1.0	(0.029± 0.008)			JENDL-2 78CAMARDA
86.88 86.88 ± 0.03	1 1	0.5	7.0 ± 2.0 7.0 ± 2.0	(0.029± 0.008)			JENDL-2 78CAMARDA
87.85 87.85 ± 0.03	0 0	0.5	290.0 ± 35.0 290.0 ± 35.0	(0.034± 0.029)			JENDL-2 78CAMARDA
89.17 89.167± 0.03	1 1	0.5	5.0 ± 1.0 5.0 ± 1.0	(0.029± 0.008)			JENDL-2 78CAMARDA
90.18 90.18 ± 0.02	1 1	0.5	40.0 ± 5.0 40.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
93.09 93.09 ± 0.03	0 0	0.5	270.0 ± 35.0 270.0 ± 35.0	(0.034± 0.029)			JENDL-2 78CAMARDA
95.23 95.23 ± 0.02	1 1	0.5	18.0 ± 3.0 18.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
95.74 95.74 ± 0.03	0 0	0.5	280.0 ± 35.0 280.0 ± 35.0	(0.034± 0.029)			JENDL-2 78CAMARDA
97.50 97.495± 0.02	1 1	0.5	12.0 ± 3.0 12.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
98.4 98.4 ± 0.02	0 0	0.5	33.0 ± 5.0 33.0 ± 5.0	(0.034± 0.029)			JENDL-2 78CAMARDA
99.69 99.685± 0.025	1 1	0.5	9.0 ± 1.5 9.0 ± 1.5	(0.029± 0.008)			JENDL-2 78CAMARDA
105.44 105.44 ± 0.02	1 1	0.5	8.0 ± 1.5 8.0 ± 1.5	(0.029± 0.008)			JENDL-2 78CAMARDA
106.46 106.46 ± 0.02	1 1	0.5	9.0 ± 1.5 9.0 ± 1.5	(0.029± 0.008)			JENDL-2 78CAMARDA
107.43 107.43 ± 0.02	1 1	0.5	30.0 ± 4.0 30.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
108.1 108.1 ± 0.02	0 0	0.5	28.0 ± 5.0 28.0 ± 5.0	(0.034± 0.029)			JENDL-2 78CAMARDA
114.23 114.23 ± 0.03	1 1	0.5	6.0 ± 1.5 6.0 ± 1.5	(0.029± 0.008)			JENDL-2 78CAMARDA
117.0 117.0 ± 0.02	1 1	0.5	70.0 ± 9.0 70.0 ± 9.0	(0.029± 0.008)			JENDL-2 78CAMARDA
117.53 117.53 ± 0.03	0 0	0.5	75.0 ± 15.0 75.0 ± 15.0	(0.034± 0.029)			JENDL-2 78CAMARDA

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ENERGY (KEV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (EV)	HW5 (EV)	MISCELLANEOUS	REFERENCE
118.08 118.08 ± 0.02	1 1	0.5	50.0 ± 8.0 A 50.0 ± 8.0	(0.029± 0.008)			JENDL-2 78CAMARDA
120.52 120.52 ± 0.03	1 1	0.5	20.0 ± 4.0 A 20.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
120.89 120.89 ± 0.03	0 0	0.5	170.0 ±20.0 170.0 ±20.0	(0.034± 0.029)			JENDL-2 78CAMARDA
124.79 124.79 ± 0.02	1 1	0.5	15.0 ± 2.0 A 15.0 ± 2.0	(0.029± 0.008)			JENDL-2 78CAMARDA
126.95 126.95 ± 0.03	1 1)	0.5	6.0 ± 1.5 A 6.0 ± 1.5	(0.029± 0.008)			JENDL-2 78CAMARDA
128.96 128.96 ± 0.03	0 0	0.5	265.0 ±30.0 265.0 ±30.0	(0.034± 0.029)			JENDL-2 78CAMARDA
131.16 131.16 ± 0.02	1 1	0.5	22.0 ± 3.0 A 22.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
133.32 133.32 ± 0.02	1 1	0.5	21.0 ± 3.0 A 21.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
136.16 136.16 ± 0.03	0 0	0.5	195.0 ±25.0 195.0 ±25.0	(0.034± 0.029)			JENDL-2 78CAMARDA
137.46 137.46 ± 0.03	0 0	0.5	150.0 ±25.0 150.0 ±25.0	(0.034± 0.029)			JENDL-2 78CAMARDA
143.77 143.77 ± 0.04	0 0	0.5	380.0 ±35.0 380.0 ±35.0	(0.034± 0.029)			JENDL-2 78CAMARDA
147.5 147.5 ± 0.04	1 1	0.5	5.0 ± 2.5 A 5.0 ± 2.5	(0.029± 0.008)			JENDL-2 78CAMARDA
148.68 148.68 ± 0.03	1 1)	0.5	13.0 ± 2.5 A 13.0 ± 2.5	(0.029± 0.008)			JENDL-2 78CAMARDA
150.48 150.48 ± 0.04	0 0	0.5	220.0 ±30.0 220.0 ±30.0	(0.034± 0.029)			JENDL-2 78CAMARDA
152.64 152.64 ± 0.03	1 1	0.5	18.0 ± 3.0 A 18.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
153.12 153.12 ± 0.03	1 1	0.5	14.0 ± 3.0 A 14.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
157.35 157.35 ± 0.03	1 1	0.5	14.0 ± 3.0 A 14.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
158.34 158.34 ± 0.03	0 0	0.5	40.0 ± 5.0 40.0 ± 5.0	(0.034± 0.029)			JENDL-2 78CAMARDA
163.75 163.75 ± 0.03	1 1	0.5	30.0 ± 4.0 A 30.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
166.42 166.42 ± 0.04	1 1	0.5	140.0 ±30.0 A 140.0 ±30.0	(0.029± 0.008)			JENDL-2 78CAMARDA
166.96 166.96 ± 0.04	0 0	0.5	200.0 ±30.0 200.0 ±30.0	(0.034± 0.029)			JENDL-2 78CAMARDA
168.76 168.76 ± 0.04	1 1	0.5	25.0 ± 7.0 A 25.0 ± 7.0	(0.029± 0.008)			JENDL-2 78CAMARDA
170.4 170.4 ± 0.05	0 0	0.5	800.0 ±100.0 800.0 ±100.0	(0.034± 0.029)			JENDL-2 78CAMARDA
171.08 171.08 ± 0.04	1 1	0.5	30.0 ± 7.0 A 30.0 ± 7.0	(0.029± 0.008)			JENDL-2 78CAMARDA
172.23 172.23 ± 0.04	0 0	0.5	25.0 ± 4.0 25.0 ± 4.0	(0.034± 0.029)			JENDL-2 78CAMARDA
173.95 173.95 ± 0.05	1 1	0.5	15.0 ± 4.0 A 15.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
175.25 175.25 ± 0.04	0 0	0.5	600.0 ±60.0 600.0 ±60.0	(0.034± 0.029)			JENDL-2 78CAMARDA
177.1 177.1 ± 0.04	1 1	0.5	30.0 ± 4.0 A 30.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
177.65 177.65 ± 0.04	1 1	0.5	35.0 ± 4.0 A 35.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
179.92 179.92 ± 0.06	0 0	0.5	230.0 ±40.0 230.0 ±40.0	(0.034± 0.029)			JENDL-2 78CAMARDA
184.97 184.97 ± 0.03	0 0	0.5	120.0 ±20.0 120.0 ±20.0	(0.034± 0.029)			JENDL-2 78CAMARDA
185.84 185.84 ± 0.03	0 0	0.5	80.0 ±15.0 80.0 ±15.0	(0.034± 0.029)			JENDL-2 78CAMARDA
187.94 187.94 ± 0.04	1 1	0.5	15.0 ± 3.0 A 15.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
189.49 189.49 ± 0.04	1 1	0.5	15.0 ± 3.0 A 15.0 ± 3.0	(0.029± 0.008)			JENDL-2 78CAMARDA
192.03 192.03 ± 0.04	1 1	0.5	50.0 ± 7.0 A 50.0 ± 7.0	(0.029± 0.008)			JENDL-2 78CAMARDA
193.19	1	0.5	175.0 ±25.0	(0.029± 0.008)			JENDL-2

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ENERGY (KEV)	L	J	NEUTRON WIDTH (EV)	GAMMA WIDTH (EV)	HWS (EV)	MISCELLANEOUS	REFERENCE
193.19 ± 0.04	1		^R 175.0 ± 25.0				78CAMARDA
194.17 194.17 ± 0.04	0 0	0.5	485.0 ± 55.0 485.0 ± 55.0	(0.034± 0.029)			JENDL-2 78CAMARDA
197.32 197.32 ± 0.03	0 0	0.5	65.0 ± 15.0 65.0 ± 15.0	(0.034± 0.029)			JENDL-2 78CAMARDA
198.74 198.74 ± 0.04	1 1	0.5	20.0 ± 4.0 ^R 20.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
199.92 199.92 ± 0.05	1 1	0.5	18.0 ± 5.0 ^R 18.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
201.04 201.04 ± 0.04	1 1	0.5	55.0 ± 8.0 ^R 55.0 ± 8.0	(0.029± 0.008)			JENDL-2 78CAMARDA
201.63 201.63 ± 0.03	0 0	0.5	500.0 ± 70.0 500.0 ± 70.0	(0.034± 0.029)			JENDL-2 78CAMARDA
203.14 203.14 ± 0.04	1 1)	0.5	15.0 ± 5.0 ^R 15.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
203.78 203.78 ± 0.04	1 1	0.5	40.0 ± 5.0 ^R 40.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
205.69 205.69 ± 0.04	0 0	0.5	22.0 ± 5.0 22.0 ± 5.0	(0.034± 0.029)			JENDL-2 78CAMARDA
206.57 206.57 ± 0.04	1 1	0.5	110.0 ± 15.0 ^R 110.0 ± 15.0	(0.029± 0.008)			JENDL-2 78CAMARDA
207.9 207.9 ± 0.04	0 0	0.5	42.0 ± 8.0 42.0 ± 8.0	(0.034± 0.029)			JENDL-2 78CAMARDA
208.78 208.78 ± 0.04	1 1	0.5	250.0 ± 35.0 ^R 250.0 ± 35.0	(0.029± 0.008)			JENDL-2 78CAMARDA
210.16 210.16 ± 0.05	1 1	0.5	22.0 ± 5.0 ^R 22.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
210.59 210.59 ± 0.05	1 1	0.5	38.0 ± 6.0 ^R 38.0 ± 6.0	(0.029± 0.008)			JENDL-2 78CAMARDA
213.98 213.98 ± 0.09	0	0.5	800.0 ± 200.0 800.0 ± 200.0	(0.034± 0.029)		COM= MULTIPLT	JENDL-2 78CAMARDA
215.49 215.49 ± 0.04	0 0	0.5	95.0 ± 15.0 95.0 ± 15.0	(0.034± 0.029)			JENDL-2 78CAMARDA
216.1 216.1 ± 0.05	1 1	0.5	20.0 ± 7.0 ^R 20.0 ± 7.0	(0.029± 0.008)			JENDL-2 78CAMARDA
216.82 216.82 ± 0.05	1 1	0.5	35.0 ± 5.0 ^R 35.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
218.04 218.04 ± 0.05	1 1	0.5	13.0 ± 4.0 ^R 13.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
219.05 219.05 ± 0.04	0 0	0.5	400.0 ± 60.0 400.0 ± 60.0	(0.034± 0.029)			JENDL-2 78CAMARDA
220.1 220.1 ± 0.05	1 1	0.5	35.0 ± 5.0 ^R 35.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
221.98 221.98 ± 0.05	1 1	0.5	35.0 ± 5.0 ^R 35.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
224.45 224.45 ± 0.04	0 0	0.5	480.0 ± 60.0 480.0 ± 60.0	(0.034± 0.029)			JENDL-2 78CAMARDA
225.13 225.13 ± 0.05	1 1	0.5	17.0 ± 4.0 ^R 17.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
226.11 226.11 ± 0.05	1 1	0.5	20.0 ± 5.0 ^R 20.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
227.14 227.14 ± 0.05	1 1	0.5	240.0 ± 30.0 ^R 240.0 ± 30.0	(0.029± 0.008)			JENDL-2 78CAMARDA
228.55 228.55 ± 0.05	0 0	0.5	40.0 ± 8.0 40.0 ± 8.0	(0.034± 0.029)			JENDL-2 78CAMARDA
231.68 231.68 ± 0.05	1 1)	0.5	15.0 ± 5.0 ^R 15.0 ± 5.0	(0.029± 0.008)			JENDL-2 78CAMARDA
232.15 232.15 ± 0.05	1 1	0.5	47.0 ± 10.0 ^R 47.0 ± 10.0	(0.029± 0.008)			JENDL-2 78CAMARDA
232.5 232.5 ± 0.05	1 1	0.5	40.0 ± 7.0 ^R 40.0 ± 7.0	(0.029± 0.008)			JENDL-2 78CAMARDA
233.19 233.19 ± 0.05	1 1	0.5	30.0 ± 7.0 ^R 30.0 ± 7.0	(0.029± 0.008)			JENDL-2 78CAMARDA
234.86 234.86 ± 0.05	1 1	0.5	170.0 ± 25.0 ^R 170.0 ± 25.0	(0.029± 0.008)			JENDL-2 78CAMARDA
235.49 235.49 ± 0.05	0 0	0.5	500.0 ± 70.0 500.0 ± 70.0	(0.034± 0.029)			JENDL-2 78CAMARDA
236.97 236.97 ± 0.05	1 1	0.5	20.0 ± 4.0 ^R 20.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA
238.65 238.65 ± 0.05	1 1	0.5	25.0 ± 4.0 ^R 25.0 ± 4.0	(0.029± 0.008)			JENDL-2 78CAMARDA

A.17 Cerium-142

ENERGY (KEV)	NEUTRON WIDTH (EV)	G*(R N-WIDTH) (EV)	GAMMA WIDTH (EV)	MISCELLANEOUS	REFERENCE
-0.4985 -0.4985	7.5	0.335	(0.1) (0.1)		JENDL-2 BNL-325(4)
1.29 1.29 ± 0.08	50.3 ± 2.2 R 50.3 ± 2.2	1.40 ± 0.06 1.40 ± 0.06	(0.1) (0.1)		JENDL-2 BNL-325(4)
1.64 1.64 ± 0.24	5.6 R 5.6)	(0.14) (0.14)	(0.1)		JENDL-2 BNL-325(4)
2.74 2.74 ± 0.25	16.8 R 16.8)	(0.32) (0.32)	(0.1)		JENDL-2 BNL-325(4)
4.38 4.38 ± 0.50	(36)	(0.55)	(0.1)	COM= GN:AVERAGE	JENDL-2 BNL-325(4)
26 26	0.65 R 0.65)	(0.00) (0.00)	(0.1)		JENDL-2 BNL-325(4)

A.18 Cerium-144

1

No resolved resonance parameters are given.

A.19 Praseodymium-141

ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-32 -1000	0	3.0	303	(84)		GT = 387 COM= M-L-B-W COM= DUMMY EN	JENDL-2 69MUGHABGHAB+
85.24 85.24 85.24 ± 0.1 84.8 85	0 0 0 0	2.0 2.0 2.0	8.09 ± 0.42 8.28	86 ± 6 83.0 86 ± 6		GT = 91.28 WGO= 0.72 ± 0.05 WGM= 4.0 ± 1.0 COM= J.D PHYS	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
112.3 112.4 112.33 ± 0.1 112.0 112	1 0 0	2.0 2.0 2.0	0.394 ± 0.065 0.468	(84 ± 24) 80.0		GT = 80.47 WGO= 0.031 ± 0.005 COM= J.D PHYS	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
218.7 218.7 218.65 ± 0.15 215.6 219	0 0 0 0	3.0 3.0 3 3.0	1110 ± 30 1080.0	(84 ± 24) 71.0		GT = 1151.0 WGO= 90.0 ± 10.0 WGM= 830.0 ± 70.0 COM= J.D PHYS	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
235.2 235.2 235.2 ± 1.5 231.7 235	0 0 0 0	3.0 3.0 2 3.0	862 ± 5 874.286	(84 ± 24) 93.0		GT = 967.29 WGO= 66.0 ± 8.0 WGM= 500.0 ± 55.0 COM= J.D PHYS	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
359.7 359.5 359.7 ± 0.2 353.6 360	0 0 0 0	3.0 3.0 3 2.0	1216 ± 15 1217.14	(84 ± 24) 60.0		GT = 1277.14 WGO= 74.0 ± 6.0 WGM= 720.0 ± 70.0 COM= J.D PHYS	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
397.8 397.9 397.9 ± 0.2 390.7 398	0 0 0 0	3.0 3.0 3 3.0	49.8 ± 0.3 48.86	82 ± 25 82.0 82 ± 25		GT = 148.6 WGO= 3.0 ± 1.0 WGM= 28.0 ± 3.0 COM= J.D PHYS	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
415.1 415.0 415.1 ± 0.2 411.0	1 0 0	2.5 2.5	1.3 ± 0.4 1.2	(84 ± 24) 80.0		GT = 81.2 WGO= 0.05 ± 0.02 WGM= 0.04	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
470.0 470.0 470.0	1 0	2.5 2.5	3.5 ± 0.6 3.4	(84 ± 24) 80.0		GT = 83.4 WGM= 0.08	JENDL-2 JENDL-1.5 69MORGENSTERN+
519.6 519.4 519.6 ± 0.5 519.2 519	0 0 0 0	2.0 2.0 2 2.0	1004 ± 16 1008.0	(84 ± 24) 80.0		GT = 1086.0 WGO= 38.0 ± 4.0 WGM= 415.0 ± 20.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
635.4 635.8 635.4 ± 0.5 635.7 636	0 0 0	3.0 3.0 3	2430 ± 48 2502.86	(84 ± 24) 110.0		GT = 2612.86 WGO= 120.0 ± 20.0 COM= UNCRTN WGM= 1410.0 ± 70.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
721.0 721.1 721.0 ± 1.0 721.2 721	0 0 0 0	2.0 2.0 2 2.0	3000 ± 67 2898.0	(84 ± 24) 70.0		GT = 2968.0 WGO= 88.0 ± 10.0 WGM= 1260.0 ± 60.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
845.2 845.2 845.2 ± 1.0 845.1 845	0 0 0 0	3.0 3.0 3 3.0	4520 ± 120 4654.29	(84 ± 24) 83.0		GT = 4737.29 WGO= 200.0 ± 32.0 WGM= 2620.0 ± 100.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
899.0 899.9 899.0 ± 1.0 898.8	1 0 0	2.5 2.5	7.6 ± 0.6 6.9	(84 ± 24) 80.0		GT = 86.9 WGO= 0.26 ± 0.03 WGM= 3.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
931.5 931.3 931.5 ± 0.1 931.1	1 0 0	2.5 2.5	3.1 ± 0.9 6.1	(84 ± 24) 80.0		GT = 86.1 WGO= 0.1 ± 0.03	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
957.2 956.8 957.2 ± 1.0 956.4 957	0 0 0 0	2.0 2.0 2 2.0	4120 ± 18 3708.0	(84 ± 24) 107.0		GT = 3815.0 WGO= 110.0 ± 10.0 WGM= 1720.0 ± 80.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 69MUGHABGHAB+
1017 1018.0 1017.0 ± 1.0	1 0 0	2.5 2.5	4.5 ± 1.3 2.6	(84 ± 24) 80.0		GT = 82.6 WGO= 0.14 ± 0.4	JENDL-2 JENDL-1.5 68WYNCHANK+
1120 1119.5 1120.0 ± 1.0 1119.1	0 0 0	3.0 3.0 3.0	1230 ± 65 1101.43	(84 ± 24) 110.0		GT = 1211.43 WGO= 35.0 ± 6.0 WGM= 730.0 ± 40.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
1285 1284.7	1 0	2.5 2.5	5.8 ± 0.7 6.0	(84 ± 24) 80.0		GT = 86.0	JENDL-2 JENDL-1.5

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1285.0 ± 1.0 1284.4	0					WGO= 0.1 ± 0.1 COM= UNCRTN WGM= 3.0 ± 1.0	68WYNCHANK+ 69MORGENSTERN+
1331 1330.0 1331.0 ± 1.0 1330.4	1 0 0	2.5 2.5	7.1 ± 1.2 5.5	(84 ±24) 80.0		GT = 85.5 WGO= 0.15 ± 0.05 WGM= 4.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
1364 1363.7 1364.0 ± 1.0 1363.4	1 1 0 1	2.5 2.5	114 ±11 107.0	(84 ±24) 80.0		GT = 187.0 WGO= 2.8 ± 0.4 WGM= 63.0 ±10.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
1384 1384.0 1384.0 ± 1.5 1380.2	1 0 0	2.5 2.5	10.3 ± 0.5 11.0	(84 ±24) 80.0		GT = 91.0 WGO= 0.3 ± 0.1 WGM= 5.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
1484 1484.0 1484.0 ± 1.5 1483.8	0 0 0 0	2.5 2.5 2 3.0	5510 ±280 5200.0	(84 ±24) 80.0		GT = 5280.0 WGO= 114.0 ±20.0 WGM= 2790.0 ±120.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
1529 1528.0 1529.0 ± 1.5 1528.6	1 0 0	2.5 2.5	7.8 ± 1.0 8.0	(84 ±24) 80.0		GT = 88.0 WGO= 0.1 ± 0.1 WGM= 4.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
1537 1537.0 1537.0 ± 1.5 1536.4	1 0 0	2.5 2.5	10.8 ± 2.0 12.0	(84 ±24) 80.0		GT = 92.0 WGO= 0.4 ± 0.2 WGM= 5.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
1672 1672.0 1672.0 ± 1.5 1671.8	1 0 0	2.5 2.5	65 ±11 70.0	(84 ±24) 80.0		GT = 150.0 WGO= 1.4 ± 0.2 WGM= 40.0 ± 8.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
1715.5 1715.4 1715.5 ± 1.5 1715.3	0 0 0 0	3.0 3.0 3 3.0	2945 ±175 2948.57	84 ±24) 80.0		GT = 3028.57 WGO= 76.0 ± 6.0 WGM= 1790.0 ±100.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
1880 1880.7 1880.0 ± 2.0 1881.4	0 0 0 0	2.5 2.0 (2)	228 ±58 204.0	(84 ±24) 80.0		GT = 284.0 WGO= 3.3 ± 0.4 WGM= 120.0 ±15.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
2036 2036.0 2036.0 ± 2.0 2035.8	0 0 0 0	2.5 2.5	183 ±21 180.0	(84 ±24) 80.0		GT = 260.0 WGO= 3.5 ± 0.5 WGM= 100.0 ±12.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
2078 2078.0	1	2.5	20 ± 8	(84 ±24)		WGM= 10.0 ± 4.0	JENDL-2 69MORGENSTERN+
2096 2096.5 2096.0 ± 2.0 2097.0	0 0 0 0	3.0 3.0 3 3.0	6550 ±140 6480.0	(84 ±24) 80.0		GT = 6560.0 WGO= 160.0 ±16.0 WGM= 3860.0 ±200.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
2132 2132.0 2132.0 ± 2.0 2131.0	0 0 0 0	3.0 3.0 3.0	973 ±36 934.286	(84 ±24) 80.0		GT = 1014.29 WGO= 23.0 ± 4.0 WGM= 580.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
2324 2324.0 2324.0 ± 2.0	1 0 0	2.5 2.5	14.5 ± 4.8 15.0	(84 ±24) 80.0		GT = 95.0 WGO= 0.3 ± 0.1	JENDL-2 JENDL-1.5 68WYNCHANK+
2356 2355.5 2356.0 ± 2.0	1 0 0	2.5 2.5	97 ±10 97.0	(84 ±24) 80.0		GT = 177.0 WGO= 2.0 ± 0.2	JENDL-2 JENDL-1.5 68WYNCHANK+
2444 2444.0	1	2.5	12 ± 6	(84 ±24)		WGM= 6.0 ± 3.0	JENDL-2 69MORGENSTERN+
2452 2452.5 2452.0 ± 2.5 2453.0	0 0 0 0	3.0 3.0 3 3.0	1470 ±25 1465.71	(84 ±24) 80.0		GT = 1545.71 WGO= 34.0 ± 4.0 WGM= 870.0 ±80.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
2498 2498.0 2498.0 ± 2.5	1 0 0	2.5 2.5	10 ± 5 10.0	(84 ±24) 80.0		GT = 90.0 WGO= 0.2 ± 0.1 COM= UNCRTN	JENDL-2 JENDL-1.5 68WYNCHANK+
2576 2575.0 2576.0 ± 2.5 2574.0	1 0 0	2.5 2.5	24.2 ± 1.6 23.0	(84 ±24) 80.0		GT = 103.0 WGO= 0.5 ± 0.1 WGM= 11.0 ± 3.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+
2600 2598.0 2600.0	1	2.5	42 ±22 (20.0)	(84 ±24)	14.0	WGM= 10.0 ± 3.0	JENDL-2 69MORGENSTERN+ 79TAYLOR+
2607 2605.0 2605.0 ± 2.5 2605.0 2607.0	0 0 0 0	2.5 2.5	275 ±10 270.0	84 ± 8 80.0		GT = 350.0 WGO= 5.0 ± 1.0 WGM= 140.0 ±15.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
2670 2669.0 2670.0	1	2.5	11 ± 2 (10.0)	(84 ±24)		WGM= 5.0 ± 3.0	JENDL-2 69MORGENSTERN+ 79TAYLOR+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
2695 2693.0 2695.0	1	2.5	16.8 ± 3	(84 ±24)		WGM= 7.0 ± 3.0	JENDL-2 69MORGENSTERN+ 79TAYLOR+
2710 2706.0 2706.0 ± 2.5 2706.0 2710.0	1 0 0	2.5 2.5	14 ± 2 10.0	(84 ±24) 80.0		GT = 90.0 WGO= 0.1 ± 0.1 COM= UNCRTN WGM= 7.0 ± 3.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
2792 2789.0 2789.0 ± 3.0 2792.0	1 0 0	2.5 2.5	11 ± 2 10.0	(84 ±24) 80.0		GT = 90.0 WGO= 0.2 ± 0.1 COM= UNCRTN	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
2836 2834.5 2835.0 ± 3.0 2834.0 2836.0	0 0 0 1 0	2.5 2.5	215 ±64 160.0	104 ±21 80.0		GT = 240.0 WGO= 2.7 ± 0.4 WGM= 136.0 ±18.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
2929 2926.0 2926.0 ± 3.0 2926.0 2929.0	0 0 0 0	3.0 3.0 3	470 ±40 480.0	89 ±10 80.0		GT = 560.0 WGO= 3.4 ± 1.0 WGM= 300.0 ±40.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
2946 2943.5 2944.0 ± 3.0 2943.0 2946.0	1 0 0 0	2.5 2.5	36 ± 7 33.0	172 ±190 80.0		GT = 113.0 WGO= 0.4 ± 0.2 WGM= 20.0 ± 5.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
2975 2975.0 2977.0 ± 3.0 2973.0 2975.0	0 0 0 0	2.5 2.5	271 ± 2 270.0	130 ±19 80.0		GT = 350.0 WGO= 5.0 ± 2.0 WGM= 135.0 ±30.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
2999 2998.0 2998.0 ± 3.0 2998.0 2999.0	0 0 0 0 0	3.0 3.0 3 3.0	12000 ±1000 1127.14	93 ± 9 80.0		GT = 1207.14 WGO= 240.0 ±40.0 WGM= 6470.0 ±400.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
3034 3034.0	1	2.5	14 ± 2	(84 ±24)			JENDL-2 79TAYLOR+
3079 3078.0 3079.0 ± 3.0 3078.0 3079.0	1 0 0 0	2.5 2.5	20 ± 4 17.0	(84 ±24) 80.0		GT = 97.0 WGO= 0.3 ± 0.2	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
3159 3156.0 3156.0 ± 3.0 3156.0 3159.0	0 0 0 0 0	2.0 2.0 2	985 ±155 600.0	72 ± 8 80.0		GT = 680.0 WGO= 10.4 ± 2.0 WGM= 450.0 ±50.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
3182.0 ± 3.0	0					WGO= 0.1 ± 0.1 COM= UNCRTN	68WYNCHANK+
3225 3222.0 3223.0 ± 3.0 3221.0 3225.0	1 0 0	2.5 2.5	30 ±10 24.0	(84 ±24) 80.0		GT = 104.0 WGO= 0.2 ± 0.2 WGM= 12.0 ± 4.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
3397 3395.0 3396.0 ± 3.0 3384.0 3397.0	1 1 0 1 1	2.5 2.5	155 ±22 160.0	183 ±50 80.0		GT = 240.0 WGO= 2.2 ± 0.4 WGM= 87.0 ±13.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
3475 3473.0 3474.0 ± 3.0 3472.0 3475.0	0 0 0 0 0	3.0 3.0 (3)	817 ± 7 805.71	124 ±14 80.0		GT = 885.71 WGO= 16.0 ± 2.0 WGM= 480.0 ±50.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
3583 3582.0 3582.0 ± 3.5 3581.0 3583.0	0 0 0 0	2.5 2.5	445 ±12 450.0	86 ±10 80.0		GT = 530.0 WGO= 8.0 ± 4.0 WGM= 220.0 ±40.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
3603 3602.0 3603.0 ± 3.5 3601.0 3603.0	0 0 0 0 0	2.0 2.0 (3) 2.0	7700 ±2000 9276.0	90 ±10 80.0		GT = 9356.0 WGO= 130.0 ±20.0 WGM= 3540.0 ±300.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
3635 3643.0 ± 3.5 3635.0	1 0	2.5	8.8 ± 4	(84 ±24)		WGO= 0.2 ± 0.2 COM= UNCRTN	JENDL-2 68WYNCHANK+ 79TAYLOR+
3695 3695.0	1	2.5	4.2 ± 0.5	(84 ±24)			JENDL-2 79TAYLOR+
3702 3702.0	1	2.5	8.8 ± 1	(84 ±24)			JENDL-2 79TAYLOR+
3725	1	2.5	74 ± 8	40 ± 7			JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3725.0 3726.0 ± 3.5 3721.0 3725.0	0 0	2.5	55.0 (80.0)	80.0		GT = 135.0 WGO = 0.8 ± 0.4 WGM = 38.0 ± 6.0	JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
3762 3762.0	0 0	2.5	4000 ±500 4000.0 ±500.0	16 ± 2 16.0 ± 2.0	8.0		JENDL-2 79TAYLOR+
3783 3780.0 3780.0 ± 3.5 3780.0 3783.0	0 0 0 0 0	3.0 3.0 (3) 3.0	6000 ±500 7594.29 6000.0 ±500.0	73 ± 7 80.0 86.0 ± 3.0	42.0	GT = 7674.29 WGO = 148.0 ±20.0 WGM = 4310.0 ±300.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
3869 3869.0	1	2.5	2.0 ± 0.2	84 ±24 2.0 ± 1.0	1.0		JENDL-2 79TAYLOR+
3903 3901.0 3902.0 ± 3.5 3899.0 3903.0	1 0 0 0	2.5 2.5	39 ± 2 1820.0 (40.0)	41 ± 9 80.0 21.0 ± 1.0	10.0	GT = 1900.0 WGO = 0.6 ± 0.2 WGM = 20.0 ± 7.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
3928 3928.0 ± 3.5 3927.0	0 0 0	2.0 (2)	1880 ±100	84 ±24		WGO = 27.0 ± 5.0 WGM = 970.0 ±100.0	JENDL-2 68WYNCANK+ 69MORGENSTERN+
3971 3960.0 3970.0 ± 4.0 3966.0 3971.0	1 0 0 0	2.5 2.5	38 ±10 32.0 (20.0)	52 ±23 80.0	11.0	GT = 112.0 WGO = 0.7 ± 0.2 WGM = 10.0 ± 5.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
4002 4001.0 4002.0 ± 4.0 3999.0 4002.0	0 0 0 0 0	2.0 2.0 (2)	850 ±80 780.0 (700.0)	67 ± 7 80.0 56.0 ± 1.0	26.0	GT = 860.0 WGO = 9.0 ± 2.0 WGM = 370.0 ±40.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
4022 4021.0 4022.0	1	2.5	47 ±10 (40.0)	84 ±24 31.0 ± 1.0	15.0	WGM = 20.0 ± 8.0	JENDL-2 69MORGENSTERN+ 79TAYLOR+
4042 4042.0	1	2.5	26 ± 4	84 ±24 20.0 ± 1.0	10.0		JENDL-2 79TAYLOR+
4368 4363.0 4368.0	1	2.5	20 ± 3 (20.0)	84 ±24 17.0 ± 1.0	8.0	WGM = 10.0 ± 5.0	JENDL-2 69MORGENSTERN+ 79TAYLOR+
4397 4395.0 4397.0 ± 4.0 4393.0 4397.0	0 0 0 0	2.5 2.5	236 ±15 245.0 (230.0)	96 ±14 80.0 93.0 ± 1.0	34.0	GT = 325.0 WGO = 4.0 ± 1.0 WGM = 114.0 ±15.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
4474 4474.0 4476.0 ± 4.0 4472.0 4474.0	0 0 0 0	2.5 2.5	200 ±40 220.0 (180.0)	117 ±22 80.0 111.0 ± 6.0	37.0	GT = 300.0 WGO = 4.0 ± 1.0 WGM = 90.0 ±13.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
4496 4496.0	1	2.5	6.5 ± 0.7	84 ±24	3.0		JENDL-2 79TAYLOR+
4511 4511.0	1	2.5	8.8 ± 1.0	84 ±24	4.0		JENDL-2 79TAYLOR+
4523 4520.5 4522.0 ± 4.0 4519.0 4523.0	0 0 0 0 0	3.0 3.0 3.0	990 ±100 797.14 (1010.0)	64 ± 7 80.0 75.0 ± 5.0	35.0	GT = 877.14 WGO = 10.0 ± 5.0 WGM = 590.0 ±70.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
4542 4541.0 4544.0 ± 4.0 4536.0 4542.0	0 0 0 0 0	3.0 3.0 3.0	3000 ±1000 4680.0 3000.0 ±1000.0	98 ±10 80.0 117.0 ± 5.0	56.0	GT = 4760.0 WGO = 80.0 ±20.0 WGM = 2770.0 ±250.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
4556 4556.0	1	2.5	84 ±30	84 ±24 43.0 ± 2.0	21.0		JENDL-2 79TAYLOR+
4583 4586.0 4587.0 ± 4.0 4578.0 4583.0	0 0 0 0 0	2.0 2.0 2.0	6100 ±2000 7320.0 6100.0 ±2000.0	105 ±11 80.0 68.0 ± 6.0	43.0	GT = 7400.0 WGO = 80.0 ±16.0 WGM = 3180.0 ±250.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
4596.0 ± 4.0	0					WGO = 0.1 ± 0.1	68WYNCANK+
4620 4620.0	0 0	2.5	4100 ±2000 4100.0 ±2000.0	19 ± 2 19.0 ± 2.0	9.0		JENDL-2 79TAYLOR+
4669 4670.0 4673.0 ± 4.0 4666.0 4669.0	0 0 0 0 0	2.5 2.5	1500 ±230 1230.0 (1600.0)	71 ± 7 80.0 71.0 ± 1.0	34.0	GT = 1310.0 WGO = 12.0 ± 4.0 WGM = 790.0 ±90.0	JENDL-2 JENDL-1.5 68WYNCANK+ 69MORGENSTERN+ 79TAYLOR+
4679 4679.0	1	2.5	12.5 ± 1.6	40 ± 1 40.0 ± 1.0	19.0		JENDL-2 79TAYLOR+
4712 4699.0 ± 4.0 4706.0	1 0	2.5	57 ±14	84 ±24		WGO = 0.64 ± 0.2	JENDL-2 68WYNCANK+ 69MORGENSTERN+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
4712.0				^a 35.0 ± 1.0	17.0		79TAYLOR+
4744.0 ± 4.0	0					WGO= 0.1 ± 0.1	68WYNCHANK+
4766.0 ± 4.0	0					WGO= 0.1 ± 0.1	68WYNCHANK+
4848 4843.0 4849.0	1	2.5	52 ±12	(84 ±24)		WGM= 20.0 ± 7.0	JENDL-2 69MORGENSTERN+ 79TAYLOR+
4870 4870.0	1	2.5	20 ± 3	(84 ±24)	15.0		JENDL-2 79TAYLOR+
4960 4955.0 4960.0	0	2.5	200 ±40	117 ±23		WGM= 100.0 ±20.0	JENDL-2 69MORGENSTERN+ 79TAYLOR+
4974 4973.0 4977.0 ± 5.0 4969.0 4974.0	0 0 0 0 0	2.5 2.5	950 ±300 1015.0	78 ± 9 80.0		GT = 1095.0 WGO= 10.0 ± 1.0 WGM= 660.0 ±80.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5008 5007.0 5011.0 ± 5.0 5003.0 5008.0	0 0 0 1 0	2.5 2.5	640 ±190 495.0	66 ± 8 80.0		GT = 575.0 WGO= 4.0 ± 1.0 WGM= 370.0 ±50.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5039 5039.0 5043.0 ± 5.0 5035.0 5039.0	0 0 0 0 0	2.5 2.5	163 ±11 170.0	100 ±17 80.0		GT = 250.0 WGO= 2.2 ± 0.4 WGM= 90.0 ±25.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5049 5044.0 5049.0	1	2.5	72 ±24	(84 ±24)	127 ±83	WGM= 36.0 ±12.0	JENDL-2 69MORGENSTERN+ 79TAYLOR+
5117 5117.0	1	2.5	16.8 ± 2.2	(84 ±24) ^a 15.0 ± 1.0	7.0		JENDL-2 79TAYLOR+
5139 5137.0 5143.0 ± 5.0 5135.0 5139.0	1 1 0 1 1	2.5 2.5	750 ±600 1400.0	54 ± 6 80.0		GT = 1480.0 WGO= 3.6 ± 0.4 WGM= 700.0 ±90.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5178.0 ± 5.0	0					WGO= 0.6 ± 0.3	68WYNCHANK+
5227 5227.0	1	2.5	20 ± 3	(84 ±24) ^a 19.0 ± 1.0	8.0		JENDL-2 79TAYLOR+
5247 5245.0 5250.0 ± 5.0 5240.0 5247.0	0 0 0 0 0	3.0 3.0	3400 ±2000 2944.28	149 ±16 80.0		GT = 3024.28 WGO= 40.0 ± 6.0 WGM= 1970.0 ±200.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5351 5350.0 5356.0 ± 5.0 5348.0 5351.0	1 1 0 1 1	2.5 2.5	450 ±200 520.0	72 ±10 80.0		GT = 700.0 WGO= 2.5 ± 0.4 WGM= 310.0 ±40.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5392 5395.0 ± 5.0 5387.0 5392.0	1 0	2.5	140 ±50	68 ±15		WGO= 0.2 ± 0.2 WGM= 80.0 ±30.0	JENDL-2 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5418 5410.0 5418.0	1	2.5	160 ±60	40 ± 6		WGM= 80.0 ±30.0	JENDL-2 69MORGENSTERN+ 79TAYLOR+
5448 5448.0	1	2.5	30 ± 5	(84 ±24)	11.0		JENDL-2 79TAYLOR+
5510.0 ± 5.0	0					WGO= 0.45 ± 0.1	68WYNCHANK+
5598 5596.0 5600.0 ± 6.0 5593.0 5598.0	0 0 0 0 0	2.0 2.0	11100 ±1000 13344.0	85 ± 9 80.0		GT = 13424.0 WGO= 150.0 ±30.0 WGM= 5560.0 ±350.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5646 5643.0 5646.0 ± 6.0 5640.0 5646.0	0 0 0 0 0	2.5 2.5	860 ±160 820.0	93 ±10 80.0		GT = 900.0 WGO= 20.0 ±10.0 WGM= 410.0 ±50.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5730 5729.0 5734.0 ± 6.0 5724.0 5730.0	0 0 0 0 0	3.0 3.0	3000 ±210 2922.86	74 ± 8 80.0		GT = 3002.86 WGO= 40.0 ± 8.0 WGM= 1810.0 ±200.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 69MORGENSTERN+ 79TAYLOR+
5782 5784.0 5784.0 ± 6.0 5782.0	1 0 0 0	2.5 2.5	6.5 ±15 22.82	(84 ±24) 80.0		GT = 102.82 WGO= 0.3 ± 0.1	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
5807 5802.0 5802.0 ± 6.0 5807.0	1 0 0 0	2.5	63 ±40 22.85	(84 ±24) 80.0		GT = 102.85 WGO= 0.3 ± 0.1	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
5835 5835.0	1	2.5	6.5 ± 1	(84 ±24)	3.0		JENDL-2 79TAYLOR+
5910 5914.0 5914.0 ± 6.0 5910.0	0 0 0 0	2.5 2.5	460 ±77 461.42 (460.0)	72 ± 8 80.0 72.0 ± 7.0	31.0	GT = 541.42 WGO= 6.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
5918 5918.0	1	2.5	112 ±50	(84 ±24)	24.0		JENDL-2 79TAYLOR+
5937 5937.0	1	2.5	76 ±25	(84 ±24)	20.0		JENDL-2 79TAYLOR+
5949 5954.0 5954.0 ± 6.0 5949.0	0 0 0 0	2.5 2.5	390 ±39 385.81 (380.0)	117 ±16 80.0 111.0 ± 1.0	45.0	GT = 465.81 WGO= 5.0 ± 0.5	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
5995 5998.0 5998.0 ± 7.0 5995.0	1 0 0 0	2.5 2.5	69 ±50 23.29 (20.0)	(84 ±24) 80.0	19.0	GT = 103.23 WGO= 0.3 ± 0.1	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6015 6015.0	1	2.5	6.5 ± 1	(84 ±24)	3.0		JENDL-2 79TAYLOR+
6035 6035.0	1	2.5	23 ± 3	(84 ±24)	9.0		JENDL-2 79TAYLOR+
6050 6050.0	1	2.5	11.4 ± 1.4	(84 ±24)	6.0		JENDL-2 79TAYLOR+
6070 6073.0 6073.0 ± 7.0 6070.0	1 0 0 0	2.5 2.5	100 ±70 31.17 (30.0)	(84 ±24) 80.0	23.0	GT = 111.17 WGO= 0.4 ± 0.1	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6252 6255.0 6255.0 ± 7.0 6252.0	0 0 0 0	2.5 2.5	395 ±80 395.44 (390.0)	120 ±17 80.0 119.0 ± 2.0	46.0	GT = 475.44 WGO= 5.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6267 6267.0	1	2.5	67 ±15	(84 ±24)	17.0		JENDL-2 79TAYLOR+
6285 6286.0 6286.0 ± 7.0 6285.0	0 0 0 0	2.5 2.5	320 ±80 317.14 (320.0)	111 ±18 80.0 109.0 ± 2.0	41.0	GT = 387.14 WGO= 4.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6325 6329.0 6329.0 ± 7.0 6325.0	0 0 0 0	2.5 2.5	400 ±80 397.78 (400.0)	76 ±10 80.0 75.0 ± 4.0	32.0	GT = 477.78 WGO= 5.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6380 6380.0	1	2.5	150 ±90	(84 ±24)	27.0		JENDL-2 79TAYLOR+
6465 6456.0 6456.0 ± 7.0 6465.0	1 0 0 0	2.5 2.5	48 ±24 48.21 (40.0)	67 ±49 80.0	14.0	GT = 128.21 WGO= 0.6 ± 0.3	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6477 6477.0	1	2.5	69 ±21	(84 ±24)	19.0		JENDL-2 79TAYLOR+
6580 6582.0 6582.0 ± 8.0 6580.0	0 0 0 0	2.5 2.5	490 ±80 486.78 (149.0)	96 ±12 80.0 95.0 ± 4.0	40.0	GT = 566.78 WGO= 6.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6703 6711.0 6711.0 ± 8.0 6703.0	0 0 0 0	2.5 2.5	4915 ±1200 4915.24 (4900.0)	96 ±10 80.0 95.0 ± 7.0	47.0	GT = 4995.24 WGO= 80.0 ±15.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6720 6726.0 6726.0 ± 8.0 6720.0	0 0 0 0	2.5 2.5	3280 ±980 3280.49 (3300.0)	82 ± 8 80.0 82.0 ± 3.0	40.0	GT = 3350.49 WGO= 40.0 ±12.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6755 6755.0	1	2.5	20 ± 3	(84 ±24)	8.0		JENDL-2 79TAYLOR+
6773 6779.0 6779.0 ± 8.0 6773.0	1 0 0 0	2.5 2.5	66 ±33 65.87 (60.0)	18 ± 3 80.0 18.0 ± 1.0	7.0	GT = 145.87 WGO= 0.8 ± 0.4	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
6795 6795.0	1	2.5	84 ±29	(84 ±24)	21.0		JENDL-2 79TAYLOR+
6862 6862.0	1	2.5	168 ±110	(84 ±24)	28.0		JENDL-2 79TAYLOR+
6882 6882.0	1	2.5	30 ± 5	(84 ±24)	11.0		JENDL-2 79TAYLOR+
6886 6886.0	1	2.5	34 ± 6	(84 ±24)	12.0		JENDL-2 79TAYLOR+
6915 6915.0	1	2.5	14 ± 2	(84 ±24)	6.0		JENDL-2 79TAYLOR+
6924	0	2.5	416 ±83	87 ±11			JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
6927.0 6927.0 ± 8.0 6924.0	0 0 0	2.5	416.14 (410.0)	80.0 87.0 ± 3.0	36.0	GT = 496.14 WGO = 5.0 ± 1.0	JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
6970 6970.0	1	2.5	8.8 ± 1	(84 ±24)	4.0		JENDL-2 79TAYLOR+
7005 7005.0	1	2.5	6.5 ± 1	(84 ±24)	3.0		JENDL-2 79TAYLOR+
7017 7017.0	1	2.5	16.9 ± 2	(84 ±24)	7.0		JENDL-2 79TAYLOR+
7045 7045.0	1	2.5	2.0 ± 0.2	(84 ±24)	1.0		JENDL-2 79TAYLOR+
7074 7078.0 7076.0 ± 9.0 7074.0	0 0 0 0	2.5 2.5	335 ±84 336.48 (330.0)	85 ±12 80.0 85.0 ± 2.0	34.0	GT = 416.48 WGO = 4.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7163 7169.0 7169.0 ± 9.0 7163.0	0 0 0 0	2.5 2.5	4230 ±850 4233.49 (4200.0)	96 ±10 80.0 117.0 ± 5.0	47.0	GT = 4313.5 WGO = 50.0 ±10.0	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7180 7180.0	1	2.5	84 ±29	(84 ±24)	21.0		JENDL-2 79TAYLOR+
7217 7221.0 7221.0 ± 9.0 7217.0	0 0 0 0	2.5 2.5	255 ±42 254.93 (2600.0)	82 ±12 80.0 81.0 ± 3.0	31.0	GT = 334.93 WGO = 3.0 ± 0.5	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7236 7236.0	1	2.5	26 ± 4	(84 ±24)	10.0		JENDL-2 79TAYLOR+
7330 7330.0	1	2.5	42 ± 9	(84 ±24) 29.0 ± 3.0	14.0		JENDL-2 79TAYLOR+
7345 7347.0 7347.0 ± 9.0 7345.0	0 0 0 0	2.5 2.5	6800 ±3000 8571.46 6800.0 ±3000.0	103 ±10 80.0 103.0 ± 5.0	51.0	GT = 8651.46 WGO = 100.0 ±25.0	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7387 7391.0 7391.0 ± 9.0 7387.0	0 0 0 0	2.5 2.5	1100 ±500 34.99 (30.0)	(84 ±24) 80.0	39.0	GT = 114.39 WGO = 0.4 ± 0.2	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7400 7400.0	1 0	2.5	240 ±210	(84 ±24)	31.0		JENDL-2 79TAYLOR+
7424 7424.0	1	2.5	23 ± 3	(84 ±24)	9.0		JENDL-2 79TAYLOR+
7477 7483.0 7483.0 ± 9.0 7477.0	0 0 0 0	2.5 2.5	346 ±87 346.02 (300.0)	76 ±10 80.0 72.0 ± 5.0	31.0	GT = 426.02 WGO = 4.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7500 7500.0	1	2.5	57 ±15	(84 ±24)	17.0		JENDL-2 79TAYLOR+
7558.0 7558.0 ±10.0	0 0	2.5	43.47	80.0		GT = 123.47 WGO = 0.5 ± 0.2	JENDL-1.5 68WYNCCHANK+
7659 7667.0 7667.0 ±10.0 7659.0	0 0 0 0	2.5 2.5	525 ±175 525.37	89 ±12 80.0	36.0	GT = 605.37 WGO = 6.0 ± 2.0	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7682 7693.0 7693.0 ±10.0 7682.0	0 0 0 0	2.5 2.5	350 ±175 350.84	78 ±13 80.0	32.0	GT = 430.84 WGO = 4.0 ± 2.0	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7767 7779.0 7779.0 ±10.0 7767.0	0 0 0 0	2.5 2.5	3880 ±860 3880.74 (3900.0)	98 ±10 80.0 98.0 ± 5.0	48.0	GT = 3950.74 WGO = 44.0 ±10.0	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7822 7830.0 7830.0 ±10.0 7822.0	1 0 0 0	2.5 2.5	(106 ±20) 88.49 (80.0)	162 ±64 80.0	34.0	GT = 166.49 WGO = 1.0 ± 0.2	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7862 7862.0	1	2.5	34 ± 6	(84 ±24)	12.0		JENDL-2 79TAYLOR+
7885 7885.0	1	2.5	30 ± 5	(84 ±24)	11.0		JENDL-2 79TAYLOR+
7897 7903.0 7903.0 ±10.0 7897.0	0 0 0 0	2.5 2.5	445 ±90 444.5 (400.0)	75 ± 9 80.0 77.0 ± 6.0	32.0	GT = 524.5 WGO = 5.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7955 7960.0 7960.0 ±10.0 7955.0	1 0 0 0	2.5 2.5	(53 ±25) 35.69 (320.0)	163 ±260 80.0 46.0 ± 5.0	20.0	GT = 115.69 WGO = 0.4 ± 0.2	JENDL-2 JENDL-1.5 68WYNCCHANK+ 79TAYLOR+
7982 7982.0	1	2.5	23 ± 3	(84 ±24)	9.0		JENDL-2 79TAYLOR+
8010.0	0	2.5	71.6	80.0		GT = 151.6	JENDL-1.5

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	RMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
8010.0 ±10.0	0					WGO= 0.8 ± 0.3	68WYNCHANK+
8040 8040.0	1 0	2.5	800 ±2300	(84 ±24)	38.0		JENDL-2 79TAYLOR+
8057 8082.0 8082.0 ±11.0 8057.0	0 0 0 0	2.5 2.5	5400 ±3000 5387.31	67 ± 7 80.0		GT = 5467.32 WGO= 60.0 ±15.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
8115 8119.0 8119.0 ±11.0 8115.0	1 0 0 0	2.5 2.5	90 ±45 90.11 (700.0)	60 ±22 80.0 89.0 ± 3.0	18.0	GT = 170.11 WGO= 1.0 ± 0.5	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
8157 8157.0	1	2.5	26 ± 4	(84 ±24)	10.0		JENDL-2 79TAYLOR+
8213 8229.0 8229.0 ±11.0 8213.0	0 0 0 0	2.5 2.5	3300 ±750 3265.7 (3200.0)	116 ±12 80.0 145.0 ± 3.0	56.0	GT = 3345.7 WGO= 36.0 ± 8.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
8230 8291.0 8291.0 ±11.0 8290.0	1 0 0 0	2.5 2.5	46 ±18 45.53 (40.0)	134 ±167 80.0	17.0	GT = 125.53 WGO= 0.5 ± 0.2	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
8333.0 8333.0 ±11.0	0 0	2.5	182.57	80.0		GT = 262.57 WGO= 2.0 ± 1.0	JENDL-1.5 68WYNCHANK+
8382 8387.0 8387.0 ±11.0 8382.0	0 0 0 0	2.5 2.5	183 ±92 183.16 (160.0)	45 ± 8 80.0 45.0 ± 3.0	18.0	GT = 263.16 WGO= 2.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
8440 8440.0	1	2.5	20 ± 3	(84 ±24)	8.0		JENDL-2 79TAYLOR+
8475 8475.0	1	2.5	11.4 ± 1.4	(84 ±24)	5.0		JENDL-2 79TAYLOR+
8492 8502.0 8502.0 ±11.0 8492.0	0 0 0 0	2.5 2.5	277 ±92 276.62 (280.0)	84 ±16 80.0 95.0 ± 6.0	35.0	GT = 356.62 WGO= 3.0 ± 1.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
8547 8555.0 8555.0 ±12.0 8547.0	0 0 0 0	2.5 2.5	1300 ±185 1294.9 (1300.0)	88 ± 9 80.0 88.0 ± 5.0	41.0	GT = 1374.9 WGO= 14.0 ± 2.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
8705 8705.0	0 0	2.5	620 ±1400	(84 ±24)	37.0		JENDL-2 79TAYLOR+
8795 8804.0 8804.0 ±12.0 8795.0	0 0 0 0	2.5 2.5	8400 ±3400 8444.66 8400.0 ±3400.0	56 ± 6 80.0 56.0 ± 5.0	28.0	GT = 8524.65 WGO= 90.0 ±16.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
8845 8845.0	1	2.5	84 ±29	(84 ±24)	21.0		JENDL-2 79TAYLOR+
8907 8907.0	0 0	2.5	2700 ±1000 2700.0 ±1000.0	80 ±10 83.0 ± 5.0	45.0		JENDL-2 79TAYLOR+
8925.0 8925.0 ±12.0	0 0	2.5	5290.44	80.0		GT = 5370.44 WGO= 56.0 ±20.0	JENDL-1.5 68WYNCHANK+
8933 8933.0	0 0	2.5	2700 ±1000 2700.0 ±1000.0	120 ±12 127.0 ± 5.0	60.0		JENDL-2 79TAYLOR+
9062 9062.0	1 0	2.5	360 ±470	(84 ±24)	34.0		JENDL-2 79TAYLOR+
9100 9100.0	1 0	2.5	360 ±470	(84 ±24)	34.0		JENDL-2 79TAYLOR+
9112 9113.0 9113.0 ±12.0 9112.0	0 0 0 0	2.5 2.5	3450 ±760 3436.63	40 ± 4 80.0 40.0 ± 2.0	20.0	GT = 3516.63 WGO= 36.0 ± 8.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
9132 9132.0	0 0	2.5	1060 ±2700	(108 ±25)	49.0		JENDL-2 79TAYLOR+
9200 9200.0	1	2.5	30 ± 5	(84 ±24)	11.0		JENDL-2 79TAYLOR+
9245 9245.0	0 0	2.5	800 ±2300	(84 ±24)	38.0		JENDL-2 79TAYLOR+
9255 9258.0 9258.0 ±12.0 9255.0	0 0 0 0	2.5 2.5	9600 ±4000 9621.85 9600 ±4000	68 ± 7 80.0 79.0 ± 4.0	34.0	GT = 9701.85 WGO= 100.0 ±25.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
9290 9290.0	0 0	2.5	360 ±470	(84 ±24)	34.0		JENDL-2 79TAYLOR+
9431 9443.0 9443.0 ±13.0 9431.0	0 0 0 0	2.5 2.5	10000 ±4000 10883.6 10000 ±4000	83 ± 8 80.0 84.0 ± 4.0	41.0	GT = 10963.6 WGO= 112.0 ±30.0	JENDL-2 JENDL-1.5 68WYNCHANK+ 79TAYLOR+
9443	0	2.5	308 ±350	(84 ±24)			JENDL-2

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-eV)	GAMMA WIDTH (MILLI-eV)	MWG (MILLI-eV)	MISCELLANEOUS	REFERENCE
9443.0	0				33.0		79TAYLOR+
9502 9502.0	1	2.5	112 ±50	(84 ±24)	24.0		JENDL-2 79TAYLOR+
9520 9520.0	1	2.5	23 ± 3	(84 ±24)	9.0		JENDL-2 79TAYLOR+
9543 9557.0 9557.0 ±13.0 9543.0	0 0 0 0	2.5 2.5	5900 ±3000 5865.59	93 ±10 80.0		GT = 5945.59 WGO= 80.0 ±15.0	JENDL-2 JENDL-1.5 68BYNCHANK+ 79TAYLOR+
9598 9621.0 9621.0 ±13.0 9598.0	0 0 0 0	2.5 2.5	8700 ±4000 15693.9	84 ± 9 80.0		GT = 15773.9 WGO= 160.0 ±40.0	JENDL-2 JENDL-1.5 68BYNCHANK+ 79TAYLOR+
9635 9635.0	0 0	2.5	8000 ±4000 8000 ±4000	54 ± 6 53.0 ± 5.0	27.0		JENDL-2 79TAYLOR+
9772 9772.0	1	2.5	92 ±35	(84 ±24)	22.0		JENDL-2 79TAYLOR+
9785 9822.0 9822.0 ±13.0 9785.0	0 0 0 0	2.5 2.5	990 ±200 991.06	59 ± 6 80.0		GT = 1071.06 WGO= 10.0 ± 2.0	JENDL-2 JENDL-1.5 68BYNCHANK+ 79TAYLOR+
9888 9888.0	0	2.5	1060 ±2700	(108 ±25)	49.0		JENDL-2 79TAYLOR+
10022 10049.0 10049.0 ±13.0 10022.0	0 0 0 0	2.5 2.5	5000 ±1000 5012.24	75 ± 8 80.0		GT = 5092.24 WGO= 50.0 ±10.0	JENDL-2 JENDL-1.5 68BYNCHANK+ 79TAYLOR+
10050 10050.0	0 0	2.5	1275 ±4250	(118 ±34)	54.0		JENDL-2 79TAYLOR+
10073 10073.0	1	2.5	76 ±25	(84 ±24)	20.0		JENDL-2 79TAYLOR+
10092 10092.0	1	2.5	137 ±73	(84 ±24)	26.0		JENDL-2 79TAYLOR+
10232 10232.0	0 0	2.5	360 ±47	(84 ±24)	34.0		JENDL-2 79TAYLOR+
10275 10275.0	0 0	2.5	1460 ±6000	(126 ±42)	58.0		JENDL-2 79TAYLOR+
10412 10412.0	1	2.5	210 ±170	(84 ±24)	30.0		JENDL-2 79TAYLOR+
10448 10448.0	0 0	2.5	308 ±350	(84 ±24)	33.0		JENDL-2 79TAYLOR+
10557 10557.0	0 0	2.5	237 ±210	(84 ±24)	31.0		JENDL-2 79TAYLOR+
10690 10690.0	0 0	2.5	900 ±2140	(100 ±24)	45.0		JENDL-2 79TAYLOR+
10742 10742.0	1	2.5	38 ± 7	(84 ±24)	13.0		JENDL-2 79TAYLOR+
10828 10828.0	1	2.5	47 ±10	(84 ±24)	15.0		JENDL-2 79TAYLOR+
10852 10852.0	1	2.5	4.2 ± 0.4	(84 ±24)	2.0		JENDL-2 79TAYLOR+
10874 10874.0	1	2.5	69 ±21	(84 ±24)	19.0		JENDL-2 79TAYLOR+
10938 10938.0	0 0	2.5	504 ±933	(84 ±24)	36.0		JENDL-2 79TAYLOR+
10955 10955.0	0 0	2.5	900 ±2140	(100 ±24)	45.0		JENDL-2 79TAYLOR+
10995 10995.0	0 0	2.5	357 ±472	(84 ±24)	34.0		JENDL-2 79TAYLOR+
11047 11047.0	1	2.5	151 ±89	(84 ±24)	27.0		JENDL-2 79TAYLOR+
11114 11114.0	0 0	2.5	1320 ±4700	(120 ±36)	55.0		JENDL-2 79TAYLOR+
11137 11137.0	0 0	2.5	1140 ±3400	(112 ±28)	51.0		JENDL-2 79TAYLOR+
11175 11175.0	1	2.5	124 ±50	(84 ±24)	25.0		JENDL-2 79TAYLOR+
11240 11240.0	1	2.5	20 ± 3	(84 ±24)	6.0		JENDL-2 79TAYLOR+
11261 11261.0	0 0	2.5	270 ±270	(84 ±24)	32.0		JENDL-2 79TAYLOR+
11392 11392.0	1	2.5	151 ±89	(84 ±24)	27.0		JENDL-2 79TAYLOR+
11462	1	2.5	92 ±35	(84 ±24)			JENDL-2

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWG (MILLI-EV)	MISCELLANEOUS	REFERENCE
11462.0					22.0		79TAYLOR+
11513 11513.0	0 0	2.5	1370 ±5100	(122 ±38)	56.0		JENDL-2 79TAYLOR+
11542 11542.0	0	2.5	790 ±1850	(84 ±24)	42.0		JENDL-2 79TAYLOR+
11572 11572.0	1	2.5	69 ±20	(84 ±24)	19.0		JENDL-2 79TAYLOR+
11591 11591.0	1	2.5	168 ±110	(84 ±24)	28.0		JENDL-2 79TAYLOR+
11612 11612.0	1	2.5	84 ±30	(84 ±24)	21.0		JENDL-2 79TAYLOR+
11703 11703.0	0 0	2.5	357 ±470	(84 ±24)	34.0		JENDL-2 79TAYLOR+
11800 11800.0	0 0	2.5	168 ±108	(84 ±24)	28.0		JENDL-2 79TAYLOR+
11882 11882.0	0 0	2.5	308 ±350	(84 ±24)	33.0		JENDL-2 79TAYLOR+
11898 11898.0	0 0	2.5	1100 ±4300	(84 ±24)	39.0		JENDL-2 79TAYLOR+
11914 11914.0	0 0	2.5	504 ±950	(84 ±24)	36.0		JENDL-2 79TAYLOR+
11970 11970.0	0 0	2.5	3450 ±4300	(84 ±24)	41.0		JENDL-2 79TAYLOR+
12037 12037.0	0 0	2.5	1320 ±4700	(120 ±36)	55.0		JENDL-2 79TAYLOR+
12180 12180.0	1	2.5	69 ±21	(84 ±24)	19.0		JENDL-2 79TAYLOR+
12205 12205.0	1	2.5	76 ±25	(84 ±24)	20.0		JENDL-2 79TAYLOR+
12260 12260.0	0 0	2.5	860 ±2030	(98 ±24)	44.0		JENDL-2 79TAYLOR+
12295 12295.0	0 0	2.5	308 ±350	(84 ±24)	33.0		JENDL-2 79TAYLOR+
12330 12330.0	1	2.5	137 ±73	(84 ±24)	25.0		JENDL-2 79TAYLOR+
12365 12365.0	0 0	2.5	940 ±2250	(102 ±24)	46.0		JENDL-2 79TAYLOR+
12409 12409.0	1	2.5	38 ± 7	(84 ±24)	13.0		JENDL-2 79TAYLOR+
12444 12444.0	0 0	2.5	860 ±2030	(98 ±24)	44.0		JENDL-2 79TAYLOR+
12525 12525.0	1	2.5	47 ±10	(84 ±24)	15.0		JENDL-2 79TAYLOR+
12562 12562.0	0 0	2.5	1320 ±4700	(120 ±36)	55.0		JENDL-2 79TAYLOR+
12670 12670.0	1	2.5	102 ±42	(84 ±24)	23.0		JENDL-2 79TAYLOR+
12720 12720.0	0 0	2.5	1770 ±9200	(138 ±54)	64.0		JENDL-2 79TAYLOR+
12750 12750.0	0 0	2.5	1710 ±8500	(136 ±52)	63.0		JENDL-2 79TAYLOR+
12805 12805.0	1	2.5	42 ± 9	(84 ±24)	14.0		JENDL-2 79TAYLOR+
12840 12840.0	1	2.5	69 ±21	(84 ±24)	19.0		JENDL-2 79TAYLOR+
12922 12922.0	0 0	2.5	1140 ±3400	(112 ±28)	52.0		JENDL-2 79TAYLOR+
12975 12975.0	1	2.5	47 ±10	(84 ±24)	15.0		JENDL-2 79TAYLOR+
13103 13103.0	1	2.5	124 ±60	(84 ±24)	25.0		JENDL-2 79TAYLOR+
13149 13149.0	0 0	2.5	980 ±2400	(104 ±24)	47.0		JENDL-2 79TAYLOR+
13210 13210.0	0 0	2.5	3450 ±43000	(84 ±24)	41.0		JENDL-2 79TAYLOR+
13242 13242.0	0 0	2.5	900 ±2140	(100 ±24)	45.0		JENDL-2 79TAYLOR+
13315 13315.0	1	2.5	210 ±170	(84 ±24)	30.0		JENDL-2 79TAYLOR+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-20	0	0.5	163	49.5		GT = 212.5 COM= M-L-B-W	JENDL-2
218.6 218.6 218.6 ± 0.2	1 1	0.5 1.0	0.8 0.6	46.0 80.0		GT = 46.8 GT = 80.6 WGN= 1.80 ± 0.1 WGO= 0.1217± 0.0068	JENDL-2 ENDF-B-4 71TELLIER
235.0 235.0 235.0 ± 0.2	1 1	0.5 1.0	0.8 0.53333	46.0 80.0		GT = 46.8 GT = 80.533 WGN= 1.60 ± 0.1 WGO= 0.1044± 0.0065	JENDL-2 ENDF-B-4 71TELLIER
636.4 636.4 636.4 ± 0.6	1 1	0.5 1.0	1.5 1.0	46.0 80.0		GT = 47.5 GT = 81.0 WGN= 3.00 ± 0.5 WGO= 0.1199± 0.0198	JENDL-2 ENDF-B-4 71TELLIER
956.8 956.8 956.8 ± 1.0	1 1	0.5 1.0	1.8 1.2	46.0 80.0		GT = 47.8 GT = 81.2 WGN= 3.60 ± 0.8 WGO= 0.1164± 0.0258	JENDL-2 ENDF-B-4 71TELLIER
1119.5 1119.5 1119.5 ± 1.0	1 1	0.5 1.0	1.45 0.96667	46.0 80.0		GT = 7.45 GT = 80.967 WGN= 2.90 ± 0.6 WGO= 0.0867± 0.0178	JENDL-2 ENDF-B-4 71TELLIER
1485.0 1485.0 1485.0 ± 2.0	1 1	0.5 1.0	1.0 0.66667	46.0 80.0		GT = 47.0 GT = 80.667 WGN= 2.00 ± 0.5 WGO= 0.0519± 0.0130	JENDL-2 ENDF-B-4 71TELLIER
1687.6 1687.0 1685 ±10 1687.6 ± 2.0	0 0	0.5 0.5	50.0 60.0 181 ±73	78.0 80.0		GT = 128.0 GT = 140.0 CNO= 4.4 ± 1.8 WGN= 100 ±10 WGO= 2.434± 0.243	JENDL-2 ENDF-B-4 68KARZHAYINA+ 71TELLIER
2528.5 2528.5 2539 ±14 2528.5 ± 2.5	0 0	0.5 0.5	9520.0 9700.0 12000 ±2000	78.0 80.0		GT = 9598.0 GT = 9780.0 CNO= 238 ±40 WGN= 19040 ±500 WGO= 378.65 ± 9.94	JENDL-2 ENDF-B-4 68KARZHAYINA+ 71TELLIER
2636.8 2636.8 2636.8 ± 3.0	1 1	0.5 1.0	12.0 13.333	60.0 80.0		GT = 72.0 GT = 93.333 WGN= 40 ±15 WGO= 0.7790± 0.2921	JENDL-2 ENDF-B-4 71TELLIER
2632 ± 1	1		^R 12 ± 1		10 ± 1.5		77MUSGROVE+
2767.0 2767 ± 3	1	1.0	41.667	80.0		GT = 121.67 WGN= 125 ±40 WGO= 2.376± 0.760	ENDF-B-4 71TELLIER
3271.0 3267 ± 3	1 1	0.5)	22.3 ^R 22 ± 5	46.0	15 ± 2	GT = 68.3	JENDL-2 77MUSGROVE+
3382.0 3377 ± 3	0 0	0.5)	300.0 (300)	43.0 43 ±10	38 ± 4	GT = 343.0	JENDL-2 77MUSGROVE+
3996.0 3992 ±28 3989 ± 3	0 0	0.5)	780.0 780 ±400 (780)	50.0 50 ± 6	47 ± 5	GT = 830.0 CNO= 12 ± 6	JENDL-2 68KARZHAYINA+ 77MUSGROVE+
4145.0 4145.0 4145 ± 5	1 1	0.5 1.0	42.2 3.6667	46.0 80.0		GT = 88.2 GT = 83.667 WGN= 11 ± 4 WGO= 0.1709± 0.0621	JENDL-2 ENDF-B-4 71TELLIER
4141 ± 3	1		^R 39 ±10		22 ± 3		77MUSGROVE+
4510.0 4502 ± 2	1 1	0.5	1.87 ^R 1.8 ± 0.3	46.0	1.8 ± 0.3	GT = 47.87	JENDL-2 77MUSGROVE+
4532.0 4532.0 4547 ±34 4532 ± 5	0 0	0.5 0.5	7530.0 7700.0 8300 ±830	44.0 80.0		GT = 7574.0 GT = 7780.0 CNO= 123 ±12 WGN= 15060 ±700 WGO= 223.71 ±10.40	JENDL-2 ENDF-B-4 68KARZHAYINA+ 71TELLIER
4522 ± 2	0		^R 7500 ±1000	44 ± 5	44 ± 5		77MUSGROVE+
4948.0 4948 ± 5	1	1.0	70.0	80.0		GT = 150.0 WGN= 210 ±40 WGO= 2.985± 0.569	ENDF-B-4 71TELLIER
5063.0 5052 ± 3	1	1.5	35.0	46.0	40 ± 4	GT = 81.0	JENDL-2 77MUSGROVE+
5156.0 5144 ± 3	1	1.5	48.0	46.0	47 ± 5	GT = 94.0	JENDL-2 77MUSGROVE+
5426.0 5426.0 5426 ± 6	1 1	1.5 1.0	55.0 73.333	45.0 80.0		GT = 100.0 GT = 163.33 WGN= 220 ±30 WGO= 2.987± 0.407	JENDL-2 ENDF-B-4 71TELLIER
5412 ± 3	1	1.5	(110)	45 ±10	50 ± 6		77MUSGROVE+
5491.0 5491.0 5533 ±45 5491 ± 6	0 0	0.5 0.5	3255.0 3500.0 4550 ±600	41.0 80.0		GT = 3306.0 GT = 3580.0 CNO= 61 ± 8 WGN= 6530 ±200 WGO= 88.12 ± 2.70	JENDL-2 ENDF-B-4 68KARZHAYINA+ 71TELLIER
5475 ± 2	0		(3500)	41 ± 5	41 ± 5		77MUSGROVE+
5689.0 5669 ± 6	1	1.0	73.333	80.0		GT = 163.33 WGN= 220 ±30 WGO= 2.922± 0.398	ENDF-B-4 71TELLIER

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
5958.0 5943 ± 3	1 1	0.5	4.0 4 ± 1	46.0	3.7 ± 0.8	GT = 50.0	JENDL-2 77MUSGROVE+
5982.0 5982.0 6315 ± 6 5982 ± 6 5967 ± 3	0 0	0.5	1393.0 1393.0 1000 ± 1000 1393)	45.0 80.0 45 ± 5	44 ± 5	GT = 1436.0 GT = 1473.0 GNO = 13 ± 13 WGN = 2785 ± 150 WGO = 36.01 ± 1.94	JENDL-2 ENDF-B-4 68KARZHAYINA+ 71TELLIER 77MUSGROVE+
6236.0 6220 ± 4	1 1	1.5	78.5 (1.5)	46.0	58 ± 6	GT = 124.5	JENDL-2 77MUSGROVE+
6927.0 6927 ± 7 6908 ± 4	0 0	0.5	525.0 525)	53.0 53 ± 8	47 ± 5	GT = 578.0 WGN = 1050 ± 300 WGO = 12.62 ± 3.60	JENDL-2 71TELLIER 77MUSGROVE+
6955.0 6936 ± 4	1 1	0.5	29.6 29 ± 8	46.0	18 ± 3	GT = 75.6	JENDL-2 77MUSGROVE+
7246.0 7245 ± 8 7228 ± 4	0 0	0.5	500.0 500)	50.0 50 ± 8	45 ± 5	GT = 550.0 WGN = 1000 ± 300 WGO = 11.75 ± 3.52	JENDL-2 71TELLIER 77MUSGROVE+
8261.0 8261 ± 8 8236 ± 4	0 0	0.5	500.0 500)	34.0 34 ± 8	32 ± 4	GT = 534.0 WGN = 1000 ± 300 WGO = 11.00 ± 3.30	JENDL-2 71TELLIER 77MUSGROVE+
8423.0 8423 ± 9 8395 ± 4	0 0	0.5	1900.0 1900)	47.0 47 ± 6	45 ± 5	GT = 1947.0 WGN = 3800 ± 400 WGO = 41.41 ± 4.36	JENDL-2 71TELLIER 77MUSGROVE+
8806.0 8806 ± 9 8780 ± 4	1 1	1.5	250.0 500)	37.0 37 ± 6	64 ± 7	GT = 287.0 WGN = 1000 ± 300 WGO = 10.56 ± 3.20	JENDL-2 71TELLIER 77MUSGROVE+
9019.0 8990 ± 4	0 0	0.5	118.3	78.0	47 ± 5	GT = 196.3	JENDL-2 77MUSGROVE+
9840.0 9807 ± 4	1 1	1.5	250.0 500)	40.0 40 ± 10	70 ± 8	GT = 290.0	JENDL-2 77MUSGROVE+
9885.0 9887 ± 110 9885 ± 10 9850 ± 4	0 0	0.5	11780.0 12000 ± 3500 1200 ± 3000	64.0 64 ± 7	64 ± 7	GT = 11844.0 GNO = 120 ± 35 WGN = 23550 ± 2500 WGO = 236.97 ± 25.15	JENDL-2 68KARZHAYINA+ 71TELLIER 77MUSGROVE+
10153.0 10118 ± 5	1 1	1.5	500.0 1000)	43.0 43 ± 10	78 ± 8	GT = 543.0	JENDL-2 77MUSGROVE+
10295.0 10260 ± 5	1 1	0.5	25.0 20 ± 5	46.0	16 ± 2	GT = 71.0	JENDL-2 77MUSGROVE+
10961.0 10961 ± 12 10925 ± 5	0 0	0.5	10500.0 10500)	43.0 43 ± 5	43 ± 5	GT = 10543.0 WGN = 21000 ± 2000 WGO = 200.58 ± 18.10	JENDL-2 71TELLIER 77MUSGROVE+
11140.0 11100 ± 5	1 1	1.5	46.0 (1.5)	46.0	46 ± 5	GT = 92.0	JENDL-2 77MUSGROVE+
11261.0 11220 ± 5	1	0.5	65.0	46.0	27 ± 4	GT = 111.0	JENDL-2 77MUSGROVE+
11485.0 11443 ± 5	1	0.5	166.0	46.0	36 ± 4	GT = 212.0	JENDL-2 77MUSGROVE+
12837.0 12865 ± 6	1 1	1.5	483.0 (1.5)	46.0	84 ± 9	GT = 529.0	JENDL-2 77MUSGROVE+
13450.0 13395 ± 6	1	1.5	52.4	46.0	49 ± 6	GT = 98.4	JENDL-2 77MUSGROVE+
13524.0 13524 ± 15 13480 ± 7	0 0	0.5	4200.0 4200)	85.0 86 ± 10	84 ± 9	GT = 4286.0 WGN = 8400 ± 2000 WGO = 72.23 ± 17.20	JENDL-2 71TELLIER 77MUSGROVE+
13663.0 13663 ± 15 13600 ± 10	0 0	0.5	89225.0 90000 ± 10000	235.0 235 ± 30	234 ± 30	GT = 89460.0 WGN = 178450 ± 18000 WGO = 1526.7 ± 154.0	JENDL-2 71TELLIER 77MUSGROVE+
14265.0 14205 ± 8	1	0.5	146.0	46.0	35 ± 4	GT = 192.0	JENDL-2 77MUSGROVE+
14491.0 14430 ± 8	1	1.5	68.5	46.0	55 ± 7	GT = 114.5	JENDL-2 77MUSGROVE+
14994.0 14930 ± 8	1 1	0.5	12.8 13 ± 6	46.0	10 ± 5	GT = 58.8	JENDL-2 77MUSGROVE+
15070.0 15005 ± 10	1 1	1.5	130.3 (1.5)	46.0	68 ± 8	GT = 176.3	JENDL-2 77MUSGROVE+
15461.0 15461 ± 15 15390 ± 10	0 0	0.5	12850.0 12850)	43.0 43 ± 8	43 ± 8	GT = 12893.0 WGN = 25700 ± 3000 WGO = 206.69 ± 24.13	JENDL-2 71TELLIER 77MUSGROVE+
15659.0	1	1.5	62.5	46.0		GT = 108.5	JENDL-2

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEDUS	REFERENCE
15590 ±10					53 ± 6		77MUSGROVE+
15935.0 15965 ±20	1 1	1.5 (1.5)	200.0 { 400 }	55.0 55 ±10	87 ± 9	GT = 255.0	JENDL-2 77MUSGROVE+
16258.0 16258 ±20 16190 ±10	0 0	0.5	54200.0 { 54100 }	91.0 91 ±20	91 ±20	GT = 54291.0 WGN= 108400 ±10000 WGO= 850.15 ±78.43	JENDL-2 71TELLIER 77MUSGROVE+
16363.0 16290 ±10	1 1	1.5 (1.5)	300.0 { 600 }	48.0 48 ±10	82 ± 8	GT = 348.0	JENDL-2 77MUSGROVE+
17074.0 17074 ±20 17000 ±10	1 1	1.5 (1.5)	1315.0 { 2630 }	48.0 46 ± 5	89 ± 9	GT = 1361.0 WGN= 5260 ±1000 WGO= 40.26 ± 7.65	JENDL-2 71TELLIER 77MUSGROVE+
17360.0 17280 ±10	1	1.5	71.5	46.0	56 ± 7	GT = 117.5	JENDL-2 77MUSGROVE+
18085.0 18000 ±10	1	0.5	307.0	46.0	40 ± 7	GT = 353.0	JENDL-2 77MUSGROVE+
19093.0 19000 ±10	1	1.5	236.0	46.0	77 ± 8	GT = 282.0	JENDL-2 77MUSGROVE+
19274.0 19180 ±10	1	0.5	60.0	46.0	26 ± 6	GT = 106.0	JENDL-2 77MUSGROVE+
19365.0 19365 ±20 19260 ±10	0 0	0.5	46500.0 { 45600 }	78.0 78 ±15	78 ±15	GT = 46578.0 WGN= 93000 ±10000 WGO= 668.30 ±71.86	JENDL-2 71TELLIER 77MUSGROVE+
19627.0 19530 ±10	1	0.5	35.0	46.0	20 ± 7	GT = 81.0	JENDL-2 77MUSGROVE+
19960.0 19860 ±10	1	1.5	82.5	46.0	53 ± 9	GT = 108.5	JENDL-2 77MUSGROVE+
20226.0 20125 ±10	1 1	1.5 (1.5)	139.0	78.0	100 ±15	GT = 217.0	JENDL-2 77MUSGROVE+
20479.0 20375 ±10	1	1.5	54.8	46.0	50 ±10	GT = 100.8	JENDL-2 77MUSGROVE+
20660.0 20555 ±10	1	1.5	146.0	46.0	70 ±10	GT = 192.0	JENDL-2 77MUSGROVE+
20831.0 20725 ±10	1	0.5	39.0	46.0	21 ± 8	GT = 85.0	JENDL-2 77MUSGROVE+
20903.0 20795 ±10	1	0.5	46.0	46.0	23 ± 6	GT = 92.0	JENDL-2 77MUSGROVE+
21250.0 21250 ±25 21150 ±10	0 0	0.5	24380.0 { 24380 }	96.0 96 ±15	96 ±15	GT = 24478.0 WGN= 46760 ±5000 WGO= 334.49 ±34.30	JENDL-2 71TELLIER 77MUSGROVE+
21532.0 21420 ±10	1	0.5	377.0	46.0	41 ± 7	GT = 423.0	JENDL-2 77MUSGROVE+
21729.0 21615 ±10	1	0.5	60.0	46.0	26 ± 7	GT = 106.0	JENDL-2 77MUSGROVE+
21805.0 21690 ±10	1 1	1.5 (1.5)	147.0	78.0	102 ±12	GT = 225.0	JENDL-2 77MUSGROVE+
22090.0 22090 ±25 21955 ±10	0 0	0.5	11975.0 { 12000 }	48.0 48 ± 8	47 ± 8	GT = 12023.0 WGN= 23950 ±2500 WGO= 161.14 ±16.82	JENDL-2 71TELLIER 77MUSGROVE+
22490.0 22370 ±10	1 1	1.5 (1.5)	181.0	78.0	109 ±13	GT = 259.0	JENDL-2 77MUSGROVE+
22637.0 22515 ±10	1	0.5	483.0	46.0	42 ± 7	GT = 529.0	JENDL-2 77MUSGROVE+
22864.0 22740 ±10	1	1.5	146.0	46.0	70 ± 9	GT = 192.0	JENDL-2 77MUSGROVE+
23413.0 23285 ±10	1	1.5	280.0	46.0	79 ±10	GT = 326.0	JENDL-2 77MUSGROVE+
23872.0 23740 ±10	1	1.5	377.0	46.0	82 ±11	GT = 423.0	JENDL-2 77MUSGROVE+
24130.0 23995 ±10	1 1	1.5 (1.5)	260.0	78.0	120 ±18	GT = 338.0	JENDL-2 77MUSGROVE+
24305.0 24170 ±10	1	0.5	86.0	46.0	30 ± 8	GT = 132.0	JENDL-2 77MUSGROVE+
24437.0 24300 ±10	1	0.5	46.0	46.0	23 ± 7	GT = 92.0	JENDL-2 77MUSGROVE+
24518.0 24380 ±10	1	1.5	74.9	46.0	57 ± 9	GT = 120.9	JENDL-2 77MUSGROVE+
24560.0 24422 ±10	1	0.5	483.0	46.0	42 ± 7	GT = 529.0	JENDL-2 77MUSGROVE+
24618.0	1	0.5	35.4	46.0		GT = 81.4	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
24480 ±10					20 ± 6		77MUSGROVE+
24795.0 24655 ±10	1	0.5	35.4	46.0		GT = 81.4	JENDL-2 77MUSGROVE+
24870.0 24730 ±10	1	1.5	65.4	46.0		GT = 111.4	JENDL-2 77MUSGROVE+
25137.0 25137 ±30	0	0.5	4200.0	67.0		GT = 4267.0 WGN= 8400 ±2000 WGO= 52.88 ±12.62	JENDL-2 71TELLIER
24985 ±10	0		(4200)	67 ±10	66 ±10		77MUSGROVE+
25426.0 25280 ±10	1	1.5	65.4	46.0		GT = 111.4	JENDL-2 77MUSGROVE+
25546.0 25400 ±10	1	1.5	1012.0	46.0		GT = 1058.0	JENDL-2 77MUSGROVE+
25768.0 25620 ±10	1	1.5	68.4	46.0		GT = 114.4	JENDL-2 77MUSGROVE+
25849.0 25700 ±10	1	1.5	339.0	46.0		GT = 385.0	JENDL-2 77MUSGROVE+
25905.0 25905 ±30	0	0.5	25670.0	48.0		GT = 25718.0 WGN= 51340 ±6000 WGO= 318.98 ±37.28	JENDL-2 71TELLIER
25760 ±10	0		(25700)	48 ± 7	48 ± 7		77MUSGROVE+
26606.0 26450 ±10	1 1	1.5 (1.5)	143.0	78.0		GT = 221.0	JENDL-2 77MUSGROVE+
26702.0 26702 ±30	0	0.5	21050.0	185.0		GT = 21235.0 WGN= 42100 ±5000 WGO= 257.64 ±30.60	JENDL-2 71TELLIER
26580 ±10	0		(21050)	185 ±25	183 ±22		77MUSGROVE+
27473.0 27310 ±10	1 1	1.5 (1.5)	185.0	78.0		GT = 243.0	JENDL-2 77MUSGROVE+
27896.0 27730 ±10	1	1.5	82.0	46.0		GT = 128.0	JENDL-2 77MUSGROVE+
28390.0 28220 ±10	1	1.5	475.0	78.0		GT = 553.0	JENDL-2 77MUSGROVE+
29895.0 29710 ±10	1	1.5	212.0	78.0		GT = 290.0	JENDL-2 77MUSGROVE+
30402.0 30210 ±10	1	1.5	659.0	46.0		GT = 705.0	JENDL-2 77MUSGROVE+
30570.0 30570 ±35	0	0.5	364650	435.0		GT = 365065 WGN= 729300 ±100000 WGO= 4171.2 ±571.9	JENDL-2 71TELLIER
30610 ±30	0		(364650)	435 ±50	435 ±50		77MUSGROVE+
31050.0 31050 ±35	0	0.5	29000.0	86.0		GT = 29086.0 WGN= 58000 ±10000 WGO= 329.15 ±58.75	JENDL-2 71TELLIER
30740 ±10	0		(29000)	86 ±10	86 ±10		77MUSGROVE+
31470.0 31270 ±10	1	1.5	377.0	46.0		GT = 423.0	JENDL-2 77MUSGROVE+
31661.0 31458 ±10	1	1.5	1660.0	78.0		GT = 1738.0	JENDL-2 77MUSGROVE+
31859.0 31655 ±10	1	1.5	582.0	78.0		GT = 640.0	JENDL-2 77MUSGROVE+
32107.0 31940 ±10	1	1.5	165.0	78.0		GT = 243.0	JENDL-2 77MUSGROVE+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	RMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-5.0	0	3.0	243	66		GT = 308 COM= M-L-B-W	JENDL-2
-5.0	0	3.5	152.6	85.0		GT = 237.6	JENDL-1
-5.0	0	3.0	190.36	79.98		GT = 270.34	ENDF-B-4 71CAUVIN+
-5	0	3					
55.3	0	4.0	36.6	71.2		GT = 107.8	JENDL-2
55.3	0	4.0	36.6	75.4		GT = 112.0	JENDL-1
55.33	0	4.0	36.711	75.0		GT = 111.71	ENDF-B-4
55.4 ± 0.2				80 ±20		WDM= 20 ± 2 WGO= 5.4 ± 0.5	68KARZHAVINA+
55.29				87 ±25		WDM= 24 ± 2	69ALVES+
54.99			^a 42 ± 3	72 ±10		GT = 136 ±20	69MIGNECO+
55	0	4					71CAUVIN+
55.37	0	4			13.6 ± 1.1	WDM=(20.2 ± 2) WM1= 42.4 ±13.1 WGO= 5.5403± .13447	71ROHR+
55.3 ± 0.05			^a 41.2 ± 1			GT = 115 ±15	71TELLIER
127.3	0	3.0	377.0	67.3		GT = 444.3	JENDL-2
127.3	0	3.0	377.0	66.3		GT = 443.3	JENDL-1
127.4	0	3.0	388.57	70.0		GT = 458.57	ENDF-B-4
127.4 ± 0.4				94 ±14		GT = 450 ±150 WDM= 180 ±30 WGO= 32 ± 5	68KARZHAVINA+
127.1		3	450 ±45	70 ±60		WDM= 195 ±20	69ALVES+
126.5			^a 350 ±95	83 ± 7	33.5 ± 2.5	GT = 520 ±40	69MIGNECO+
127	0	3				WDM=(180 ±30)	71CAUVIN+
127.30	0	3			25.0 ± 1.0	WM1= 28.0 ± 1.4 WGO= 29.248± 1.7726	71ROHR+
127.3 ± 0.1			^a 330 ±20			GT = 550 ±50	71TELLIER
135.4	0	3.0	64.0	72.8		GT = 136.8	JENDL-2
135.4	0	3.0	64.0	65.4		GT = 129.4	JENDL-1
135.5	0	3.0	64.0	66.0		GT = 129.0	ENDF-B-4
135.4 ± 0.4				70 ±23		WDM= 31 ± 5 WGO= 5.3 ± 0.9	68KARZHAVINA+
135.2				75 ±30		WDM= 43 ± 4	69ALVES+
134.5					14.5 ± 1	GT = 160 ±25	69MIGNECO+
135	0	3					71CAUVIN+
135.40	0	3			14.9 ± 1.1	WDM=(31 ± 5)	71ROHR+
135.4 ± 0.1			^a 56 ± 5			WM1= 28.6 ± 6.3 WGO= 4.8128± 0.4297	71TELLIER
143.9			^a 800	68 ± 8		GT = 115 ±10	69MIGNECO+
158.7	0	4.0	924.4	76.4		GT = 1000.8	JENDL-2
158.7	0	4.0	1170.0	75.6		GT = 1245.8	JENDL-1
158.9	0	4.0	977.78	76.0		GT = 1053.8	ENDF-B-4
159.0 ± 0.5				83 ±13		GT = 1300 ±500 WDM= 600 ±50 WGO= 85 ± 9	68KARZHAVINA+
158.5		4	1070 ±80			WDM= 600 ±50	69ALVES+
159		4				GT = 1100 ±100	71CAUVIN+
159.00	0	4			39.7 ± 1.7	WDM=(600 ±60)	71ROHR+
158.7 ± 0.1			^a 1040 ±50			WM1= 42.5 ± 1.7 WGO= 82.555± 3.969	71TELLIER
179.5	0	3.0	657.0	88.1		GT = 745.1	JENDL-2
179.5	0	3.0	657.0	86.9		GT = 743.9	JENDL-1
179.5	0	3.0	657.14	74.0		GT = 731.14	ENDF-B-4
179.7 ± 0.5				61 ± 9		WDM= 320 ±50 WGO= 48 ± 7	68KARZHAVINA+
179.4		3				WDM= 340 ±20	69ALVES+
178.4			^a 438 ±30	72 ± 7		GT = 790 ±80	69MIGNECO+
179	0	3					71CAUVIN+
179.50	0	3			34.0 ± 2.6	WDM=(320 ±50)	71ROHR+
179.5 ± 0.2			^a 575 ±25			WM1= 36.0 ± 2.7 WGO= 42.918± 1.866	71TELLIER
186.6	0	4.0	1333.0	77.1		GT = 1410.1	JENDL-2
186.6	0	4.0	1333.0	76.4		GT = 1409.4	JENDL-1
186.6	0	4.0	1377.8	76.0		GT = 1453.8	ENDF-B-4
187.0 ± 0.6				89 ±13		GT = 1500 ±500 WDM= 650 ±50 WGO= 124 ± 8	68KARZHAVINA+
186.2		4	1540 ±100			WDM= 660 ±60	69ALVES+
185.4			^a 1130 ±70	82 ± 8		GT = 1620 ±160	69MIGNECO+
187	0	4			41.0 ± 1.8	WDM=(650 ±50)	71CAUVIN+
185.50	0	4				WM1= 43.0 ± 1.8 WGO= 109.81 ± 7.3206	71ROHR+
186.6 ± 0.2			^a 1500 ±100			GT = 1550 ±100	71TELLIER
226.2	1	3.5	0.28	77.0		GT = 77.28	JENDL-2
226.2	1	3.5	0.28	85.0		GT = 85.28	JENDL-1
226.2 ± 0.2			^a 0.28 ± 0.1			WGO= .018617±.006649	71TELLIER
306.2	0	4.0	684.4	71.3		GT = 755.7	JENDL-2
306.2	0	4.0	684.4	71.8		GT = 756.2	JENDL-1
306.2	0	4.0	684.44	72.0		GT = 756.44	ENDF-B-4
306 ± 1				67 ±10		WDM= 355 ±70 WGO= 41 ± 8	68KARZHAVINA+
305.3		4				WDM= 590 ±80	69ALVES+
305	0	4			36.3 ± 1.9	WDM=(355 ±70)	71CAUVIN+
306.20	0	4				WM1= 40.4 ± 2.3	71ROHR+

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HW6 (MILLI-EV)	MISCELLANEOUS	REFERENCE
306.2 ± 0.3			^a 770 ±40			WGO = 44.004 ± 2.2859 GT = 960 ±100	71TELLIER
324.4	0	3.0	925.7	55.5		GT = 981.2	JENDL-2
324.4	0	3.0	925.7	58.5		GT = 984.2	JENDL-1
324.4 ± 1	0	3.0	934.86	59.0		GT = 993.86 WGM = 215 ±60 WGO = 24 ± 8	ENDF-B-4 68KARZHAVINA+
322.6			^a 88 ± 9	87 ±19	22 ± 2		69MIDNECO+
324		3					71CAUVIN+
324.40	0	3			22.9 ± 3.2	WGM = (215 ±60) WMI = 25.6 ± 3.4	71ROHR+
324.4 ± 0.3			^a 810 ±40			WGO = 44.972 ± 2.2209 GT = 1170 ±100	71TELLIER
337.1	0	4.0	684.4	54.5		GT = 736.9	JENDL-2
337.1	0	4.0	684.4	56.5		GT = 740.9	JENDL-1
337.2 ± 1	0	4.0	666.67	57.0		GT = 723.67 WGM = 260 ±40 WGO = 28 ± 5	ENDF-B-4 68KARZHAVINA+
338		4					71CAUVIN+
337.00	0	4			28.4 ± 1.6	WGM = (260 ±40) WMI = 31.8 ± 1.8	71ROHR+
337.1 ± 0.3			^a 770 ±30			WGO = 41.938 ± 1.634 GT = 785	71TELLIER
350.3	0	3.0	902.9	83.7		GT = 986.6	JENDL-2
350.3	0	4.0	702.2	67.0		GT = 769.2	JENDL-1
350.4 ± 1.5	0	3.0	880.0	85.0		GT = 965.0 WGM = 300 ±70 WGO = 32 ± 8	ENDF-B-4 68KARZHAVINA+
350		3					71CAUVIN+
350.30	0	4			33.5 ± 1.8	WGM = (300 ±70) WMI = 37.7 ± 2.3	71ROHR+
350.3 ± 0.3			^a 790 ±30			WGO = 42.209 ± 1.6029 GT = 1020 ±100	71TELLIER
401.3	0	3.0	1234.0	92.1		GT = 1326.1	JENDL-2
401.3	0	4.0	950.0	71.8		GT = 1031.8	JENDL-1
401.3 ± 1.5	0	3.5	1088.0	81.0		GT = 1169.0 WGM = 520 ±100 WGO = 52 ±10	ENDF-B-4 68KARZHAVINA+
401		3					71CAUVIN+
401.30	0	4			37.5 ± 1.9	WGM = (520 ±100) WMI = 40.4 ± 2.1	71ROHR+
401.3 ± 0.4			^a 1080 ±50			WGO = 53.912 ± 2.4959 GT = 1200 ±100	71TELLIER
408.0	0	3.0	571.4	77.3		GT = 648.7	JENDL-2
408.0	0	3.0	571.4	76.2		GT = 649.6	JENDL-1
408.0 ± 1.5	0	3.0	571.43	69.0		GT = 640.43 WGM = 230 ±40 WGO = 23 ± 4	ENDF-B-4 68KARZHAVINA+
408		3					71CAUVIN+
407.90	0	3			29.8 ± 1.5	WGM = (230 ±40) WMI = 34.2 ± 1.9	71ROHR+
408.0 ± 0.4			^a 500 ±30			WGO = 24.754 ± 1.4852 GT = 660 ±60	71TELLIER
446.3	0	3.0	2240.0	91.6		GT = 2331.6	JENDL-2
446.3	0	4.0	1742.0	71.5		GT = 1813.5	JENDL-1
446.3 ± 2	0	3.5	1960.0	80.0		GT = 2040.0 WGM = 900 ±80 WGO = 85 ± 8	ENDF-B-4 68KARZHAVINA+
446.3		3		73 ±11			69ALVES+
446		4					71CAUVIN+
446.10	0	4			38.5 ± 2.2	WGM = (900 ±80) WMI = 40.2 ± 2.2	71ROHR+
446.3 ± 0.4			^a 1960 ±50			WGO = 82.777 ± 2.3668 GT = 1860 ±100	71TELLIER
506.8	1	3.0	23.0	85.0		GT = 108.0	JENDL-2
506.8	1	3.5	20.0	85.0		GT = 105.0	JENDL-1
506.8 ± 2	0	3.5	20.0	75.0		GT = 95.0 WGM = 10 ± 2 WGO = 0.9 ± 0.2	ENDF-B-4 68KARZHAVINA+
507		(3)					71CAUVIN+
506.80					7.9 ± 0.6	WGM = 9.9 ± 0.7	71ROHR+
523.3	0	4.0	217.0	63.9		GT = 280.9	JENDL-2
523.3	0	3.0	192.0	94.8		GT = 286.9	JENDL-1
523.3 ± 2.5	0	3.5	220.0	83.0		GT = 303.0 WGM = 84 ±16 WGO = 7.3 ± 1.4	ENDF-B-4 68KARZHAVINA+
524			^a 205 ±40	82 ±18	29.5 ± 3	WGM = 120 ±10	69ALVES+
523.4		4					69MIDNECO+
520.5		(3)					71CAUVIN+
524	0	(3)			27.8 ± 1.5	WGM = (84 ±16) WMI = 41.5 ± 5.6	71ROHR+
523.00			^a 245 ±10			WGO = 10.71 ± 0.43714 GT = 340 ±20	71TELLIER
555.6	0	4.0	104.0	56.5		GT = 160.5	JENDL-2
555.6	1	4.0	62.2	88.9		GT = 151.1	JENDL-1
555.6 ± 3	0	4.0	62.222	75.0		GT = 137.22 WGM = 35 ± 7 WGO = 3.0 ± 0.6	ENDF-B-4 68KARZHAVINA+
555		4			21 ± 2	WGM = 58 ± 5	69ALVES+
555.0							69MIDNECO+
552.3							71CAUVIN+
555					20.6 ± 2.2	WGM = (35 ± 7) WMI = 50.0 ± 27.9	71ROHR+
553.30			^a 117 ± 5			WGO = 4.9637 ± .21212 GT = 240 ±25	71TELLIER
555.6 ± 0.5							
576.2	0	3.0	7.8	128.0		GT = 133.8	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
576.2 576.2 ± 3 576 576.10 576.2 ± 0.6	1 0	3.5 3.0	5.4 6.7429	86.4 75.0		GT = 91.6 GT = 81.743 WGM= 71 ±14 WGO= 6.1 ± 1.2 WGM= 3.4 ± 0.3 WGO= 0.22496±0.02083	JENDL-1 ENDF-B-4 68KARZHAVINA+ 71CAUVIN+ 71ROHR+ 71TELLIER
657.6 657.6 ± 4 658 657.7 658 658.30 657.6 ± 0.7	0 0	3.0 3.0	480.0 480.0	91.1 86.4 70 ±10		GT = 571.1 GT = 566.4 WGM= 290 ±50 WGO= 22 ± 4 WGM= 215 ±15 GT = 700 ±150 WGM=(290 ±50) WMI= 37.8 ± 2.2 WGO= 16.378± .58494 GT = 470 ±30	JENDL-2 JENDL-1 68KARZHAVINA+ 69ALYES+ 71CAUVIN+ 71ROHR+ 71TELLIER
708.3 708.3 706 ± 4 708.00 708.3 ± 0.7	0 0	3.0 3.0	388.6 388.6	68.6 67.4		GT = 457.2 GT = 456.0 WGM= 187 ±40 WGO= 14 ± 3 WGM=(187 ±40) WMI= 29.5 ± 2.1 WGO= 12.775± .66362 GT = 425 ±40	JENDL-2 JENDL-1 68KARZHAVINA+ 71ROHR+ 71TELLIER
778.0 778.0 775 ± 5 777.10 778.0 ± 0.8	0 0	3.5 3.5	1320.0 1320.0	85.2 85.8 76 ±11		GT = 1406.2 GT = 1405.8 WGM= 580 ±80 WGO= 42 ± 6 WGM=(580 ±80) WMI= 42.9 ± 2.5 WGO= 47.324± 1.4341 GT = 1580 ±100	JENDL-2 JENDL-1 68KARZHAVINA+ 71ROHR+ 71TELLIER
803.2 803.2 806 ± 5 803.50 803.2 ± 0.8	0 1	3.5 3.5	15.8 15.8	109.0 85.0		GT = 124.8 GT = 100.8 WGM= 4 ± 1 WGO= 0.28 ± 0.07 WGM= 8.3 ± 0.8 WGO= 0.5575±5.292-2	JENDL-2 JENDL-1 68KARZHAVINA+ 71ROHR+ 71TELLIER
818.4 818.4 822 ± 5 819.20 818.4 ± 0.8	0 1	3.5 3.5	10.5 10.5	63.0 85.0		GT = 73.5 GT = 95.5 WGM= 3.4 ± 0.7 WGO= 0.25 ± 0.05 WGM= 5.0 ± 0.5 WGO= .36703±.034956	JENDL-2 JENDL-1 68KARZHAVINA+ 71ROHR+ 71TELLIER
839.8 839.8 840 ± 6 840.10 839.8 ± 0.8	0 0	3.5 3.5	810.0 810.0	75.4 74.2		GT = 885.4 GT = 884.2 WGM= 480 ±70 WGO= 33 ± 5 WGM=(480 ±70) WMI= 37.1 ± 2.0 WGO= 27.951± 1.0362 GT = 870 ±40	JENDL-2 JENDL-1 68KARZHAVINA+ 71ROHR+ 71TELLIER
852.6 852.6 852.70 852.6 ± 0.9	0 1	3.5 3.5	25.8 25.8	81.6 85.0		GT = 107.4 GT = 110.8 WGM= 13.0 ± 1.3 WGO= 0.88358±.044522	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
971.5 971.5 971.30 971.5 ± 1.0	0 0	3.5 3.5	59.2 59.2	78.8 85.0		GT = 138.0 GT = 144.2 WGO= 1.8993±0.09625	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
984.5 984.5 984.00 984.5 ± 1.0	0 1	3.5 3.5	500.0 500.0	73.4 85.0		GT = 573.4 GT = 585.0 WGO= 15.935± .79677 GT = 900 ±100	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1008.3 1007.7	1	3.5	193.0	85.0		GT = 278.0	JENDL-2 71ROHR+
1027.4 1027.4 1028.2 1027.4 ± 1.0	0 1	3.5 3.5	250.0 250.0	88.9 85.0		GT = 338.9 GT = 335.0 WGO= 7.7996±0.31198	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1082.4 1082.4 1080.7 1082.4 ± 1	0 1	3.5 3.5	100.0 100.0	92.3 85.0		GT = 192.3 GT = 195.0 WGO= 3.0395± .30395 GT = 600 ±100	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1125.0 1125.0 1124.7 1125.0 ± 1	0 1	3.5 3.5	500.0 500.0	67.2 85.0		GT = 567.2 GT = 585.0 WGO= 14.907± .74536 GT = 990 ±100	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1165.0 1165.0 1166.5 1165.0 ± 2.0	0 1	3.5 3.5	31.0 31.0	312.2 85.0		GT = 343.2 GT = 116.0 WGO= 0.90824±.068596	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1211.2 1211.2 1210.7 1211.2 ± 2.0	0 0	3.5 3.5	1430.0 1430.0	67.4 85.0		GT = 1497.4 GT = 1515.0 WGO= 41.089± 2.0114	JENDL-2 JENDL-1 71ROHR+ 71TELLIER

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1263.0 1263.0 1264.8 1263.0 ± 2.0	0 0	3.5 3.5	5470.0 5470.0 ^a 5470.0 ± 120.0	76.0 85.0	37.5 ± 1.6	GT = 5546.0 GT = 5555.0 WGO = 153.92 ± 3.3766	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1274.0 1274.0 1274.8 1274.0 ± 2.0	0 0	3.5 3.5	1755.0 1755.0 ^a 1755.0 ± 60.0	66.4 85.0	32.0 ± 2.8	GT = 1621.4 GT = 1640.0 WGO = 49.159 ± 1.681	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1307.0 1307.0 1307.8 1307.0 ± 2	0 0	3.5 3.5	2200.0 2200.0 ^a 2200 ± 50	70.2 85.0	34.0 ± 3.3	GT = 2270.2 GT = 2285.0 WGO = 60.853 ± 1.383 GT = 2060 ± 100	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1433.8 1433.8 1432.9 1433.8 ± 1.5	0 0	3.5 3.5	980.0 980.0 ^a 980.0 ± 50.0	61.4 85.0	28.9 ± 2.8	GT = 1041.4 GT = 1065.0 WGO = 25.881 ± 1.3205	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1462.0 1462.0 1463.2 1462.0 ± 2.0	0 1	3.5 3.5	175.0 175.0 ^a 175.0 ± 10.0	98.4 85.0	31.5 ± 2.8	GT = 273.4 GT = 260.0 WGO = 4.5768 ± 0.26153	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1472.0 1472.0 1473.5 1472.0 ± 2.0	0 1	3.5 3.5	754.0 754.0 ^a 754.0 ± 30.0	68.7 85.0	31.5 ± 3.4	GT = 822.7 GT = 839.0 WGO = 19.652 ± 0.78193	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1511.7 1511.7 1511.4 1511.7 ± 1.5	0 1	3.5 3.5	255.0 255.0 ^a 255 ± 10	72.7 85.0	28.3 ± 2.6	GT = 327.7 GT = 340.0 WGO = 6.5585 ± .2572 GT = 420 ± 100	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1558.1 1558.1 1557.6 1558.1 ± 1.5	0 1	3.5 3.5	660.0 660.0 ^a 660.0 ± 20.0	89.7 85.0	39.5 ± 3.8	GT = 749.7 GT = 745.0 WGO = 16.72 ± 0.50668	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1584.2 1584.2 1583.8 1584.2 ± 1.5	0 0	3.5 3.5	1920.0 1920.0 ^a 1920 ± 100	76.3 85.0	36.7 ± 3.2	GT = 1996.3 GT = 2005.0 WGO = 48.239 ± 2.512 GT = 2480 ± 150	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1653.8 1653.8 1654.0 1653.8 ± 2.0	0 1	3.5 3.5	945.0 945.0 ^a 945.0 ± 30.0	91.0 85.0	41.5 ± 3.9	GT = 1036.0 GT = 1030.0 WGO = 23.238 ± 0.7377	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1668.5 1668.0 1668.5 ± 2	0	3.5	3390.0 ^a 3390 ± 100	74.2	36.3 ± 3.8	GT = 3464.2 WGO = 82.892 ± 2.4481 GT = 3980 ± 150	JENDL-2 71ROHR+ 71TELLIER
1724.3 1724.3 1723.8 1724.3 ± 2.0	0 1	3.5 3.5	790.0 790.0 ^a 790.0 ± 40.0	73.4 85.0	33.6 ± 3.2	GT = 863.4 GT = 875.0 WGO = 19.025 ± .96328	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1761.0 1761.0 1759.6 1761.0 ± 2.0	0 0	3.5 3.5	1270.0 1270.0 ^a 1270.0 ± 60.0	59.5 85.0	28.4 ± 3.1	GT = 1329.5 GT = 1355.0 WGO = 30.264 ± 1.4298	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1850.0 1850.0 1849.4 1850.0 ± 2.0	0 0	3.5 3.5	2000.0 2000.0 ^a 2000.0 ± 100.0	63.8 85.0	30.9 ± 4.6	GT = 2063.8 GT = 2065.0 WGO = 46.499 ± 2.325	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1911.5 1911.5 1912.1 1911.5 ± 2.0	0 0	3.5 3.5	1510.0 1510.0 ^a 1510.0 ± 80.0	67.4 85.0	64.5 ± 5.7	GT = 1577.4 GT = 1695.0 WGO = 34.537 ± 1.8298	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
1963.0 1963.0 1961.9 1963.0 ± 2.0	0 1	3.5 3.5	120.0 120.0 ^a 120.0 ± 20.0	101.5 85.0	27.5 ± 3.8	GT = 221.5 GT = 205.0 WGO = 2.7085 ± 0.45141	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
2004.7 2004.7 2003.9 2004.7 ± 2.0	0 0	3.5 3.5	1855.0 1855.0 ^a 1855.0 ± 80.0	64.4 85.0	31.1 ± 4.0	GT = 1919.4 GT = 1940.0 WGO = 41.43 ± 1.7868	JENDL-2 JENDL-1 71ROHR+ 71TELLIER
2088.0 2088.0 2088.0 ± 2.0	0 1	3.5 3.5	460.0 460.0 ^a 460.0 ± 25.0	86.0 85.0		GT = 546.0 GT = 545.0 WGO = 10.067 ± 0.54711	JENDL-2 JENDL-1 71TELLIER
2129.0 2129.1 2129.0 ± 2.0	0 0	3.5 3.5	8400.0 8400.0 ^a 8400.0 ± 400.0	86.0 85.0		GT = 8486.0 GT = 8485.0 WGO = 182.05 ± 8.6689	JENDL-2 JENDL-1 71TELLIER
2173.0 2173.0 2173.0 ± 2.0	0 1	3.5 3.5	1280.0 1280.0 ^a 1280.0 ± 60.0	86.0 85.0		GT = 1366.0 GT = 1365.0 WGO = 27.459 ± 1.2871	JENDL-2 JENDL-1 71TELLIER
2224.6 2224.6 2224.6 ± 2.5	0 1	3.5 3.5	740.0 740.0 ^a 740.0 ± 40.0	86.0 85.0		GT = 826.0 GT = 825.0 WGO = 15.689 ± 0.84807	JENDL-2 JENDL-1 71TELLIER
2292.7 2292.7	0 1	3.5 3.5	505.0 505.0	86.0 85.0		GT = 591.0 GT = 590.0	JENDL-2 JENDL-1

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
2292.7 ± 2.5			^a 505.0 ± 30.0			WGO = 10.547 ± 0.62654	71TELLIER
2348.7	0	3.5	605.0	86.0		GT = 691.0	JENDL-2
2348.7	1	3.5	605.0	85.0		GT = 690.0	JENDL-1
2348.7 ± 2.5			^a 605.0 ± 40.0			WGO = 12.484 ± 0.82537	71TELLIER
2432.1	0	3.5	5600.0	86.0		GT = 5686.0	JENDL-2
2432.1	0	3.5	5600.0	85.0		GT = 5685.0	JENDL-1
2432.1 ± 2.5			^a 5600.0 ± 300.0			WGO = 113.55 ± 6.0832	71TELLIER
2465.5	0	3.5	1975.0	86.0		GT = 2061.0	JENDL-2
2465.5	0	3.5	1975.0	85.0		GT = 2060.0	JENDL-1
2465.5 ± 2.5			^a 1975.0 ± 100.0			WGO = 39.775 ± 2.0139	71TELLIER
2591.8	1	3.5	^a 15.6	85.0		GT = 100.6	JENDL-2
2594 ± 3	1		^a 17 ± 3		8.6 ± 0.7		77MUSGROVE+
2606.7	1	3.5	^a 9.3	85.0		GT = 94.3	JENDL-2
2611 ± 3	1		^a 9 ± 2		4.2 ± 0.4		77MUSGROVE+
2631.7	0	3.5	2840.0	130.0		GT = 2970.0	JENDL-2
2631.7	0	3.5	2840.0	85.0		GT = 2925.0	JENDL-1
2631.7 ± 3.0			^a 2840 ± 100			WGO = 55.361 ± 1.9493	71TELLIER
2634 ± 3	0		^a 2840	^b 130 ± 15	62 ± 6		77MUSGROVE+
2703.6	1	3.5	14.2	85.0		GT = 99.2	JENDL-2
2706 ± 3	1				6.1 ± 0.6		77MUSGROVE+
2713.0	0	3.5	720.0	68.0		GT = 788.0	JENDL-2
2713.0	1	3.5	720.0	85.0		GT = 805.0	JENDL-1
2713.0 ± 3.0			^a 720 ± 40			WGO = 13.823 ± 0.76795	71TELLIER
2715 ± 3	0		^a 720	^b 68 ± 9	31 ± 3		77MUSGROVE+
2760.1	0	3.5	6340.0	100.0		GT = 6440.0	JENDL-2
2760.1	0	3.5	6340.0	85.0		GT = 6425.0	JENDL-1
2760.1 ± 3.0			^a 6340 ± 300			WGO = 120.68 ± 5.7103	71TELLIER
2761 ± 3	0		^a 6340	^b 100 ± 15	49 ± 5		77MUSGROVE+
2795.6	1	3.5	^a 14.5	85.0		GT = 99.5	JENDL-2
2798 ± 3	1		^a 14 ± 3		6.2 ± 0.7		77MUSGROVE+
2819.8	0	3.5	325.0	40.0		GT = 365.0	JENDL-2
2819.8	1	3.5	325.0	85.0		GT = 410.0	JENDL-1
2819.8 ± 3.0			^a 325 ± 30			WGO = 6.1203 ± 0.56495	71TELLIER
2811 ± 3	0		^a 325	^b 40 ± 6	18 ± 2		77MUSGROVE+
2820.5	0	3.5	^a 98.9	86.0		GT = 184.9	JENDL-2
2822 ± 3	0		^a 100 ± 30		23 ± 3		77MUSGROVE+
2865.5	0	3.5	131.5	86.0		GT = 217.5	JENDL-2
2868 ± 3	0		^a 135 ± 40		26 ± 3		77MUSGROVE+
2872.6	0	3.5	3270.0	108.0		GT = 3378.0	JENDL-2
2872.6	0	3.5	3270.0	85.0		GT = 3355.0	JENDL-1
2872.6 ± 3.0			^a 3270 ± 120			WGO = 61.011 ± 2.2389	71TELLIER
2877 ± 3	0		^a 3270	^b 108 ± 13	52 ± 6		77MUSGROVE+
2912.5	0	3.5	1085.0	58.0		GT = 1143.0	JENDL-2
2912.5	1	3.5	1085.0	85.0		GT = 1170.0	JENDL-1
2912.5 ± 3.0			^a 1085 ± 60			WGO = 20.105 ± 1.1118	71TELLIER
2914 ± 3	0		^a 1085	^b 58 ± 7	28 ± 3		77MUSGROVE+
2964.4	1	3.5	^a 10.1	85.0		GT = 95.1	JENDL-2
2967 ± 3	1		^a 9 ± 2		4.5 ± 0.6		77MUSGROVE+
2995.5	0	3.5	74.8	86.0		GT = 160.8	JENDL-2
2998 ± 3	0		^a 76 ± 10		20 ± 2		77MUSGROVE+
3037.6	1	3.5	^a 33.3	85.0		GT = 118.3	JENDL-2
3040 ± 3	1		^a 33 ± 6		12 ± 1		77MUSGROVE+
3041.0	0	3.5	2830.0	111.0		GT = 2931.1	JENDL-2
3041.0	0	3.5	2830.0	85.0		GT = 2915.0	JENDL-1
3041.0 ± 3.0			^a 2830 ± 100			WGO = 51.319 ± 1.8134	71TELLIER
3046 ± 3	0		^a 2830	^b 111 ± 16	53 ± 5		77MUSGROVE+
3070.8	0	3.5	1035.0	99.0		GT = 1134.0	JENDL-2
3070.8	1	3.5	1035.0	85.0		GT = 1120.0	JENDL-1
3070.8 ± 3.0			^a 1035 ± 60			WGO = 18.677 ± 1.0827	71TELLIER
3074 ± 3	0		^a 1035	^b 99 ± 15	45 ± 5		77MUSGROVE+
3117.4	0	3.5	555.0	76.0		GT = 631.0	JENDL-2
3117.4	1	3.5	555.0	85.0		GT = 640.0	JENDL-1
3117.4 ± 3.0			^a 555 ± 50			WGO = 9.9402 ± 0.89552	71TELLIER
3119 ± 3	0		^a 555	^b 76 ± 11	33 ± 4		77MUSGROVE+
3184.0	0	3.5	2380.0	98.0		GT = 2478.0	JENDL-2
3184.0	0	3.5	2380.0	85.0		GT = 2465.0	JENDL-1
3184.0 ± 3.0			^a 2380 ± 100			WGO = 42.178 ± 1.7722	71TELLIER
3186 ± 3	0		^a 2380	^b 98 ± 15	47 ± 5		77MUSGROVE+
3196.0	0	3.5	560.0	92.0		GT = 652.0	JENDL-2
3196.0	1	3.5	560.0	85.0		GT = 645.0	JENDL-1
3196.0 ± 3.0			^a 560 ± 50			WGO = 9.9057 ± 0.88444	71TELLIER
3198 ± 3	0		^a 560	^b 92 ± 14	39 ± 4		77MUSGROVE+
3232.1	0	3.5	1570.0	75.0		GT = 1645.0	JENDL-2
3232.1	1	3.5	1570.0	85.0		GT = 1655.0	JENDL-1
3232.1 ± 3.0			^a 1570 ± 80			WGO = 27.616 ± 1.4072	71TELLIER
3234 ± 3	0		^a 1570	^b 75 ± 10	36 ± 4		77MUSGROVE+
3277.9	1	3.5	^a 62.9	85.0		GT = 146.9	JENDL-2
3280 ± 3	1		^a 62 ± 20		18 ± 2		77MUSGROVE+
3292.8	0	3.5	1825.0	130.0		GT = 1755.0	JENDL-2
3292.8	1	3.5	1825.0	85.0		GT = 1710.0	JENDL-1

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3292.8 ± 3.0 3295 ± 3	0		^a 1625 ±90 ^a 2400 ±800	^b 125 ±15	60 ± 6	WGO= 28.319± 1.5684	71TELLIER 77MUSGROVE+
3319.6 3322 ± 3	1 1	3.5	^a 6.5 ^a 6.5 ± 2	85.0	3 ± 1	GT = 91.5	JENDL-2 77MUSGROVE+
3363.3 3366 ± 3	1 1	3.5	^a 12.6 ^a 14 ± 2	85.0	5.5 ± 1	GT = 97.6	JENDL-2 77MUSGROVE+
3384.0 3384.0 3384.0 ± 4.0 3386 ± 3	0 0 0	3.5 3.5	2300.0 2300.0 ^a 2300 ±100 (^a 2300)	81.0 85.0 ^b 81 ±11	39 ± 4	GT = 2381.0 GT = 2385.0 WGO= 39.538± 1.719	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3426.0 3426.0 3426.0 ± 4.0 3429 ± 3	0 1 0	3.5 3.5	215.0 215.0 ^a 215 ±30 (^a 215)	95.0 85.0 ^b 95 ±13	33 ± 4	GT = 310.0 GT = 300.0 WGO= 3.6732±0.51254	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3455.0 3458 ± 3	1 1	3.5	145.1 ^a 150 ±50	86.0	27 ± 3	GT = 231.1	JENDL-2 77MUSGROVE+
3461.0 3461.0 3461.0 ± 4.0 3465 ± 3	0 1 0	3.5 3.5	975.0 975.0 ^a 975 ±60 (^a 975)	71.0 85.0 ^b 71 ±10	33 ± 3	GT = 1046.0 GT = 1060.0 WGO= 16.573± 1.0199	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3495.0 3498 ± 3	1 1	3.5	75.5 ^a 70	85.0	20 ± 3	GT = 160.5	JENDL-2 77MUSGROVE+
3509.0 3509.0 3509.0 ± 4.0 3512 ± 2	0 1 0	3.5 3.5	1690.0 1690.0 ^a 1690 ±100 (^a 1690)	76.0 85.0 ^b 76 ±10	37 ± 4	GT = 1766.0 GT = 1775.0 WGO= 26.53 ± 1.6881	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3542.0 3545 ± 3	1 1	3.5	16.7 ^a 17 ± 3	85.0	7 ± 1	GT = 101.7	JENDL-2 77MUSGROVE+
3566.0 3566.0 3566.0 ± 4.0 3569 ± 3	0 1 0	3.5 3.5	250.0 250.0 ^a 250 ±50 (^a 250)	71.0 85.0 ^b 71 ±10	28 ± 3	GT = 321.0 GT = 335.0 WGO= 4.1865± 0.8373	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3629.0 3629.0 3629.0 ± 4.0 3632 ± 3	0 1 0	3.5 3.5	1670.0 1670.0 ^a 1670 ±100 (^a 1670)	75.0 85.0 ^b 75 ±10	36 ± 4	GT = 1745.0 GT = 1755.0 WGO= 27.722± 1.66	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3644.7 3648 ± 3	0 0	3.5	119.4 ^a 120 ±50	86.0	25 ± 3	GT = 205.4	JENDL-2 77MUSGROVE+
3692.0 3695 ± 3	1 1	3.5	26.1 ^a 26 ± 4	85.0	10 ± 2	GT = 111.1	JENDL-2 77MUSGROVE+
3703.0 3703.0 3703.0 ± 4.0 3707 ± 3	0 0 0	3.5 3.5	2370.0 2370.0 ^a 2370 ±120 (^a 2370)	101.0 85.0 ^b 101 ±15	48 ± 5	GT = 2471.0 GT = 2455.0 WGO= 38.947± 1.972	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3715.0 3715.0 3715.0 ± 4.0 3719 ± 3	0 1 0	3.5 3.5	2060.0 2060.0 ^a 2060 ±120 (^a 2060)	76.0 85.0 ^b 76 ±10	37 ± 4	GT = 2136.0 GT = 2145.0 WGO= 33.798± 1.9688	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3734.0 3738 ± 3	1 1	3.5	11.3 ^a 11 ± 3	85.0	5 ± 1	GT = 96.3	JENDL-2 77MUSGROVE+
3742.0 3745 ± 3	1 1	3.5	11.3 ^a 12 ± 3	85.0	5 ± 1	GT = 96.3	JENDL-2 77MUSGROVE+
3767.0 3771 ± 3	1 1	3.5	41.5 ^a 42 ± 8	85.0	14 ± 2	GT = 126.5	JENDL-2 77MUSGROVE+
3778.0 3778.0 3778.0 ± 4.0 3782 ± 3	0 0 0	3.5 3.5	440.0 440.0 ^a 440 ±60 (^a 440)	64.0 85.0 ^b 64 ±10	28 ± 3	GT = 504.0 GT = 525.0 WGO= 7.1585±0.97616	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3836.0 3836.0 3836.0 ± 4.0 3840 ± 3	0 1 0	3.5 3.5	225.0 225.0 ^a 225 ±45 (^a 225)	84.0 85.0 ^b 84 ±10	30 ± 3	GT = 309.0 GT = 310.0 WGO= 3.6328±0.72656	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3882.0 3882.0 3882.0 ± 4.0 3886 ± 3	0 1 0	3.5 3.5	1120.0 1120.0 ^a 1120 ±60 (^a 1120)	81.0 85.0 ^b 81 ±10	38 ± 4	GT = 1201.0 GT = 1205.0 WGO= 17.976± 1.284	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3896.0 3900 ± 3	1 1	3.5	100.0 ^a 100 ±30	85.0	23 ± 3	GT = 185.0	JENDL-2 77MUSGROVE+
3913.0 3917 ± 3	1 1	3.5	19.7 ^a 20 ± 3	85.0	8 ± 1	GT = 104.7	JENDL-2 77MUSGROVE+
3954.0 3954.0 3954.0 ± 4.0 3958 ± 3	0 1 0	3.5 3.5	550.0 550.0 ^a 550 ±60 (^a 550)	92.0 85.0 ^b 92 ±12	39 ± 4	GT = 642.0 GT = 635.0 WGO= 8.7467±0.95419	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4006.0 4011 ± 3	1 1	3.5	19.7 ^a 20 ± 3	85.0	8 ± 1	GT = 104.7	JENDL-2 77MUSGROVE+
4017.0 4017.0 4017.0 ± 4.0 4022 ± 3	0 0 0	3.5 3.5	4380.0 4380.0 ^a 4380 ±200 (^a 4380)	120.0 85.0 ^b 120 ±15	58 ± 6	GT = 4500.0 GT = 4465.0 WGO= 89.107± 3.1556	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
4028.0 4028.0 4028.0 ± 4.0 4033 ± 3	0 1 0	3.5 3.5	1770.0 1770.0 ^a 1770 ±120 1770)	72.0 85.0 72 ±10	35 ± 4	GT = 1842.0 GT = 1855.0 WGO= 27.889± 1.8908	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4045.0 4050 ± 3	1 1	3.5	22.8 ^a 23 ± 4	85.0	9 ± 1	GT = 107.8	JENDL-2 77MUSGROVE+
4059.0 4059.0 4059.0 ± 4.0 4064 ± 3	0 1 0	3.5 3.5	2340.0 2340.0 ^a 2340 ±120 2340)	84.0 85.0 84 ±11	41 ± 5	GT = 2424.0 GT = 2425.0 WGO= 36.729± 1.8835	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4084.1 4089 ± 3	1 1	3.5	29.6 ^a 30 ± 6	85.0	11 ± 2	GT = 114.6	JENDL-2 77MUSGROVE+
4109 4109.0 4109.0 ± 5.0 4111 ± 3	0 1 0	3.5 3.5	215.0 215.0 ^a 215 ±60 215)	99.0 85.0 89 ±16	34 ± 4	GT = 5314.0 GT = 300.0 WGO= 3.3541±0.93602	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4132.0 4132.0 4132.0 ± 5.0 4136 ± 3	0 1 0	3.5 3.5	970.0 970.0 ^a 970 ±100 970)	73.0 85.0 73 ±10	34 ± 4	GT = 1043.0 GT = 1055.0 WGO= 15.09 ± 1.5557	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4141.0 4141.0 4141.0 ± 5.0 4145 ± 3	0 1 0	3.5 3.5	910.0 910.0 ^a 910 ±100 910)	69.0 85.0 69 ±10	32 ± 4	GT = 979.0 GT = 995.0 WGO= 14.141± 1.554	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4196.0 4200 ± 3	1 1	3.5	13.9 ^a 14 ± 2	86.0	6 ± 1	GT = 98.9	JENDL-2 77MUSGROVE+
4200.0 4209 ± 3	1 1	3.5	37.3 ^a 37 ± 8	85.0	13 ± 2	GT = 122.3	JENDL-2 77MUSGROVE+
4203.0 4203.0 4203.0 ± 5.0 4213 ± 3	0 0 0	3.5 3.5	6480.0 6400.0 ^a 6480 ±300 6480)	95.0 85.0 95 ±12	47 ± 5	GT = 6575.0 GT = 6485.0 WGO= 99.953± 4.6274	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4243.0 4243.0 4243.0 ± 5.0 4247 ± 3	0 1 0	3.5 3.5	1240.0 1240.0 ^a 1240 ±100 1240)	68.0 85.0 68 ±10	32 ± 4	GT = 1308.0 GT = 1325.0 WGO= 19.036± 1.5352	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4333.0 4333.0 4333.0 ± 5.0 4337 ± 3	0 0 0	3.5 3.5	3240.0 3240.0 ^a 3240 ±150 3240)	74.0 85.0 74 ±10	36 ± 4	GT = 3314.0 GT = 3325.0 WGO= 49.221± 2.2788	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4398.0 4342 ± 3	1 1	3.5	204.0 ^a 200 ±50	85.0	30 ± 4	GT = 289.0	JENDL-2 77MUSGROVE+
4395.0 4395.0 4395.0 ± 5.0 4399 ± 3	0 1 0	3.5 3.5	230.0 230.0 ^a 230 ±50 230)	74.0 85.0 74 ±12	28 ± 3	GT = 304.0 GT = 315.0 WGO= 3.4594±0.75421	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4415.0 4415.0 4415.0 ± 5.0 4420 ± 3	0 1 0	3.5 3.5	540.0 540.0 ^a 540 ±75 1500)	114.0 85.0 101 ±15	47 ± 5	GT = 654.0 GT = 625.0 WGO= 8.127± 1.1287	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4425.0 4430 ± 3	1 1	3.5	8.8 ^a 9 ± 2	85.0	4 ± 1	GT = 99.8	JENDL-2 77MUSGROVE+
4440.0 4445 ± 3	1 1	3.5	16.7 ^a 17 ± 3	85.0	7 ± 1	GT = 101.7	JENDL-2 77MUSGROVE+
4459.0 4483 ± 3	1 1	3.5	134.0 ^a 135 ±40	85.0	26 ± 3	GT = 219.0	JENDL-2 77MUSGROVE+
4473.0 4473.0 4473.0 ± 5.0 4478 ± 3	0 1 0	3.5 3.5	730.0 730.0 ^a 730 ±90 730)	77.0 85.0 73 ±10	35 ± 4	GT = 807.0 GT = 815.0 WGO= 10.915± 1.3457	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4516.0 4518.0 4516.0 ± 5.0 4521 ± 3	0 1 0	3.5 3.5	240.0 240.0 ^a 240 ±60 240)	76.0 85.0 76 ±10	29 ± 3	GT = 316.0 GT = 325.0 WGO= 3.5714±0.89284	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4555.0 4555.0 4555.0 ± 5.0 4560 ± 3	0 1 0	3.5 3.5	250.0 250.0 ^a 250 ±50 250)	64.0 85.0 64 ±10	25 ± 3	GT = 314.0 GT = 335.0 WGO= 3.7042±0.74084	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4596.0 4596.0 4596.0 ± 5.0 4601 ± 3	0 1 0	3.5 3.5	750.0 750.0 ^a 750 ±100 750)	79.0 85.0 79 ±10	36 ± 4	GT = 829.0 GT = 835.0 WGO= 11.063± 1.4751	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4607.0 4607.0 4607.0 ± 5.0 4612 ± 3	0 1 0	3.5 3.5	1160.0 1160.0 ^a 1160 ±100 1160)	115.0 85.0 116 ±20	53 ± 6	GT = 1276.0 GT = 1245.0 WGO= 17.09 ± 1.4733	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4659.0 4663 ± 3	1 1	3.5	61.9 ^a 62 ±10	85.0	18 ± 2	GT = 146.9	JENDL-2 77MUSGROVE+
4686.0 4686.0 4686.0 ± 5.0 4691 ± 3	0 1 0	3.5 3.5	2630.0 2630.0 ^a 2630 ±150 2630)	69.0 85.0 69 ±10	34 ± 4	GT = 2699.0 GT = 2715.0 WGO= 38.42 ± 2.1912	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
4725.5 4731 ± 3	1	3.5	^a 91.0 ^a 90 ± 30	85.0	22 ± 3	GT = 176.0	JENDL-2 77MUSGROVE+
4743.0 4743.0 4743.0 ± 5.0 4749 ± 3	0 1 0	3.5 3.5	^a 720.0 ^a 720.0 ± 70 ^a 2000	116.0 85.0	50 ± 5	GT = 836.0 GT = 805.0 WGO = 10.455 ± 1.0164	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4775.4 4782 ± 3	1 1	3.5	^a 22.8 ^a 23 ± 4	85.0	9 ± 1	GT = 107.8	JENDL-2 77MUSGROVE+
4826.2 4836 ± 3	1	3.5	^a 397.0 ^a 400	85.0	35 ± 4	GT = 482.0	JENDL-2 77MUSGROVE+
4838.0 4838.0 4838.0 ± 5.0 4846 ± 3	0 0 0	3.5 3.5	^a 5450.0 ^a 5450.0 ^a 5450 ± 300 ^a 5450	108.0 85.0	53 ± 6	GT = 5558.0 GT = 5535.0 WGO = 78.354 ± 4.3131	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4891.0 4891.0 4891.0 ± 5.0 4897 ± 3	0 0 0	3.5 3.5	^a 6200.0 ^a 6200.0 ± 300 ^a 6200	84.0 85.0	41 ± 5	GT = 6284.0 GT = 6285.0 WGO = 88.653 ± 4.2897	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4903.3 4909 ± 3	1 1	3.5	^a 26.2 ^a 26 ± 5	85.0	10 ± 2	GT = 111.2	JENDL-2 77MUSGROVE+
4928.6 4934 ± 3	1	3.5	^a 134.0 ^a 135 ± 40	85.0	26 ± 3	GT = 219.0	JENDL-2 77MUSGROVE+
4960.9 4966 ± 3	1 1	3.5	^a 13.9 ^a 14 ± 2	85.0	6 ± 1	GT = 98.9	JENDL-2 77MUSGROVE+
4987.0 4987.0 4987.0 ± 5.0 4992 ± 3	0 0 0	3.5 3.5	^a 5070.0 ^a 5070.0 ± 300 ^a 5070	89.0 85.0	43 ± 5	GT = 5159.0 GT = 5155.0 WGO = 71.794 ± 4.2482	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4995.0 5004 ± 3	1 1	3.5	^a 33.4 ^a 33 ± 7	85.0	12 ± 2	GT = 118.4	JENDL-2 77MUSGROVE+
5012.0 5012.0 5012.0 ± 5.0 5017 ± 3	0 1 0	3.5 3.5	^a 1780.0 ^a 1780.0 ± 180 ^a 1780	82.0 85.0	39 ± 4	GT = 1862.0 GT = 1865.0 WGO = 25.143 ± 2.5425	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
5128.0 5128.0 5128.0 ± 5.0	0 0 0	3.5 3.5	^a 3400.0 ^a 3400.0 ± 200	88.0 85.0		GT = 3486.0 GT = 3485.0 WGO = 47.479 ± 2.7929	JENDL-2 JENDL-1 71TELLIER
5180.0 5180.0 5180.0 ± 5.0	0 0 0	3.5 3.5	^a 8150.0 ^a 8150.0 ± 400	85.0 85.0		GT = 8236.0 GT = 8235.0 WGO = 113.24 ± 5.5577	JENDL-2 JENDL-1 71TELLIER
5235.0 5235.0 5235.0 ± 5.0	0 1 0	3.5 3.5	^a 2350.0 ^a 2350.0 ± 200	86.0 85.0		GT = 2436.0 GT = 2435.0 WGO = 32.48 ± 2.7642	JENDL-2 JENDL-1 71TELLIER
5313.0 5313.0 5313.0 ± 6.0	0 1 0	3.5 3.5	^a 950.0 ^a 980.0 ± 100 ^a 950	86.0 85.0		GT = 1036.0 GT = 1065.0 WGO = 13.033 ± 1.3719	JENDL-2 JENDL-1 71TELLIER
5440.0 5440.0 5440.0 ± 6.0	0 0 0	3.5 3.5	^a 5570.0 ^a 5570.0 ± 250	86.0 85.0		GT = 5656.0 GT = 5655.0 WGO = 75.519 ± 3.3895	JENDL-2 JENDL-1 71TELLIER
5503.0 5503.0 5503.0 ± 6.0	0 1 0	3.5 3.5	^a 255.0 ^a 255.0 ± 80	86.0 85.0		GT = 341.0 GT = 340.0 WGO = 3.4375 ± 1.0784	JENDL-2 JENDL-1 71TELLIER

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-76	0	0.5	477	62		GT = 539 COM=M-L-B-W	JENDL-2
373.8	0	0.5	16250.0	47.0		GT = 16297.0	JENDL-2
373.8	0	0.5	16250.0	80.0		GT = 16330.0	JENDL-1
373.8	0	0.5	16250.0	80.0		GT = 16330.0	ENDF-B-4
374 ± 2			15000 ± 1000			GND= 790 ± 52	68KARZHAYINA+
373.8 ± 0.4						GT = 17500 ± 2000	71TELLIER
						WGN= 32500 ± 1000	
						WGO= 1681.0 ± 51.72	
733.70	0	0.5	650.0	78.0		GT = 697.0	JENDL-2
733.7	1	1.0	417.0	78.0		GT = 495.0	JENDL-1
733.7	0	0.5	625.0	78.0		GT = 703.0	ENDF-B-4
736 ± 4			590 ± 50	78 ± 12		GND= 21.4 ± 1.8	68KARZHAYINA+
733.8		0.5	645 ± 50	100 ± 60		GT = 740 ± 80	69ALYES+
733.7 ± 0.8						GT = 750 ± 50	71TELLIER
						WGN= 1300 ± 60	
						WGO= 47.99 ± 2.22	
1277.3	0	0.5	34800.0	47.0		GT = 34847.0	JENDL-2
1277.3	0	0.5	32300.0	80.0		GT = 32380.0	JENDL-1
1277.3	0	0.5	32300.0	80.0		GT = 32380.0	ENDF-B-4
1280 ± 5			27500 ± 1500			GND= 770 ± 42	68KARZHAYINA+
1277.3 ± 1.5						GT = 36000 ± 3000	71TELLIER
						WGN= 69600 ± 2000	
						WGO= 1947.4 ± 55.96	
1620.0	0	0.5	4330.0	150.0		GT = 4480.0	JENDL-2
1628.0	0	0.5	4330.0	150.0		GT = 4480.0	JENDL-1
1628.0	0	0.5	4330.0	150.0		GT = 4480.0	ENDF-B-4
1635 ± 8			4300 ± 300	150 ± 60		GND= 105 ± 8	68KARZHAYINA+
1620 ± 2						GT = 4700 ± 500	71TELLIER
						WGN= 6660 ± 500	
						WGO= 215.16 ± 12.42	
1975.0	0	0.5	15400.0	47.0		GT = 15447.0	JENDL-2
1975.0	0	0.5	15000.0	80.0		GT = 15080.0	JENDL-1
1975.0	0	0.5	15000.0	80.0		GT = 15080.0	ENDF-B-4
1980 ± 10			14000 ± 1500			GND= 315 ± 36	68KARZHAYINA+
1975 ± 2						GT = 16500 ± 2000	71TELLIER
						WGN= 30800 ± 1500	
						WGO= 693.05 ± 33.75	
2762.0	0	0.5	4030.0	65.0		GT = 4095.0	JENDL-2
2762.0	1	1.0	2687.0	80.0		GT = 2767.0	JENDL-1
2762.0	0	0.5	4030.0	80.0		GT = 4110.0	ENDF-B-4
2784 ± 20			4000 ± 1000			GND= 75 ± 19	68KARZHAYINA+
2762 ± 3						WGN= 8060 ± 400	71TELLIER
2762 ± 2	0		4000 ± 1000	65 ± 10	63 ± 10	WGO= 153.36 ± 7.61	77MUSGROVE+
2955.0	1	0.5	20.1	41.0		GT = 61.1	JENDL-2
2955 ± 2	1	)	20 ± 5		13.5 ± 1.5		77MUSGROVE+
3063.0	1	0.5	3.2	41.0		GT = 44.2	JENDL-2
3063 ± 3	1	)	3 ± 0.5		3 ± 0.5		77MUSGROVE+
3293.0	1	0.5	4.7	41.0		GT = 45.7	JENDL-2
3293 ± 3	1	)	5 ± 0.5		4.2 ± 0.5		77MUSGROVE+
3538.1	0	0.5	15900.0	43.0		GT = 15943.0	JENDL-2
3538.1	0	0.5	15500.0	80.0		GT = 15580.0	JENDL-1
3538.1	0	0.5	15500.0	80.0		GT = 15580.0	ENDF-B-4
3567 ± 24			17000 ± 2000			GND= 285 ± 34	68KARZHAYINA+
3538.1 ± 4						WGN= 31800 ± 1500	71TELLIER
3538 ± 5	0		15500 ± 1500	43 ± 8	43 ± 8	WGO= 634.62 ± 25.22	77MUSGROVE+
3631.0	1	0.5	1.0	41.0		GT = 42.0	JENDL-2
3629 ± 3	1	)	1 ± 1		1.0 ± 0.8		77MUSGROVE+
3749.0	0	0.5	1360.0	26.0		GT = 1386.0	JENDL-2
3749.0	1	1.0	907.0	80.0		GT = 987.0	JENDL-1
3749.0	0	0.5	1360.0	80.0		GT = 1440.0	ENDF-B-4
3760 ± 27						GND= < 10	68KARZHAYINA+
3749 ± 4						WGN= 2720 ± 120	71TELLIER
3737 ± 3	0		1360)	26 ± 4	26 ± 3	WGO= 44.42 ± 1.96	77MUSGROVE+
3762.0	1	0.5	15.0	41.0		GT = 56.0	JENDL-2
3760 ± 3	1	)	15 ± 4		11 ± 2		77MUSGROVE+
4239.0	1	0.5	13.2	41.0		GT = 54.2	JENDL-2
4237 ± 3	1	)	13 ± 3		10 ± 2		77MUSGROVE+
4598.0	1	0.5	99.1	41.0		GT = 140.1	JENDL-2
4602 ± 3	1	)	80		29 ± 3		77MUSGROVE+
4738.0	0	0.5	275.0	31.0		GT = 305.0	JENDL-2
4738.0	1	1.0	183.0	80.0		GT = 263.0	JENDL-1
4738.0	0	0.5	275.0	80.0		GT = 355.0	ENDF-B-4
4738 ± 5						WGN= 550 ± 100	71TELLIER
4743 ± 3	0	)	275)	31 ± 6	28 ± 3	WGO= 7.990 ± 1.453	77MUSGROVE+
4929.0	0	0.5	24300.0	67.0		GT = 24367.0	JENDL-2
4929.0	0	0.5	24200.0	80.0		GT = 24280.0	JENDL-1
4929.0	0	0.5	24200.0	80.0		GT = 24280.0	ENDF-B-4
4985 ± 40			26000 ± 4000			GND= 370 ± 57	68KARZHAYINA+
4929 ± 5						WGN= 48500 ± 2000	71TELLIER
4930 ± 6	0		24200)	67 ± 10	67 ± 10	WGO= 692.24 ± 28.49	77MUSGROVE+
4954.0	1	0.5	199.0	41.0		GT = 240.0	JENDL-2
4955 ± 3	1)	100		34 ± 4		77MUSGROVE+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
5147.0 5200 ±45 5148 ±3	1 1	0.5	35.4 R 33 ± 7	41.0	19 ± 3	GT = 78.4 GND=< 10	JENDL-2 68KARZHAVINA+ 77MUSGROVE+
5303.5 5305 ± 3	1 1	0.5	8.4 R 10 ± 2	41.0	7 ± 1	GT = 49.4	JENDL-2 77MUSGROVE+
5648.0 5648.0 5648.0 5697 ±50 5648 ± 6 5650 ± 4	0 1 0 0 0	0.5 1.0 0.5	3360.0 2240.0 3360.0 2000 ±1000 f3360)	40.0 80.0 80.0 40 ± 5	39 ± 5	GT = 3400.0 GT = 2320.0 GT = 3440.0 GND= 26 ±13 MGN= 6720 ±400 MGO= 89.42 ± 5.32	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
5842.5 5843 ± 4	1 1	0.5	47.5 R 43 ± 8	41.0	22 ± 3	GT = 88.5	JENDL-2 77MUSGROVE+
6106.0 6106.0 6106.0 6207 ±60 6106 ± 6 6106 ± 6	0 1 0 0 0	0.5 1.0 0.5	13470.0 8667.0 13000.0 8000 ±2000 f13000)	62.0 80.0 80.0 62 ± 7	62 ± 7	GT = 13532.0 GT = 8747.0 GT = 13080.0 GND= 101 ±25 MGN= 26940 ±1500 MGO= 344.76 ±19.20	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
6138.0 6138 ± 4	1 1	0.5	64.1 R 56 ±10	41.0	25 ± 3	GT = 105.1	JENDL-2 77MUSGROVE+
6747.0 6747 ± 4	1 1	0.5	35.4 R 33 ± 7	41.0	19 ± 3	GT = 78.4	JENDL-2 77MUSGROVE+
6778.0 6778 ± 4	1 1	1.5 (1.5)	83.5 R 150	41.0	55 ± 6	GT = 124.5	JENDL-2 77MUSGROVE+
6788.0 6788.0 6788.0 6910 ±70 6788 ± 7 6788 ±10	0 0 0 0 0	0.5 0.5 0.5	48260.0 48000.0 48000.0 43000 ±5000 f48000)	45.0 80.0 80.0 45 ± 5	45 ± 5	GT = 48305.0 GT = 48080.0 GT = 48080.0 GND= 517 ±60 MGN= 96520 ±6000 MGO= 1171.5 ±60.69	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
7016.5 7023 ± 4	1 1	1.5	32.0 R 20 ± 5	41.0	36 ± 4	GT = 73.0	JENDL-2 77MUSGROVE+
7048.0 7048.0 7048.0 7048 ± 7 7055 ± 5	0 1 0 0 0	0.5 1.0 0.5	3443.0 2295.0 3443.0 f3443)	35.0 80.0 80.0 35 ± 4	35 ± 4	GT = 3478.0 GT = 2375.0 GT = 3523.0 MGN= 6885 ±700 MGO= 82.01 ± 8.34	JENDL-2 JENDL-1 ENDF-B-4 71TELLIER 77MUSGROVE+
7173.0 7181 ± 4	1 1	0.5	23.7 R 25 ± 5	41.0	15 ± 2	GT = 64.7	JENDL-2 77MUSGROVE+
7400.0 7408 ± 4	1 1	0.5	111.8 R 90	41.0	30 ± 4	GT = 152.8	JENDL-2 77MUSGROVE+
7473.0 7473.0 7473.0 7594 ±75 7473 ± 8 7481 ± 4	0 1 0 0 0	0.5 1.0 0.5	5160.0 3440.0 5160.0 3100 ±1500 f5160)	36.0 80.0 80.0 36 ± 4	36 ± 4	GT = 5196.0 GT = 3520.0 GT = 5240.0 GND= 36 ±18 MGN= 10320 ±1000 MGO= 119.38 ±11.57	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
7812.0 7818 ± 4	1 1	0.5	57.9 R 51 ±10	41.0	24 ± 3	GT = 98.9	JENDL-2 77MUSGROVE+
7959.5 7965 ± 4	1 1	0.5	17.0 R 16 ± 4	41.0	12 ± 2	GT = 58.0	JENDL-2 77MUSGROVE+
8186.0 8186.0 8186.0 8300 ±85 8186 ±10 8190 ± 8	0 1 0 0 0	0.5 1.0 0.5	14315.0 9543.0 14315.0 9000 ±2400 f14315)	55.0 80.0 80.0 55 ± 7	55 ± 7	GT = 14370.0 GT = 9623.0 GT = 14395.0 GND= 99 ±26 MGN= 28630 ±1500 MGO= 316.44 ±16.68	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
8226.5 8230 ± 4	1 1	0.5	43.1 R 39 ± 8	41.0	21 ± 3	GT = 84.1	JENDL-2 77MUSGROVE+
8400.5 8405 ± 4	1 1	0.5	64.1 R 56 ±10	41.0	25 ± 3	GT = 105.1	JENDL-2 77MUSGROVE+
8846.0 8846.0 8846.0 8846 ±10 8865 ± 5	0 1 0 0 0	0.5 1.0 0.5	3100.0 2087.0 3100.0 f3100)	39.0 80.0 80.0 39 ± 5	39 ± 5	GT = 3199.0 GT = 2147.0 GT = 3180.0 MGN= 6200 ±1000 MGO= 65.92 ±10.63	JENDL-2 JENDL-1 ENDF-B-4 71TELLIER 77MUSGROVE+
8857.0 8876 ± 4	1 1	0.5	47.6 R 50 ±10	41.0	22 ± 3	GT = 88.5	JENDL-2 77MUSGROVE+
9115.0 9130 ± 4	1 1	0.5	88.3 R 80	41.0	28 ± 4	GT = 129.3	JENDL-2 77MUSGROVE+
9239.0 9245 ± 4	1 1	0.5	52.4 R 47 ± 9	41.0	23 ± 4	GT = 93.4	JENDL-2 77MUSGROVE+
9296.0 9300 ± 4	1 1	0.5	11.5 R 11 ± 4	41.0	9 ± 3	GT = 52.5	JENDL-2 77MUSGROVE+
9342.0	1	0.5	71.1	41.0		GT = 112.1	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WHS (MILLI-EV)	MISCELLANEOUS	REFERENCE
9345 ± 4			^R 62 ± 12		26 ± 4		77MUSGROVE+
9372.0	0	0.5	36255.0	36.0		GT = 36291.0	JENDL-2
9372.0	0	0.5	36300.0	80.0		GT = 36380.0	JENDL-1
9372.0	0	0.5	36300.0	80.0		GT = 36380.0	ENDF-B-4
9611 ± 100			22000 ± 4000			GNO = 225 ± 40	68KARZHAYINA+
9372 ± 10						WGN = 72510 ± 3500	71TELLIER
9372 ± 10						WGO = 749.00 ± 36.15	
9375 ± 6	0		(^f 36300)	36 ± 5	36 ± 5		77MUSGROVE+
9529.5	1	0.5	^R 21.3	41.0		GT = 62.3	JENDL-2
9533 ± 3	1		± 5		14 ± 3		77MUSGROVE+
9566.6	1	1.5	^R 26.0	41.0		GT = 67.0	JENDL-2
9560 ± 5	1		± 6		32 ± 4		77MUSGROVE+
9735.0	0	0.5	47850.0	77.0		GT = 47927.0	JENDL-2
9735.0	0	0.5	47850.0	80.0		GT = 47930.0	JENDL-1
9735.0	0	0.5	47850.0	80.0		GT = 47930.0	ENDF-B-4
9930 ± 115			24000 ± 4000			GNO = 240 ± 40	68KARZHAYINA+
9735 ± 10						WGN = 95700 ± 5000	71TELLIER
9740 ± 10	0		(^f 47850)	77 ± 9	77 ± 9	WGO = 969.94 ± 50.68	77MUSGROVE+
9956.6	1	0.5	^R 35.4	41.0		GT = 76.4	JENDL-2
9961 ± 5	1		80		19 ± 4		77MUSGROVE+
10036.0	1	0.5	^R 43.1	41.0		GT = 84.1	JENDL-2
10040 ± 5	1		± 8		21 ± 4		77MUSGROVE+
10124.5	1	1.5	^R 119.1	41.0		GT = 160.1	JENDL-2
10128 ± 5	1	(1.5)	^R 200		61 ± 7		77MUSGROVE+
10706.0	1	1.5	^R 500.0	40.0		GT = 540.0	JENDL-2
10705 ± 5	1	(1.5)	^R 1000	40 ± 10	73 ± 8		77MUSGROVE+
10712.0	0	0.5	58460.0	46.0		GT = 58506.0	JENDL-2
10712.0	0	0.5	58500.0	80.0		GT = 58580.0	JENDL-1
10930 ± 130			34000 ± 5000			GNO = 325 ± 48	68KARZHAYINA+
10712 ± 15						WGN = 116920 ± 5000	71TELLIER
10711 ± 10	0		(^f 58500)	46 ± 6	46 ± 6	WGO = 1129.7 ± 48.31	77MUSGROVE+
11244.0	0	0.5	18530.0	64.0		GT = 18594.0	JENDL-2
11244.0	1	1.0	12353.0	80.0		GT = 12433.0	JENDL-1
11244 ± 15						WGN = 37060 ± 1500	71TELLIER
11260 ± 5	0		(^f 18530)	64 ± 7	64 ± 7	WGO = 349.50 ± 14.15	77MUSGROVE+
11393.0	1	1.5	^R 1000.0	31.0		GT = 1031.0	JENDL-2
11410 ± 5	1	(1.5)	^R 2000	31 ± 10	60 ± 7		77MUSGROVE+
11641.0	0	0.5	15900.0	31.0		GT = 15931.0	JENDL-2
11641.0	1	1.0	10600.0	80.0		GT = 10660.0	JENDL-1
11730 ± 150			(8000)			GNO = (74)	68KARZHAYINA+
11641 ± 15						WGN = 31800 ± 2000	71TELLIER
11660 ± 5	0		(^f 15900)	31 ± 6	31 ± 6	WGO = 294.74 ± 18.54	77MUSGROVE+
11721.0	1	0.5	^R 1000.0	35.0		GT = 1035.0	JENDL-2
11740 ± 5	1		(^f 1000)	35 ± 10	33 ± 5		77MUSGROVE+
12177.0	0	0.5	4275.0	47.0		GT = 4322.0	JENDL-2
12177.0	1	1.0	2850.0	80.0		GT = 2930.0	JENDL-1
12177 ± 15						WGN = 8550 ± 1500	71TELLIER
12177 ± 15						WGO = 77.48 ± 13.59	
13242.0	0	0.5	61775.0	47.0		GT = 61822.0	JENDL-2
13242.0	0	0.5	61800.0	80.0		GT = 61880.0	JENDL-1
13540 ± 200			45000 ± 8000			GNO = 390 ± 70	68KARZHAYINA+
13242 ± 15						WGN = 123550 ± 8000	71TELLIER
13242 ± 15						WGO = 1073.7 ± 69.52	
13577.0	0	0.5	14130.0	47.0		GT = 14177.0	JENDL-2
13577.0	1	1.0	9420.0	80.0		GT = 9500.0	JENDL-1
13577 ± 15						WGN = 28260 ± 2000	71TELLIER
13577 ± 15						WGO = 242.53 ± 17.16	
13997.0	0	0.5	40950.0	47.0		GT = 40997.0	JENDL-2
13997.0	0	0.5	40950.0	80.0		GT = 41030.0	JENDL-1
13997 ± 15						WGN = 81900 ± 5000	71TELLIER
13997 ± 15						WGO = 892.26 ± 42.26	
14480.0	0	0.5	2870.0	47.0		GT = 2917.0	JENDL-2
14480.0	1	1.0	1913.0	80.0		GT = 1993.0	JENDL-1
14480 ± 15						WGN = 5740 ± 1500	71TELLIER
14480 ± 15						WGO = 47.70 ± 12.47	
15243.0	0	0.5	2223.0	47.0		GT = 2270.0	JENDL-2
15243.0	1	1.0	1492.0	80.0		GT = 1562.0	JENDL-1
15243 ± 15						WGN = 4445 ± 1500	71TELLIER
15243 ± 15						WGO = 36.00 ± 12.15	
16317.0	0	0.5	58665.0	47.0		GT = 58712.0	JENDL-2
16317.0	0	0.5	58660.0	80.0		GT = 58740.0	JENDL-1
16317 ± 20						WGN = 117330 ± 5000	71TELLIER
16317 ± 20						WGO = 918.62 ± 39.14	
16716.0	0	0.5	26150.0	47.0		GT = 26197.0	JENDL-2
16716.0	1	1.0	17433.0	80.0		GT = 17513.0	JENDL-1
16716 ± 20						WGN = 52300 ± 3000	71TELLIER
16716 ± 20						WGO = 404.52 ± 23.20	
16830.0	0	0.5	33850.0	47.0		GT = 33897.0	JENDL-2
16830.0	0	0.5	33850.0	80.0		GT = 33930.0	JENDL-1
16830 ± 20						WGN = 67700 ± 4000	71TELLIER
16830 ± 20						WGO = 521.85 ± 30.83	

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
17537.0 17537.0 17537 ±20	0 1	0.5 1.0	10795.0 7197.0	47.0 80.0		GT = 10842.0 GT = 7277.0 WGN= 21590 ±2500 WGO= 163.03 ±18.88	JENDL-2 JENDL-1 7ITELLIER
18191.0 18191.0 18191 ±20	0 1	0.5 1.0	8385.0 5590.0	47.0 80.0		GT = 8432.0 GT = 5670.0 WGN= 16770 ±2000 WGO= 124.34 ±14.83	JENDL-2 JENDL-1 7ITELLIER
18430.0 18430.0 18430 ±20	0 0	0.5 0.5	40780.0 40780.0	47.0 80.0		GT = 40827.0 GT = 40860.0 WGN= 81560 ±5000 WGO= 600.78 ±36.83	JENDL-2 JENDL-1 7ITELLIER
19407.0 19407.0 19407 ±20	0 1	0.5 1.0	28545.0 19030.0	47.0 80.0		GT = 28592.0 GT = 19110.0 WGN= 57090 ±4000 WGO= 408.81 ±28.71	JENDL-2 JENDL-1 7ITELLIER

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-28	0	4.0	850	75		GT = 925 COM = M-L-B-M	JENDL-2
4.43 4.036 4.35 4.43 4.3	0 0 0 0	3.0 3.0 3.0 3	1.1 1.4 1.3714	87.0 51.0 51.0 57 ± 7		GT = 88.1 GT = 52.4 GT = 52.371 WGM = 0.48 ± 0.04 GT = 58 ± 7	JENDL-2 JENDL-1 ENDF-B-4 69ALVES+ 71CAUVIN+
42.51 42.51 42.51 42.6 ± 0.1 42.49 42.28 42.5 42.77 42.51 ± 0.05	0 0 0 0 0 0 0	3.0 3.0 3.0 3 3 3 3	358.9 358.9 354.29 360 ± 30 270 ± 15 314 ± 15	59.7 59.7 57.0 90 ± 38 67 ± 5		GT = 418.6 GT = 418.6 GT = 411.29 WGM = 155 ± 16 WGO = 47 ± 5 GT = 394 ± 43 WGM = 155 ± 12 GT = 450 ± 35 WGM = (155 ± 16) WMI = 26.1 ± 1.2 GT = 430 ± 20 WGO = 48.16 ± 2.3006	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71CAUVIN+ 71ROHR+ 71TELLIER
85.61 85.61 85.62 85.7 ± 0.2 85.53 85.10 85.7 85.61 85.61 ± 0.08	0 0 0 0 0 0 0	4.0 4.0 4.0 4 4	11.9 11.9 10.933 14.5 ± 1.5 13.4 ± 0.5	26.1 60.0 50.0 (70 ± 20) 4.6 ± 0.6	5.9 ± 0.5	GT = 38.0 GT = 71.9 GT = 60.933 WGM = 7.9 ± 0.9 WGO = 1.7 ± 0.2 WGM = 7.6 ± 1 WGM = 5.6 ± 0.6 GT = 78 ± 8 WGO = 1.4482 ± 0.0540	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71CAUVIN+ 71ROHR+ 71TELLIER
96.0 96.0 96.0 96.0 ± 0.2 95.94 95.54 96.0 96.04 96 ± 0.1	0 1 0 0 0 0 0	3.0 3.0 3.0 3 3	5.94 5.94 5.8286 5.2 ± 0.6 5.2 ± 0.3	45.6 60.0 74.0	2.3 ± 0.1	GT = 51.84 GT = 65.94 GT = 79.829 WGM = 2.1 ± 0.3 WGO = 0.43 ± 0.05 WGM = 1 WGM = 2.5 ± 0.1 GT = 80 ± 10 WGO = 0.53072 ± 0.0306	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71CAUVIN+ 71ROHR+ 71TELLIER
102.0	0	3.0	128.0	47.1		GT = 175.1	JENDL-1
102.95 102.95 102.95 102.2 ± 0.2 101.8 101.34 102.3 102.00 102.95 ± 0.1	0 0 0 0 0 0 0	3.0 4.0 3.0 3 3 3	118.9 92.4 131.43 156 ± 16 90 ± 7 104 ± 4	48.6 60.0 47.0 80 ± 30 69 ± 10	15.1 ± 1.5	GT = 167.5 GT = 152.4 GT = 176.43 WGM = 56 ± 4 WGO = 11 ± 0.8 WGM = 68 ± 7 GT = 235 ± 30 WGM = (56 ± 4) WMI = 20.6 ± 1.6 GT = 215 ± 15 WGO = 10.25 ± 0.39423	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71CAUVIN+ 71ROHR+ 71TELLIER
103.45 103.45 103.45 103.5 ± 0.2 103.3 102.86 103.5 103.40 103.45 ± 0.1	0 0 0 0 0 0 0	4.0 4.0 4.0 4 4 4	36.6 36.6 34.667 37.6 ± 3 38 ± 6 41.2 ± 1.2	46.3 53.9 65.0 63 ± 30 70 ± 10	11.5 ± 1 11.5 ± 0.9	GT = 82.9 GT = 90.5 GT = 99.667 WGM = 18.5 ± 2.0 WGO = 3.6 ± 0.4 WGM = 21 ± 2 GT = 110 ± 30 WGM = (18 ± 2) WMI = 30.3 ± 7.6 GT = 95 ± 15 WGO = 4.0507 ± 0.11798	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71CAUVIN+ 71ROHR+ 71TELLIER
147.1 147.1 147.1 147.3 ± 0.4 146.8 146.2 147.3 147.10 147.1 ± 0.2	0 1 0 0 0 0 0	3.0 3.0 3.0 3 3	26.3 26.3 24.0 20 ± 3 23 ± 2	47.4 60.0 50.0 (70 ± 20)	7.8 ± 0.7 7.4 ± 0.4	GT = 73.7 GT = 85.3 GT = 74.0 WGM = 10 ± 1 WGO = 1.65 ± 0.16 WGM = 7.5 ± 1 WGM = 10.3 ± 0.7 GT = 115 ± 15 WGO = 1.8964 ± 0.1649	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71CAUVIN+ 71ROHR+ 71TELLIER
151.4 151.4 151.4 151.7 ± 0.4 151.2 150.5 151.7 151.40 151.4 ± 0.2	0 1 0 0 0 0	4.0 4.0 4.0 4 4	13.5 13.5 13.067 15 ± 2 15.2 ± 0.5	37.8 60.0 50.0 (70 ± 20)	6.2 ± 0.85 5.6 ± 0.3	GT = 51.3 GT = 73.5 GT = 63.067 WGM = 7.8 ± 0.9 WGO = 1.26 ± 0.14 WGM = 5 ± 0.6 WGM = 7.1 ± 0.4 GT = 89 ± 8 WGO = 1.2353 ± 0.0406	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71CAUVIN+ 71ROHR+ 71TELLIER
169.7 169.7 169.7	0 1 0	4.0 3.5 4.0	2.24 3.2 2.6667	46.3 60.0 50.0		GT = 48.54 GT = 83.2 GT = 52.667	JENDL-2 JENDL-1 ENDF-B-4

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
342.5 342.5 342.5 343 ± 1.4	0 1 0	4.0 3.5 4.0	51.6 58.0 51.556	37.4 60.0 50.0		GT = 89.0 GT = 118.0 GT = 101.56 WGM = 5.5 ± 0.8 WGO = 0.60 ± 0.08	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+
343 342.50 342.5 ± 0.3		4	^a 56 ± 3		12.2 ± 0.7	GT = 165 ± 30 WGO = 3.134 ± 0.1621	71CAUVIN+ 71ROHR+ 71TELLIER
376.6 376.0 376.6 376 ± 1.6	1 1 0	3.5 3.5 3.5	10.2 10.2 11.2	54.8 60.0 50.0		GT = 65.0 GT = 70.2 GT = 61.2 WGM = 26 ± 4 WGO = 2.7 ± 0.4 WGM = 5.1 ± 0.3	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+ 71ROHR+
376.60					4.3 ± 0.3		
390.5 390.5 390.5 391 ± 1.7	0 1 0	4.0 3.5 4.0	90.7 46.0 40.889	17.4 60.0 50.0		GT = 108.1 GT = 106.0 GT = 90.889 WGM = 23 ± 4 WGO = 2.3 ± 0.4	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+
391 390.40 390.5 ± 0.4		4	^a 102 ± 5		8.2 ± 0.5	WGM = (23 ± 4) WMI = 12.7 ± 1.7 GT = 220 ± 50 WGO = 5.1617 ± 0.25302	71CAUVIN+ 71ROHR+ 71TELLIER
397.7 397.7 397.7 399 ± 1.7	0 1 0	3.0 3.5 3.0	30.9 27.0 30.857	88.2 60.0 50.0		GT = 119.1 GT = 87.0 GT = 80.857 WGM = 8 ± 1 WGO = 0.8 ± 0.1	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+
399 397.80 397.7 ± 0.4		3	^a 27 ± 1		10.0 ± 0.7	GT = 125 ± 50 WGO = 1.3539 ± 0.0501	71CAUVIN+ 71ROHR+ 71TELLIER
403.8 403.8 403.6 405 ± 2	0 0 0	4.0 3.5 4.0	195.6 220.0 195.56	66.1 60.0 50.0		GT = 261.7 GT = 280.0 GT = 245.56 WGM = 336 ± 58 WGO = 33 ± 6	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+
403 403.80 403.8 ± 0.4		4	^a 220 ± 20		27.8 ± 3.0	GT = 450 ± 50 WGO = 10.948 ± 0.99528	71CAUVIN+ 71ROHR+ 71TELLIER
406.2 406.2 406.2 405 406.10 406.2 ± 0.4	0 0 0	4.0 3.5 3.5	115.6 130.0 130.0	35.0 60.0 50.0		GT = 150.6 GT = 190.0 GT = 180.0	JENDL-2 JENDL-1 ENDF-B-4 71CAUVIN+ 71ROHR+ 71TELLIER
		4	^a 130 ± 5		15.1 ± 1.8	WGO = 6.4502 ± 0.24808	
445.8 445.8 445.8 447 ± 2	0 0 0	3.5 3.5 3.5	175.0 175.0 200.0	54.9 50.6 51.0		GT = 229.9 GT = 225.6 GT = 251.0 WGM = 118 ± 13 WGO = 11.1 ± 1.2 WGM = (118 ± 13) WMI = 25.3 ± 1.7 GT = 360 ± 30 WGO = 8.2883 ± 0.71043	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+
445.80 445.8 ± 0.4			^a 175 ± 15		20.9 ± 1.5		71ROHR+ 71TELLIER
464.6 464.6 464.6 466 ± 2	0 0 0	3.0 3.5 3.0	748.6 655.0 748.57	58.4 51.2 58.0		GT = 807.0 GT = 706.2 GT = 806.57 WGM = 309 ± 51 WGO = 29 ± 5 GT = 847 ± 255 WGM = 347 ± 25 GT = 850 ± 200	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+
464.8 462.1 464.70 464.6 ± 0.5		3	800 ± 60 ^a 410 ± 40 ^a 655 ± 35	46 ± 7 58 ± 6	23.7 ± 2.2	WGM = (309 ± 51) WMI = 25.6 ± 2.2 GT = 960 ± 100 WGO = 30.388 ± 1.6238	69ALVES+ 69MIGNECO+ 71ROHR+ 71TELLIER
487.1 487.1 487.1 488 ± 2	0 0 0	3.5 3.5 3.0	340.0 340.0 405.71	54.0 52.8 58.0		GT = 394.0 GT = 392.8 GT = 463.71 WGM = 198 ± 15 WGO = 17.9 ± 1.4 WGM = (198 ± 15) WMI = 25.4 ± 1.8 WGO = 15.405 ± 0.67965	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+
487.10 487.1 ± 0.5			^a 340 ± 15		23.3 ± 1.8		71ROHR+ 71TELLIER
497.2 497.2 497.2 499 ± 2	0 0 0	3.5 3.5 3.5	400.0 400.0 400.0	54.5 55.0 55.0		GT = 454.5 GT = 455.0 GT = 455.0 WGM = 187 ± 57 WGO = 15.7 ± 4.5 WGM = 200 ± 15	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+
497.3 484.7 497.20 497.2 ± 0.5			^a 225 ± 50 ^a 400 ± 20	66 ± 15	25.5 ± 3 24.0 ± 1.9	WGM = (187 ± 57) WMI = 27.5 ± 2.7 GT = 500 ± 30 WGO = 17.939 ± 0.89694	69ALVES+ 69MIGNECO+ 71ROHR+ 71TELLIER
505.4 505.4 505.4 507 ± 2	0 0 0	3.5 3.5 3.5	780.0 780.0 770.0	50.0 50.2 50.0		GT = 830.0 GT = 830.2 GT = 820.0 WGM = 350 ± 35 WGO = 31 ± 3 GT = 784 ± 182	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAYINA+

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
505.6 505.30 505.4 ± 0.5			^R 780 ± 40		23.5 ± 1.7	WGM= 490 ± 80 WGM=(350 ± 35) WMI= 25.1 ± 1.7 GT = 950 ± 90 WGO= 34.696 ± 1.7793	69ALVES+ 71ROHR+ 71TELLIER
516.5 516.5 516.6 518 ± 2 516.70 516.5 ± 0.5	0 1 0	3.5 3.5 3.5	23.0 23.0 21.2	40.0 60.0 50.0	7.3 ± 0.6	GT = 63.0 GT = 83.0 GT = 71.2 WGM= 7 ± 1 WGO= 0.62 ± 0.08 WGM= 10.2 ± 0.8 GT = 250 ± 100 WGO= 1.012 ± 0.088	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
541.4 541.4 541.5 543 ± 2 541.7 538.8 541.40 541.4 ± 0.5	0 0 0	3.5 3.5 3.5	640.0 640.0 585.0	49.3 50.0 57.0 55 ± 12	26 ± 3 22.9 ± 2.5	GT = 689.3 GT = 690.0 GT = 642.0 WGM= 265 ± 30 WGO= 23 ± 3 GT = 628 ± 248 WGM= 315 ± 25 GT = 750 ± 200 WGM=(265 ± 30) WMI= 25.0 ± 2.5 GT = 700 ± 70 WGO= 27.506 ± 2.1489	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71ROHR+ 71TELLIER
566.7 566.7 566.6 570 ± 3 566.6 565.7 568.50 566.7 ± 0.6	0 0 0	4.0 3.5 3.5	1084.0 1220.0 1190.0	47.5 53.6 54.0 67 ± 10	27 ± 3 25.6 ± 3.0	GT = 1131.5 GT = 1273.6 GT = 1244.0 WGM= 570 ± 55 WGO= 48 ± 5 WGM= 600 ± 50 GT = 1100 ± 100 WGM=(570 ± 55) WMI= 26.8 ± 3.0 GT = 1100 ± 100 WGO= 51.159 ± 2.516	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71ROHR+ 71TELLIER
590.7 590.7 590.8 590 ± 3 590.90 590.7 ± 0.6	0 1 0	3.5 3.5 3.5	13.7 13.7 12.6	29.9 60.0 50.0	4.7 ± 0.7	GT = 43.6 GT = 73.7 GT = 62.6 WGM= 4.1 ± 0.6 WGO= 0.34 ± 0.05 WGM= 5.7 ± 0.8 WGO= 0.56369 ± 0.06172	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
605.6 605.6 605.7 607 ± 3 605.80 605.6 ± 0.6	0 1 0	3.5 3.5 3.5	9.3 8.3 8.5	22.7 60.0 50.0	3.3 ± 0.8	GT = 32.0 GT = 69.3 GT = 58.5 WGM= 2.9 ± 0.5 WGO= 0.24 ± 0.05 WGM= 3.8 ± 0.8 WGO= 0.37791 ± 0.06095	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
638.8 638.9 638.9 641 ± 3 639.0 638.80 638.9 ± 0.6	0 0 0	3.5 3.5 3.0	420.0 420.0 480.0	54.4 62.0 62.0 62 ± 9	24.1 ± 2.4	GT = 474.4 GT = 482.0 GT = 542.0 WGM= 205 ± 41 WGO= 18 ± 3 WGM= 214 ± 16 GT = 500 ± 200 WGM=(205 ± 41) WMI= 27.2 ± 2.5 GT = 450 ± 30 WGO= 16.616 ± 0.79125	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 71ROHR+ 71TELLIER
647.8 647.8 647.8 650 ± 3 648.0 647.70 647.8 ± 0.6	0 1 0	3.5 3.5 3.5	134.0 134.0 134.0	51.9 60.0 50.0	18.7 ± 1.5	GT = 185.9 GT = 194.0 GT = 184.0 WGM= 24 ± 4 WGO= 1.9 ± 0.3 WGM= 66 ± 6 GT = 220 ± 60 GT = 275 ± 30 WGO= 5.2648 ± 0.19645	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 71ROHR+ 71TELLIER
659.05 659.0 659.0 659.00	1 1 0	3.5 3.5 3.5	17.4 17.4 17.4	51.4 60.0 50.0	6.5 ± 1.9	GT = 68.8 GT = 77.4 GT = 67.4 WGM= 8.7 ± 2.0	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+
667.15 667.1 667.1 661 ± 3 667.10	1 1 0	3.5 3.5 3.5	5.6 5.6 5.6	72.8 60.0 50.0	2.6 ± 1.0	GT = 78.4 GT = 65.6 GT = 55.6 WGM= 4.1 ± 0.6 WGO= 0.32 ± 0.05 WGM= 2.8 ± 1.0	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+
688.8 688.8 688.8 691 ± 3 688.80 688.8 ± 0.7	0 1 0	3.5 3.5 3.5	34.0 34.0 34.0	52.3 60.0 50.0	10.3 ± 1.1	GT = 87.3 GT = 94.0 GT = 84.0 WGM=(17) WGO=(1.3) GT = 120 ± 60 WGO= 1.2955 ± 0.0572	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
695.5 695.5 695.5 699 ± 3	0 1 0	3.5 3.5 3.5	58.0 58.0 61.0	55.8 60.0 50.0		GT = 113.6 GT = 118.0 GT = 111.0 WGM=(19) WGO=(1.4)	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
695.40 695.5 ± 0.7			^a 58 ± 3		14.2 ± 1.2	GT = 60 ±30 WGO = 2.1993±0.11376	71ROHR+ 71TELLIER
709.05 709.0 710 ± 4 709.00	1 0	3.5 3.5	29.0 34.0	87.0 50.0		GT = 116.0 GT = 84.0 WGM = (13) WGO = (0.98)	JENDL-2 ENDF-B-4 68KARZHAVINA+ 71ROHR+
715.95 715.9 719 ± 4 715.90	1 0	3.5 3.5	56.0 80.0	87.0 50.0		GT = 143.0 GT = 110.0 WGM = (13) WGO = (0.97)	JENDL-2 ENDF-B-4 68KARZHAVINA+ 71ROHR+
756.3 756.3 756.3 758 ± 4 756.30 756.3 ± 0.7	0 0 0	3.5 3.5 3.5	760.0 760.0 760.0	54.7 60.0 55.0		GT = 814.7 GT = 820.0 GT = 815.0 WGM = 600 ±60 WGO = 43 ± 5	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
762.5 762.5 762.5 762.30 762.5 ± 0.7	0 0 0	3.5 3.5 3.5	290.0 290.0 290.0	44.8 60.0 50.0		GT = 334.8 GT = 350.0 GT = 340.0 GT = 300 ±25 WGO = 10.502±0.54321	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
784.7 784.7 785.7 790 ± 4 785.50 784.7 ± 0.8	0 1 0	3.5 3.5 3.5	2.5 7.0 3.5	52.1 80.0 50.0		GT = 54.6 GT = 67.0 GT = 53.5 WGM = 1.8 ± 0.3 WGO = 0.13 ± 0.02 WGM = 1.258 ± 0.816 WGO = 0.24989±0.07140	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
820.7 820.7 820.5 820.70 820.7 ± 0.8	0 1 0	3.5 3.5 3.5	92.0 92.0 92.0	71.4 60.0 50.0		GT = 183.4 GT = 152.0 GT = 142.0 GT = 165 ±40 WGO = 3.2114±0.19863	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
829.1 829.1 829.1 831 ± 4 829.00 829.1 ± 0.8	0 0 0	3.5 3.5 3.5	360.0 360.0 360.0	81.1 80.0 50.0		GT = 421.1 GT = 420.0 GT = 410.0 WGM = 181 ±31 WGO = 13 ± 2 GT = 375 ±40 WGO = 12.51 ±0.52125	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
848.4 848.4 848.4 850 ± 4 848.50 848.4 ± 0.8	0 0 0	3.5 3.5 3.5	2600.0 2600.0 2600.0	87.3 96.8 97.0		GT = 2897.3 GT = 2896.8 GT = 2600.0 GT = 2897.0 WGM = 1450 ±200 WGO = 99 ±14 WGM = (1450 ±200) WMI = 48.4 ± 4.1 WGO = 89.283±10.3	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
880.8 880.8 880.8 880.90 880.8 ± 0.9	0 1 0	3.5 3.5 3.5	25.0 25.0 27.0	80.7 60.0 50.0		GT = 115.7 GT = 85.0 GT = 77.0 WGO = 0.84297±0.06739	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
885.0 885.0 885.0 888 ± 4 884.80 885 ± 0.9	0 1 0	3.5 3.5 3.5	46.6 46.6 50.0	55.8 60.0 50.0		GT = 102.4 GT = 106.6 GT = 100.0 WGO < 10 WGO = 1.5664± 0.0840	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
902.3 902.3 902.2 908 ± 5 902.10 902.3 ± 0.9	0 0 0	3.5 3.5 3.5	465.0 465.0 465.0	56.5 60.0 55.0		GT = 621.5 GT = 525.0 GT = 520.0 WGM = (150) WGO = (10) GT = 590 ±50 WGO = 15.48 ±0.66582	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
913.9 913.9 913.9 919 ± 5 913.60 913.9 ± 0.9	0 0 0	3.5 3.5 3.5	705.0 705.0 705.0	56.6 60.0 57.0		GT = 761.6 GT = 765.0 GT = 782.0 WGM = (200) WGO = (13) GT = 870 ±80 WGO = 23.321±0.99237	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
920.3 920.3 919.7 919.70 920.3 ± 0.9	0 1 0	3.5 3.5 3.5	81.0 81.0 82.0	42.3 60.0 50.0		GT = 123.3 GT = 141.0 GT = 112.0 WGO = 2.8701±0.16482	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
938.7 938.7 938.6 938.40 938.7 ± 0.9	0 1 0	3.5 3.5 3.5	67.0 67.0 66.0	48.7 60.0 50.0		GT = 115.7 GT = 127.0 GT = 116.0 WGO = 2.1868±0.22847	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
945.6 945.5 945.4 948 ± 5 945.30 945.5 ± 1.0	0 0 0	3.5 3.5 3.5	430.0 430.0 430.0	49.3 60.0 49.0	22.1 ± 2.2	GT = 479.3 GT = 490.0 GT = 479.0 WGM= 233 ±28 WGO= 15 ± 2 GT = 525 ±50 WGO= 13.984±0.65043	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
972.5 972.5 972.6 978 ± 5 972.40 972.5 ± 1.0	0 0 0	3.5 3.5 3.5	495.0 495.0 494.0	60.6 60.0 61.0	27.0 ± 1.9	GT = 555.6 GT = 555.0 GT = 555.0 WGM= 403 ±51 WGO= 27 ± 4 GT = 545 ±50 WGO= 15.873±0.64134	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
977.7 977.7 977.7 977.80 977.7 ± 1	0 0 0	3.5 3.5 3.5	360.0 360.0 360.0	87.5 60.0 83.0	35.2 ± 3.1	GT = 447.5 GT = 420.0 GT = 443.0 GT = 510 ±60 WGO= 11.513±0.47972	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1007.0 1007.0 1007.4 1010 ± 5 1007.7 1007 ± 1	0 0 0	3.5 3.5 3.5	960.0 960.0 960.0	119.9 60.0 50.0	53.3 ± 7.4	GT = 1079.9 GT = 1020.0 GT = 1010.0 WGM= 620 ±60 WGO= 39 ± 4 WGM=(620 ±60) WMI= 58.3 ± 7.4 GT = 850 ±100 WGO= 30.252± 1.5756	JENDL-2 JENDL-1 ENDF-B-4 68KARZHAVINA+ 71ROHR+ 71TELLIER
1009.2 1009.2 1009.2 1009.2 ± 1	0 0 0	3.5 3.5 3.5	605.0 805.0 505.0	87.0 60.0 50.0		GT = 692.0 GT = 665.0 GT = 655.0 GT = 910 ±100 WGO= 19.044±0.94435	JENDL-2 JENDL-1 ENDF-B-4 71TELLIER
1052.7 1052.7 1052.5 1054.3 1052.7 ± 1	0 0 0	3.5 3.5 3.5	660.0 660.0 660.0	101.5 60.0 50.0	44.0 ± 9.2	GT = 761.5 GT = 720.0 GT = 710.0 GT = 850 ±90 WGO= 20.342±0.92463	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1055.2 1055.2 1055.2 1055.2 ± 1	0 1 0	3.5 3.5 4.0	340.0 340.0 302.22	87.0 60.0 50.0		GT = 427.0 GT = 400.0 GT = 352.22 GT = 350 ±40 WGO= 10.467±0.46177	JENDL-2 JENDL-1 ENDF-B-4 71TELLIER
1093.3 1093.3 1093.6 1093.2 1093.3 ± 1	0 1 0	3.5 3.5 4.0	260.0 260.0 531.11	48.7 60.0 49.0	20.5 ± 3.8	GT = 308.7 GT = 320.0 GT = 680.11 GT = 270 ±60 WGO= 7.8633±0.45365	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1117.0 1117.0 1117.1 1117.1 1117 ± 1	0 1 0	3.5 3.5 3.5	270.0 270.0 270.0	35.8 60.0 50.0	15.8 ± 2.3	GT = 305.8 GT = 330.0 GT = 320.0 GT = 350 ±50 WGO= 8.0786±0.44881	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1140.2 1140.2 1141.1 1142.1 1140.2 ± 1	0 0 0	3.5 3.5 3.5	1090.0 1090.0 1090.0	92.3 60.0 50.0	42.5 ± 5.1	GT = 1182.3 GT = 1150.0 GT = 1140.0 GT = 1400 ±150 WGO= 32.28 ± 1.4807	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1162.9 1163.6 1163.6	0 0	3.5 3.5	64.0 142.0	97.0 50.0	18.5 ± 1.8	GT = 151.0 GT = 192.0	JENDL-2 ENDF-B-4 71ROHR+
1192.5 1192.5 1192.5 1192.5 ± 2	0 1 0	3.5 3.5 3.5	59.6 59.6 59.6 ± 3	87.0 60.0 50.0		GT = 146.6 GT = 119.6 GT = 109.6 WGO= 1.7259± 0.0668	JENDL-2 JENDL-1 ENDF-B-4 71TELLIER
1195.3 1195.3 1184.5 1193.9 1195.3 ± 2	0 1 0	3.5 3.5 3.5	163.0 163.0 163.0	192.1 60.0 50.0	43.0 ± 5.5	GT = 345.1 GT = 223.0 GT = 213.0 WGO= 4.7146±0.28924	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1238.4 1238.4 1238.1 1238.1 1238.4 ± 2	0 1 0	3.5 3.5 3.5	138.0 138.0 138.0	56.3 60.0 56.0	20.0 ± 2.6	GT = 194.3 GT = 198.0 GT = 194.0 WGO= 3.9215±0.14208	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1269.1 1268.6 1268.6	1 0	3.5 3.5	43.5 69.0	87.0 50.0	14.5 ± 1.8	GT = 130.5 GT = 119.0	JENDL-2 ENDF-B-4 71ROHR+
1289.0 1289.0 1289.0 1289.0 1289 ± 2	0 1 0	3.5 3.5 3.5	385.0 385.0 385.0	106.8 60.0 50.0	41.8 ± 5.0	GT = 491.8 GT = 445.0 GT = 435.0 WGO= 10.723± 0.4178	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1304.0	0	3.5	1060.0	49.0		GT = 1109.0	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GRAMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1304.0 1303.7 1303.5 1304 ± 2	0 0	3.5 4.0	1060.0 942.22 R1060 ±50	60.0 48.0	23.4 ± 2.5	GT = 1120.0 GT = 990.22 GT = 900 ±100 WGO = 29.354 ± 1.3846	JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1314.0 1313.0 1313.0 1313.0 1314 ± 2	0 1 0	3.5 3.5 3.5	184.0 184.0 78.0 R184 ±10	36.4 60.0 50.0	15.2 ± 2.1	GT = 220.4 GT = 244.0 GT = 128.0 WGO = 5.0779 ± 0.27597	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1323.3 1328.8 1328.8	1 0	3.5 3.5	9.4 9.4	53.7 60.0	4.0 ± 1.7	GT = 63.1 GT = 59.4 WGM = 4.7 ± 1.7	JENDL-2 ENDF-B-4 71ROHR+
1356.2 1357.7 1357.7	1 0	3.5 3.5	5.3 5.4	87.0 50.0	2.5 ± 1.8	GT = 92.3 GT = 55.4 WGM = 2.7 ± 1.8	JENDL-2 ENDF-B-4 71ROHR+
1380.0 1380.0 1379.0 1379.0 1380 ± 2	0 1 0	3.5 3.5 3.5	465.0 465.0 465.0 R465 ±20	51.1 60.0 51.0	23.0 ± 2.9	GT = 516.1 GT = 525.0 GT = 515.0 GT = 610 ±60 WGO = 12.517 ± 0.53838	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1397.0 1397.0 1397.0 1397.0 1397 ± 2	0 1 0	3.5 3.5 3.5	19.8 19.8 198.0 R19.8 ± 3	47.0 60.0 50.0	9.5 ± 2.4	GT = 66.8 GT = 79.8 GT = 248.0 WGO = 0.52975 ± 0.06026	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1403.0 1403.0 1403.0 1402.7 1403 ± 2	0 0 0	3.5 3.5 3.5	760.0 760.0 760.0 R760 ±40	69.4 60.0 69.0	31.8 ± 4.1	GT = 829.4 GT = 820.0 GT = 829.0 GT = 760 ±80 WGO = 20.290 ± 1.0679	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1430.0 1430.0 1430.0 1430.0 1430 ± 2	0 0 0	3.5 3.5 3.0	800.0 800.0 914.29 R800 ±40	39.9 60.0 40.0	19.0 ± 3.6	GT = 839.9 GT = 860.0 GT = 954.29 GT = 930 ±100 WGO = 21.155 ± 1.0578	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1448.0 1448.0 1448.0 1448.0 1448 ± 2	0 1 0	3.5 3.5 4.0	210.0 210.0 186.67 R210 ±10	63.6 60.0 63.0	24.4 ± 3.9	GT = 273.6 GT = 270.0 GT = 249.67 WGO = 5.5187 ± 0.26279	JENDL-2 JENDL-1 ENDF-B-4 71ROHR+ 71TELLIER
1494.0 1494.0	1	3.5	50.0	87.0	15.9 ± 3.1	GT = 137.0	JENDL-2 71ROHR+
1523.9 1523.9 1523.9 ± 1.5	0 1	3.5 3.5	405.0 405.0 R405 ±15	87.0 60.0		GT = 492.0 GT = 465.0 WGO = 10.375 ± 0.38425	JENDL-2 JENDL-1 71TELLIER
1542.0 1542.0 1542 ± 1.5	0 1	3.5 3.5	360.0 360.0 R360 ±10	87.0 60.0		GT = 447.0 GT = 420.0 WGO = 9.1677 ± 0.25466	JENDL-2 JENDL-1 71TELLIER
1553.9 1553.9 1553.9 ± 1.5	0 1	3.5 3.5	210.0 310.0 R210 ±15	87.0 60.0		GT = 297.0 GT = 370.0 WGO = 5.3273 ± 0.38082	JENDL-2 JENDL-1 71TELLIER
1562.7 1562.7 1562.7 ± 1.5	0 1	3.5 3.5	405.0 405.0 R405 ±20	87.0 60.0		GT = 492.0 GT = 465.0 GT = 445 ±100 WGO = 10.245 ± 0.50599	JENDL-2 JENDL-1 71TELLIER
1575.6 1575.6 1575.6 ± 1.5	0 0	3.5 3.5	1745.0 1745.0 R1745 ±50	87.0 60.0		GT = 1832.0 GT = 1805.0 GT = 1630 ±100 WGO = 43.961 ± 1.2596	JENDL-2 JENDL-1 71TELLIER
1611.0 1611.0 1611 ± 1.5	0 1	3.5 3.5	350.0 350.0 R350 ±20	87.0 60.0		GT = 437.0 GT = 410.0 WGO = 8.7201 ± 0.49829	JENDL-2 JENDL-1 71TELLIER
1649.6 1649.6 1649.6 ± 1.5	0 1	3.5 3.5	130.0 130.0 R130 ±15	87.0 60.0		GT = 217.0 GT = 190.0 WGO = 3.2008 ± 0.36932	JENDL-2 JENDL-1 71TELLIER
1658.0 1658.0 1658 ± 2	0 0	3.5 3.5	1125.0 1125.0 R1125 ±50	87.0 60.0		GT = 1212.0 GT = 1185.0 GT = 1240 ±120 WGO = 27.629 ± 1.2279	JENDL-2 JENDL-1 71TELLIER
1675.4 1675.4 1675.4 ± 2	0 1	3.5 3.5	72.0 72.0 R72 ± 7	87.0 60.0		GT = 159.0 GT = 132.0 WGO = 1.759 ± 0.17102	JENDL-2 JENDL-1 71TELLIER
1689.4 1689.4 1689.4 ± 2	0 1	3.5 3.5	50.0 50.0 R50 ± 5	87.0 60.0		GT = 137.0 GT = 110.0 WGO = 1.2165 ± 0.12165	JENDL-2 JENDL-1 71TELLIER
1707.6 1707.6 1707.6 ± 2	0 0	3.5 3.5	1205.0 1205.0 R1205 ±50	87.0 60.0		GT = 1292.0 GT = 1265.0 GT = 1200 ±120 WGO = 29.16 ± 1.21	JENDL-2 JENDL-1 71TELLIER
1727.0 1727.0	0 1	3.5 3.5	455.0 455.0	87.0 60.0		GT = 542.0 GT = 515.0	JENDL-2 JENDL-1

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1727 ± 2			^a 455 ±20			WGO= 10.949±0.46126	71TELLIER
1791.0	0	3.5	810.0	87.0		GT = 897.0	JENDL-2
1791.0	0	3.5	810.0	60.0		GT = 870.0	JENDL-1
1791 ± 2			^a 810 ±40			WGO= 19.14 ±0.94517	71TELLIER
1797.4	0	3.5	2850.0	87.0		GT = 2937.0	JENDL-2
1797.4	0	3.5	2850.0	60.0		GT = 2910.0	JENDL-1
1797.4 ± 2			^a 2850 ±80			GT = 2100 ±200 WGO= 67.224± 1.887	71TELLIER
1806.7	0	3.5	500.0	87.0		GT = 587.0	JENDL-2
1806.7	1	3.5	500.0	60.0		GT = 560.0	JENDL-1
1806.7 ± 2			^a 500 ±30			GT = 390 ±120 WGO= 11.763±0.70579	71TELLIER
1816.2	0	3.5	1010.0	87.0		GT = 1097.0	JENDL-2
1816.2	0	3.5	1010.0	60.0		GT = 1070.0	JENDL-1
1816.2 ± 2			^a 1010 ±50			WGO= 23.7 ± 1.1732	71TELLIER
1851.5	0	3.5	2320.0	87.0		GT = 2407.0	JENDL-2
1851.5	0	3.5	2320.0	60.0		GT = 2380.0	JENDL-1
1851.5 ± 2			^a 2320 ±100			GT = 2600 ±200 WGO= 53.917± 2.3240	71TELLIER
1887.0	0	3.5	1190.0	87.0		GT = 1277.0	JENDL-2
1887.0	0	3.5	1190.0	60.0		GT = 1250.0	JENDL-1
1887 ± 2			^a 1190 ±50			GT = 1540 ±150 WGO= 27.394± 1.151	71TELLIER
1900.3	0	3.5	160.0	87.0		GT = 247.0	JENDL-2
1900.3	1	3.5	160.0	60.0		GT = 220.0	JENDL-1
1900.3 ± 2			^a 160 ±10			WGO= 3.6704± 0.2294	71TELLIER
1910.5	0	3.5	500.0	87.0		GT = 587.0	JENDL-2
1910.5	1	3.5	500.0	60.0		GT = 560.0	JENDL-1
1910.5 ± 2			^a 500 ±25			GT = 650 ±150 WGO= 11.439±0.57196	71TELLIER
1917.4	0	3.5	1020.0	87.0		GT = 1107.0	JENDL-2
1917.4	0	3.5	1020.0	60.0		GT = 1080.0	JENDL-1
1917.4 ± 2			^a 1020 ±50			GT = 1180 ±150 WGO= 23.294± 1.1419	71TELLIER
1924.9	0	3.5	530.0	87.0		GT = 617.0	JENDL-2
1924.9	1	3.5	530.0	60.0		GT = 590.0	JENDL-1
1924.9 ± 2			^a 530 ±25			GT = 410 ±150 WGO= 12.08 ±0.56982	71TELLIER
1947.0	0	3.5	123.0	87.0		GT = 210.0	JENDL-2
1947.0	0	3.5	123.0	60.0		GT = 183.0	JENDL-1
1947 ± 2			^a 123 ±10			WGO= 2.7875±0.22663	71TELLIER
1986.0	0	3.5	1490.0	87.0		GT = 1577.0	JENDL-2
1986.0	0	3.5	1490.0	60.0		GT = 1550.0	JENDL-1
1986 ± 2			^a 1490 ±60			GT = 1810 ±200 WGO= 33.435± 1.3454	71TELLIER
1998.0	0	3.5	197.0	87.0		GT = 284.0	JENDL-2
1998.0	1	3.5	197.0	60.0		GT = 257.0	JENDL-1
1998 ± 2			^a 197 ±10			WGO= 4.4073±0.22372	71TELLIER
2022.5	0	3.5	2365.0	87.0		GT = 2452.0	JENDL-2
2022.5	0	3.5	2365.0	60.0		GT = 2425.0	JENDL-1
2022.5 ± 2			^a 2365 ±100			WGO= 52.588± 2.2236	71TELLIER
2066.1	0	3.5	525.0	87.0		GT = 612.0	JENDL-2
2066.1	1	3.5	525.0	60.0		GT = 585.0	JENDL-1
2066.1 ± 2			^a 525 ±25			WGO= 11.544±0.54974	71TELLIER
2101.0	0	3.5	55.0	87.0		GT = 142.0	JENDL-2
2101.0	1	3.5	55.0	60.0		GT = 115.0	JENDL-1
2101 ± 2			^a 55 ±15			WGO= 1.1999±0.32725	71TELLIER
2132.6	0	3.5	620.0	87.0		GT = 707.0	JENDL-2
2132.6	1	3.5	620.0	60.0		GT = 680.0	JENDL-1
2132.6 ± 2			^a 620 ±40			WGO= 13.426±0.86617	71TELLIER
2143.4	0	3.5	325.0	87.0		GT = 412.0	JENDL-2
2143.4	1	3.5	325.0	60.0		GT = 385.0	JENDL-1
2143.4 ± 2			^a 325 ±25			WGO= 7.0199±0.53999	71TELLIER
2157.2	0	3.5	390.0	87.0		GT = 477.0	JENDL-2
2157.2	1	3.5	390.0	60.0		GT = 450.0	JENDL-1
2157.2 ± 2			^a 390 ±20			WGO= 8.3969±0.43061	71TELLIER
2183.5	0	3.5	89.0	87.0		GT = 176.0	JENDL-2
2183.5	1	3.5	89.0	60.0		GT = 149.0	JENDL-1
2183.5 ± 2			^a 89 ±15			WGO= 1.8046± 0.321	71TELLIER
2192.6	0	3.5	1520.0	87.0		GT = 1607.0	JENDL-2
2192.6	0	3.5	1520.0	60.0		GT = 1580.0	JENDL-1
2192.6 ± 2			^a 1520 ±80			WGO= 32.461± 1.7085	71TELLIER
2225.4	0	3.5	500.0	87.0		GT = 587.0	JENDL-2
2225.4	1	3.5	500.0	60.0		GT = 560.0	JENDL-1
2225.4 ± 2.5			^a 500 ±25			WGO= 10.539±0.52995	71TELLIER
2257.0	0	3.5	114.0	87.0		GT = 201.0	JENDL-2
2257.0	1	3.5	114.0	60.0		GT = 174.0	JENDL-1
2257 ± 2.5			^a 114 ±15			GT = 390 ±200 WGO= 2.3943±0.31504	71TELLIER
2283.3	0	3.5	495.0	87.0		GT = 582.0	JENDL-2
2283.3	1	3.5	495.0	60.0		GT = 555.0	JENDL-1
2283.3 ± 2.5			^a 495 ±30			GT = 480 ±150 WGO= 10.359±0.62783	71TELLIER

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
2294.4 2294.4 2294.4 ± 2.5	0 1	3.5 3.5	620.0 620.0 ^a 620 ±35	87.0 60.0		GT = 707.0 GT = 690.0 WGO = 12.944 ± 0.73069	JENDL-2 JENDL-1 7ITELLIER
2329.2 2329.2 2329.2 ± 2.5	0 1	3.5 3.5	470.0 470.0 ^a 470 ±30	87.0 60.0		GT = 557.0 GT = 530.0 WGO = 9.7386 ± 0.62161	JENDL-2 JENDL-1 7ITELLIER
2345.3 2345.3 2345.3 ± 2.5	0 1	3.5 3.5	805.0 805.0 ^a 805 ±40	87.0 60.0		GT = 892.0 GT = 865.0 WGO = 16.623 ± 0.82596	JENDL-2 JENDL-1 7ITELLIER
2396.4 2396.4 2396.4 ± 2.5	0 1	3.5 3.5	630.0 630.0 ^a 630 ±40	87.0 60.0		GT = 717.0 GT = 690.0 WGO = 12.869 ± 0.81711	JENDL-2 JENDL-1 7ITELLIER
2421.5 2421.5 2421.5 ± 2.5	0 1	3.5 3.5	680.0 680.0 ^a 680 ±40	87.0 60.0		GT = 767.0 GT = 740.0 WGO = 13.819 ± 0.61266	JENDL-2 JENDL-1 7ITELLIER
2443.1 2443.1 2443.1 ± 2.5	0 1	3.5 3.5	440.0 446.0 ^a 440 ±30	87.0 60.0		GT = 527.0 GT = 506.0 WGO = 8.9019 ± 0.60695	JENDL-2 JENDL-1 7ITELLIER
2465.6 2465.6 2465.6 ± 2.5	0 0	3.5 3.5	3160.0 3160.0 ^a 3160 ±100	87.0 60.0		GT = 3247.0 GT = 3220.0 WGO = 63.639 ± 2.0139	JENDL-2 JENDL-1 7ITELLIER
2485.6 2485.6 2485.6 ± 2.5	0 1	3.5 3.5	90.0 92.0 ^a 90 ±20	87.0 60.0		GT = 177.0 GT = 152.0 WGO = 1.8052 ± 0.40116	JENDL-2 JENDL-1 7ITELLIER
2511.1 2511.1 2511.1 ± 2.5	0 0	3.5 3.5	2525.0 2525.0 ^a 2525 ±100	87.0 60.0		GT = 2612.0 GT = 2585.0 WGO = 50.388 ± 1.9956	JENDL-2 JENDL-1 7ITELLIER
2541.7 2541.7 2541.7 ± 3	0 0	3.5 3.5	3490.0 3490.0 ^a 3490 ±150	87.0 60.0		GT = 3577.0 GT = 3550.0 WGO = 89.225 ± 2.9753	JENDL-2 JENDL-1 7ITELLIER
2569.7 2569.7 2569.7 ± 3	0 0	3.5 3.5	2385.0 2385.0 ^a 2385 ±120	87.0 60.0		GT = 2472.0 GT = 2445.0 WGO = 47.049 ± 2.3672	JENDL-2 JENDL-1 7ITELLIER
2592.0 2592 ± 3	1	3.5	81.4	87.0	18 ± 2	GT = 148.4	JENDL-2 77MUSGROVE+
2604.0 2604.0 2604.0 ± 3 2604 ± 3	0 1	3.5 3.5	560.0 560.0 ^a 560 ±60 (560)	77.0 60.0 ^b 77 ± 8	34 ± 4	GT = 537.0 GT = 520.0 WGO = 10.974 ± 1.1758	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2622.8 2623 ± 3	1	3.5	67.4	87.0	19 ± 2	GT = 154.4	JENDL-2 77MUSGROVE+
2683.2 2683.2 2683.2 ± 3 2684 ± 3	0 1	3.5 3.5	410.0 410.0 ^a 410 ±45 (410)	54.0 60.0 ^b 54 ± 7	24 ± 3	GT = 464.0 GT = 470.0 WGO = 7.9151 ± 0.86873	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2707.2 2708 ± 3	1	3.5	45.8	87.0	15 ± 2	GT = 132.8	JENDL-2 77MUSGROVE+
2735.4 2735.4 2735.4 ± 3 2736 ± 3	0 1	3.5 3.5	420.0 420.0 ^a 420 ±50 (420)	75.0 60.0 ^b 75 ± 9	32 ± 4	GT = 495.0 GT = 480.0 WGO = 8.0304 ± 0.956	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2744.4 2744.4 2744.4 ± 3 2745 ± 3	0 1	3.5 3.5	620.0 620.0 ^a 620 ±60 (620)	74.0 60.0 ^b 74 ± 8	33 ± 4	GT = 694.0 GT = 680.0 WGO = 11.835 ± 1.1453	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2754.0 2754.0 2754 ± 3 2755 ± 3	0 1	3.5 3.5	500.0 500.0 ^a 500 ±60 (500)	60.0 60.0 ^b 60 ± 7	27 ± 3	GT = 660.0 GT = 660.0 WGO = 11.433 ± 1.1433	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2781.4 2781.4 2781.4 ± 3 2781 ± 3	0 1	3.5 3.5	5660.0 5660.0 ^a 5660 ±400 (5660)	111.0 60.0 ^b 111 ±12	55 ± 5	GT = 5771.0 GT = 5720.0 WGO = 107.32 ± 7.5845	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2788.8 2788.8 2788.8 ± 3 2792 ± 3	0 0	3.5 3.5	3190.0 3190.0 ^a 3190 ±300 (3190)	79.0 60.0 ^b 79 ±10	38 ± 4	GT = 3269.0 GT = 3250.0 WGO = 60.406 ± 5.6808	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2820.5 2819 ± 3	1	3.5	50.6	87.0	16 ± 2	GT = 137.6	JENDL-2 77MUSGROVE+
2840.8 2840.8 2840.8 ± 3 2839 ± 3	0 0	3.5 3.5	4625.0 4625.0 ^a 4625 ±250 3000 ±1000	164.0 60.0 ^b 167 ±25	79 ± 8	GT = 4789.0 GT = 4685.0 WGO = 86.774 ± 4.6905	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2882.1 2882.1 2882.1 ± 3 2882 ± 3	0 0	3.5 3.5	2700.0 2700.0 ^a 2700 ±150 (2700)	86.0 60.0 ^b 86 ± 9	42 ± 4	GT = 2788.0 GT = 2760.0 WGO = 50.293 ± 2.7941	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2891.8 2891.8 2891.8 ± 3 2893 ± 3	0 1	3.5 3.5	1095.0 1095.0 ^a 1095 ±100 (1095)	74.0 60.0 ^b 74 ± 8	35 ± 4	GT = 1169.0 GT = 1155.0 WGO = 20.362 ± 1.8596	JENDL-2 JENDL-1 7ITELLIER 77MUSGROVE+
2903.3	1	3.5	50.6	87.0		GT = 137.6	JENDL-2

ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
2907 ± 3					16 ± 2		77MUSGROVE+
2915.8	0	3.5	940.0	74.0		GT = 1014.0	JENDL-2
2915.8	1	3.5	940.0	60.0		GT = 1000.0	JENDL-1
2915.8 ± 3			^a 940 ±100	^b 74 ± 8	34 ± 4	WGO= 17.405± 1.8516	71TELLIER
2921 ± 3			(940)				77MUSGROVE+
2930.6	0	3.5	7640.0	173.0		GT = 7813.0	JENDL-2
2930.6	0	3.5	7640.0	60.0		GT = 7700.0	JENDL-1
2930.6 ± 3			^a 7640 ±300	^b 173 ±20	85 ± 9	WGO= 141.13 ± 5.5417	71TELLIER
2935 ± 3			(7640)				77MUSGROVE+
2955.2	1	3.5	89.0	87.0		GT = 177.0	JENDL-2
2959 ± 3					22 ± 2		77MUSGROVE+
2993.3	0	3.5	1360.0	89.0		GT = 1449.0	JENDL-2
2993.3 ± 3			^a 1360 ±100	^b 89 ± 9	42 ± 4	WGO= 24.858± 1.8278	71TELLIER
2995 ± 3			(1360)				77MUSGROVE+
3003.6	1	3.5	55.8	87.0		GT = 142.8	JENDL-2
3005 ± 3					17 ± 2		77MUSGROVE+
3021.8	0	3.5	3100.0	85.0		GT = 3185.0	JENDL-2
3021.8	0	3.5	3100.0	60.0		GT = 3160.0	JENDL-1
3021.8 ± 3			^a 3100 ±150	^b 85 ± 9	42 ± 4	WGO= 58.393± 2.7287	71TELLIER
3023 ± 3			(3100)				77MUSGROVE+
3047.0	0	3.5	1230.0	116.0		GT = 1346.0	JENDL-2
3047.0	1	3.5	1230.0	60.0		GT = 1290.0	JENDL-1
3047.0 ± 3			^a 1230 ±100	^b 116 ±15	53 ± 5	WGO= 22.283± 1.8116	71TELLIER
3048 ± 3			(1230)				77MUSGROVE+
3064.2	0	3.5	415.0	99.0		GT = 514.0	JENDL-2
3064.2	1	3.5	415.0	60.0		GT = 475.0	JENDL-1
3064.2 ± 3			^a 415 ±60	^b 99 ±10	40 ± 4	WGO= 7.497± 1.0639	71TELLIER
3064 ± 3			(415)				77MUSGROVE+
3074.0	0	3.5	95.0	149.0		GT = 244.0	JENDL-2
3074.0	1	3.5	95.0	60.0		GT = 155.0	JENDL-1
3074.0 ± 3			^a 95 ±30	^b 62 ± 7	29 ± 3	WGO= 1.7135±0.54109	71TELLIER
3075 ± 3			(950)				77MUSGROVE+
3108.5	0	3.5	480.0	72.0		GT = 552.0	JENDL-2
3108.5	1	3.5	480.0	60.0		GT = 540.0	JENDL-1
3108.5 ± 3			^a 480 ±50	^b 72 ± 8	31 ± 3	WGO= 8.6093± 0.8968	71TELLIER
3109 ± 3			(480)				77MUSGROVE+
3118.3	0	3.5	1620.0	88.0		GT = 1708.0	JENDL-2
3118.3	0	3.5	1600.0	60.0		GT = 1660.0	JENDL-1
3118.3 ± 3			^a 1620 ±80	^b 88 ±10	42 ± 5	WGO= 29.011± 1.4326	71TELLIER
3119 ± 3			(1620)				77MUSGROVE+
3145.3	1	3.5	29.4	87.0		GT = 116.4	JENDL-2
3146 ± 3					11 ± 2		77MUSGROVE+
3166.1	0	3.5	1500.0	77.0		GT = 1577.0	JENDL-2
3166.1	0	3.5	1500.0	60.0		GT = 1560.0	JENDL-1
3166.1 ± 3			^a 1500 ±75	^b 77 ± 9	36 ± 4	WGO= 26.658± 1.9329	71TELLIER
3167 ± 3			(1500)				77MUSGROVE+
3181.0	1	3.5	417.6	87.0		GT = 504.6	JENDL-2
3182 ± 3					36 ± 4		77MUSGROVE+
3194.9	1	3.5	67.4	87.0		GT = 154.4	JENDL-2
3196 ± 3					19 ± 2		77MUSGROVE+
3219.4	0	3.5	910.0	164.0		GT = 1074.0	JENDL-2
3219.4	1	3.5	910.0	60.0		GT = 970.0	JENDL-1
3219.4 ± 3			^a 910 ±60	^b 164 ±20	69 ± 8	WGO= 16.038± 1.0575	71TELLIER
3221 ± 3			(910)				77MUSGROVE+
3241.8	0	3.5	880.0	87.0		GT = 967.0	JENDL-2
3241.8	1	3.5	880.0	60.0		GT = 940.0	JENDL-1
3241.8 ± 3.5			^a 880 ±100			WGO= 15.456± 1.7563	71TELLIER
3243 ± 3							77MUSGROVE+
3252.0	0	3.5	1980.0	119.0		GT = 2098.0	JENDL-2
3252.0	0	3.5	1980.0	60.0		GT = 2040.0	JENDL-1
3252 ± 3.5			^a 1980 ±120	^b 119 ±15	56 ± 6	WGO= 34.721± 2.1043	71TELLIER
3252 ± 3			(1980)				77MUSGROVE+
3256.9	1	3.5	61.4	87.0		GT = 148.4	JENDL-2
3258 ± 3					18 ± 2		77MUSGROVE+
3287.5	0	3.5	2200.0	87.0		GT = 2287.0	JENDL-2
3287.5	0	3.5	2200.0	60.0		GT = 2260.0	JENDL-1
3287.5 ± 3.5			^a 2200 ±100	^b 87 ±10	42 ± 5	WGO= 38.37 ± 1.7441	71TELLIER
3288 ± 3			(2200)				77MUSGROVE+
3306.0	0	3.5	950.0	78.0		GT = 1028.0	JENDL-2
3306.0	1	3.5	950.0	60.0		GT = 1010.0	JENDL-1
3306 ± 3.5			^a 950 ±80	^b 78 ±10	36 ± 4	WGO= 15.522± 1.3914	71TELLIER
3307 ± 3			(950)				77MUSGROVE+
3327.0	0	3.5	110.0	268.0		GT = 378.0	JENDL-2
3327.0	1	3.5	110.0	60.0		GT = 170.0	JENDL-1
3327 ± 4			^a 110 ±30	^b 84 ±10	39 ± 4	WGO= 1.9071±0.52011	71TELLIER
3328 ± 3			(1100)				77MUSGROVE+
3347.0	0	3.5	67.0	87.0		GT = 154.0	JENDL-2
3347.0	1	3.5	30.0	60.0		GT = 90.0	JENDL-1
3347 ± 4			^a 30 ±15		19 ± 2	WGO= 0.51855±0.25928	71TELLIER
3346 ± 3							77MUSGROVE+
3369.0	0	3.5	460.0	63.8		GT = 523.8	JENDL-2
3369.0	1	3.5	460.0	60.0		GT = 520.0	JENDL-1

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3369 ± 4 3369 ± 3			^A 460 ± 45 (460)		28 ± 3	WGO = 7.9251 ± 0.77529	71TELLIER 77MUSGROVE+
3395.2 3395 ± 3	0	3.5	1000.0 (1000)	66.0 ^B 56 ± 10	31 ± 3	GT = 1066.0	JENDL-2 77MUSGROVE+
3405.0 3405.0 3405 ± 4 3406 ± 3	0 0	3.5 3.5	3600.0 3600.0 ^A 3600 ± 100 (2600)	63.0 60.0 ^B 64 ± 7	31 ± 3	GT = 3663.0 GT = 3660.0 WGO = 61.694 ± 1.7137	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3437.4 3437 ± 3	1	3.5	26.0	87.0	10 ± 2	GT = 113.0	JENDL-2 77MUSGROVE+
3453.0 3453.0 3453 ± 4 3454 ± 3	0 1	3.5 3.5	810.0 810.0 ^A 810 ± 60 (810)	74.0 60.0 ^B 74 ± 10	34 ± 4	GT = 884.0 GT = 870.0 WGO = 13.784 ± 1.0211	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3477.0 3477.0 3477 ± 4 3477 ± 3	0 1	3.5 3.5	1480.0 1480.0 ^A 1480 ± 80 (1480)	72.0 60.0 ^B 72 ± 9	34 ± 4	GT = 1552.0 GT = 1540.0 WGO = 25.099 ± 1.3567	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3515.0 3515.0 3515 ± 4 3513 ± 3	0 0	3.5 3.5	1680.0 1680.0 ^A 1680 ± 100 (1680)	122.0 60.0 ^B 122 ± 15	57 ± 6	GT = 1802.0 GT = 1740.0 WGO = 28.337 ± 1.6667	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3528.0 3528.0 3528 ± 4 3527 ± 3	0 1	3.5 3.5	1500.0 1500.0 ^A 1500 ± 120 (1500)	141.0 80.0 ^B 141 ± 20	64 ± 7	GT = 1641.0 GT = 1560.0 WGO = 25.254 ± 2.0209	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3540.0 3540 ± 3	0	3.5	500.0 (500)	107.0 ^B 107 ± 20	44 ± 5	GT = 607.0	JENDL-2 77MUSGROVE+
3552.8 3553 ± 3	1	3.5	26.0	87.0	10 ± 2	GT = 113.0	JENDL-2 77MUSGROVE+
3591.0 3591.0 3591 ± 4 3592 ± 3	0 1	3.5 3.5	560.0 560.0 ^A 560 ± 60 (560)	57.0 60.0 ^B 57 ± 8	26 ± 3	GT = 617.0 GT = 620.0 WGO = 9.345 ± 1.0013	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3608.0 3608.0 3608 ± 4 3609 ± 3	0 1	3.5 3.5	580.0 580.0 ^A 580 ± 60 (580)	66.0 60.0 ^B 66 ± 8	30 ± 3	GT = 646.0 GT = 640.0 WGO = 9.6559 ± 0.99889	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3642.0 3643 ± 3	1	3.5	107.0	87.0	24 ± 3	GT = 194.0	JENDL-2 77MUSGROVE+
3662.0 3662.0 3662 ± 4 3663 ± 3	0 1	3.5 3.5	1610.0 1610.0 ^A 1610 ± 150 (1610)	72.0 60.0 ^B 72 ± 9	35 ± 4	GT = 1582.0 GT = 1570.0 WGO = 24.953 ± 2.4787	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3681.0 3681.0 3681 ± 4 3683 ± 3	0 1	3.5 3.5	1500.0 1500.0 ^A 1500 ± 100 (1500)	75.0 60.0 ^B 75 ± 9	36 ± 4	GT = 1575.0 GT = 1660.0 WGO = 24.723 ± 1.6482	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3697.0 3697.0 3697 ± 4 3697 ± 3	0 1	3.5 3.5	550.0 550.0 ^A 550 ± 60 (550)	86.0 60.0 ^B 86 ± 10	37 ± 4	GT = 636.0 GT = 610.0 WGO = 9.3455 ± 0.98679	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3744.0 3744.0 3744 ± 5 3747 ± 3	0 0	3.5 3.5	3270.0 3270.0 ^A 3270 ± 120 (3270)	149.0 60.0 ^B 149 ± 18	71 ± 8	GT = 3419.0 GT = 3330.0 WGO = 53.442 ± 1.9612	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3795.0 3795.0 3795 ± 5 3796 ± 3	0 1	3.5 3.5	1450.0 1450.0 ^A 1450 ± 100 (1450)	56.0 60.0 ^B 56 ± 7	27 ± 3	GT = 1506.0 GT = 1510.0 WGO = 23.538 ± 1.6233	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3817.0 3817.0 3817 ± 5 3817 ± 3	0 0	3.5 3.5	1770.0 1770.0 ^A 1770 ± 120 (1770)	76.0 60.0 ^B 76 ± 9	36 ± 4	GT = 1846.0 GT = 1830.0 WGO = 28.649 ± 1.9423	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3823.0 3824 ± 3	1	3.5	311.4	87.0	34 ± 4	GT = 398.4	JENDL-2 77MUSGROVE+
3855.0 3855.0 3855 ± 5 3856 ± 3	0 1	3.5 3.5	1010.0 1010.0 ^A 1010 ± 100 (1010)	35.0 60.0 ^B 35 ± 5	17 ± 2	GT = 1045.0 GT = 1070.0 WGO = 16.267 ± 1.6106	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3858.8 3859 ± 3	1	3.5	41.2	87.0	14 ± 2	GT = 128.2	JENDL-2 77MUSGROVE+
3873.0 3873.0 3873 ± 5 3870 ± 3	0 0	3.5 3.5	7440.0 7440.0 ^A 7440 ± 200 (7440)	84.0 60.0 ^B 84 ± 9	41 ± 4	GT = 7524.0 GT = 7500.0 WGO = 119.55 ± 3.2137	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3879.2 3879 ± 3	1	3.5	117.6	87.0	25 ± 3	GT = 204.6	JENDL-2 77MUSGROVE+
3903.0 3903.0 3903 ± 5 3904 ± 3	0 1	3.5 3.5	520.0 520.0 ^A 520 ± 60 (520)	138.0 60.0 ^B 138 ± 16	54 ± 6	GT = 658.0 GT = 580.0 WGO = 8.3235 ± 0.9604	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3936.5 3936 ± 3	1	3.5	174.0	87.0	29 ± 3	GT = 261.0	JENDL-2 77MUSGROVE+
3956.0 3956.0 3956 ± 5 3954 ± 3	0 0	3.5 3.5	5030.0 5030.0 5030 ±250 (5030)	126.0 60.0 126 ±15	62 ± 7	GT = 5156.0 GT = 5090.0 WGO= 79.972* 3.9748	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
3981.0 3981.0 3981 ± 5 3982 ± 3	0 0	3.5 3.5	8170.0 8170.0 8170 ±400	84.9 60.0	42 ± 5	GT = 8254.9 GT = 8230.0 WGO= 129.49 ± 6.9396	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4004.0 4004.0 4004 ± 5 4004 ± 3	0 1	3.5 3.5	3060.0 3060.0 3060 ±200 (3060)	153.0 60.0 153 ±20	73 ± 8	GT = 3213.0 GT = 3120.0 WGO= 48.359* 3.1607	JENDL-2 JENDL-1 71TELLIER 77MUSGROVE+
4057.0 4057.0 4057 ± 5	0 0	3.5 3.5	2000.0 2000.0 2000 ±150	87.0 60.0		GT = 2087.0 GT = 2060.0 WGO= 31.361* 2.3521	JENDL-2 JENDL-1 71TELLIER
4118.0 4118.0 4118 ± 5	0 1	3.5 3.5	570.0 570.0 570 ±90	87.0 60.0		GT = 657.0 GT = 630.0 WGO= 8.8824* 1.4025	JENDL-2 JENDL-1 71TELLIER
4157.0 4157.0 4157 ± 5	0 1	3.5 3.5	440.0 440.0 440 ±60	87.0 60.0		GT = 527.0 GT = 500.0 WGO= 6.8162*0.92948	JENDL-2 JENDL-1 71TELLIER
4209.0 4209.0 4209 ± 5	0 1	3.5 3.5	1230.0 1230.0 1230 ±120	87.0 60.0		GT = 1317.0 GT = 1290.0 WGO= 18.959* 1.8497	JENDL-2 JENDL-1 71TELLIER
4228.0 4228.0 4228 ± 5	0 1	3.5 3.5	900.0 900.0 900 ±100	87.0 60.0		GT = 987.0 GT = 960.0 WGO= 19.841* 1.5379	JENDL-2 JENDL-1 71TELLIER
4245.0 4245.0 4245 ± 5	0 0	3.5 3.5	3770.0 3770.0 3770 ±150	87.0 60.0		GT = 3857.0 GT = 3830.0 WGO= 57.863* 2.3022	JENDL-2 JENDL-1 71TELLIER
4263.0 4263.0 4263 ± 5	0 1	3.5 3.5	420.0 420.0 420 ±60	87.0 60.0		GT = 507.0 GT = 480.0 WGO= 6.4327*0.91895	JENDL-2 JENDL-1 71TELLIER
4307.0 4307.0 4307 ± 5	0 0	3.5 3.5	3460.0 3460.0 3460 ±150	87.0 60.0		GT = 3547.0 GT = 3520.0 WGO= 52.722* 2.2856	JENDL-2 JENDL-1 71TELLIER
4344.0 4344.0 4344 ± 5	0 0	3.5 3.5	2000.0 2000.0 2000 ±120	87.0 60.0		GT = 2087.0 GT = 2060.0 WGO= 30.345* 1.8207	JENDL-2 JENDL-1 71TELLIER
4365.0 4365.0 4365 ± 5	0 0	3.5 3.5	1950.0 1950.0 1950 ±150	87.0 60.0		GT = 2037.0 GT = 2010.0 WGO= 29.515* 2.2704	JENDL-2 JENDL-1 71TELLIER
4414.0 4414.0 4414 ± 5	0 1	3.5 3.5	60.0 60.0 60 ±40	87.0 60.0		GT = 147.0 GT = 120.0 WGO= 0.9031*0.80207	JENDL-2 JENDL-1 71TELLIER
4439.0 4439.0 4439 ± 5	0 1	3.5 3.5	1400.0 1400.0 1400 ±100	87.0 60.0		GT = 1487.0 GT = 1460.0 WGO= 21.013* 1.5009	JENDL-2 JENDL-1 71TELLIER
4493.0 4493.0 4493 ± 5	0 1	3.5 3.5	1400.0 1400.0 1400 ±100	87.0 60.0		GT = 1487.0 GT = 1460.0 WGO= 20.886* 1.4919	JENDL-2 JENDL-1 71TELLIER
4524.0 4524.0 4524 ± 5	0 1	3.5 3.5	1500.0 1500.0 1500 ±100	87.0 60.0		GT = 1587.0 GT = 1560.0 WGO= 22.301* 1.4858	JENDL-2 JENDL-1 71TELLIER
4562.0 4562.0 4562 ± 5	0 1	3.5 3.5	440.0 440.0 440 ±60	87.0 60.0		GT = 527.0 GT = 500.0 WGO= 6.5144*0.88833	JENDL-2 JENDL-1 71TELLIER
4613.0 4613.0 4613 ± 5	0 1	3.5 3.5	1700.0 1700.0 1700 ±100	87.0 60.0		GT = 1787.0 GT = 1760.0 WGO= 25.03 ± 1.4723	JENDL-2 JENDL-1 71TELLIER
4637.0 4637.0 4637 ± 5	0 1	3.5 3.5	520.0 520.0 520 ±60	87.0 60.0		GT = 607.0 GT = 580.0 WGO= 7.6363*0.88112	JENDL-2 JENDL-1 71TELLIER

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
-200	0	0.5	3480	49.5		GT = 3529.5 COM= M-L-B-K	JENDL-2
359.5	0	0.5	44.5	51.0		GT = 95.5	JENDL-2
359.5	0	0.5	44.0	55.0		GT = 99.0	JENDL-1.5
359.5	0	0.5	44.0	55.0		GT = 99.0	ENDF-B-4
361 ± 1			43 ± 7	55 ± 8		GNO= 2.3 ± 0.4	68KARZHAVINA+
359.5 ± 0.3				65.5 ± 20.156		WGN= 89 ± 5 GT = 110 ± 20	71TELLIER
625.0	0	0.5	5.05	51.0		GT = 56.05	JENDL-2
625.0	0	0.5	5.0	55.0		GT = 60.0	JENDL-1.5
625.0	0	0.5	5.0	55.0		GT = 60.0	ENDF-B-4
625 ± 3						GNO=< 2	68KARZHAVINA+
625.0 ± 0.6						WGN= 10.1 ± 0.5	71TELLIER
723.4	0	0.5	10.5	51.0		GT = 61.5	JENDL-2
723.4	0	0.5	10.5	55.0		GT = 65.5	JENDL-1.5
723.4	0	0.5	10.5	55.0		GT = 65.5	ENDF-B-4
723.4 ± 0.8						WGN= 21.0 ± 0.6	71TELLIER
809.5	0	0.5	1000.0	51.0		GT = 1051.0	JENDL-2
809.5	0	0.5	1080.0	55.0		GT = 1135.0	JENDL-1.5
809.5	0	0.5	1080.0	55.0		GT = 1135.0	ENDF-B-4
813 ± 3			1160 ± 100	55 ± 8		GNO= 41 ± 3.5 GT = 1200 ± 450	68KARZHAVINA+
809.5 ± 1.0						WGN= 2000 ± 300	71TELLIER
953.0	0	0.5	5.0	51.0		GT = 56.0	JENDL-2
953.0	0	0.5	5.0	55.0		GT = 60.0	JENDL-1.5
953.0	0	0.5	5.0	55.0		GT = 60.0	ENDF-B-4
953.0 ± 2.0						WGN= 10 ± 1	71TELLIER
1168.0	0	0.5	12000.0	51.0		GT = 12051.0	JENDL-2
1168.0	0	0.5	12750.0	55.0		GT = 12905.0	JENDL-1.5
1168.0	0	0.5	12750.0	55.0		GT = 12905.0	ENDF-B-4
1175 ± 4			13500 ± 1000			GNO= 394 ± 29	68KARZHAVINA+
1168.0 ± 2.0						WGN= 24000 ± 2000	71TELLIER
1504.4	0	0.5	3000.0	51.0		GT = 3051.0	JENDL-2
1504.4	0	0.5	3000.0	55.0		GT = 3055.0	JENDL-1.5
1504.4	0	0.5	3000.0	55.0		GT = 3055.0	ENDF-B-4
1511 ± 7			3400 ± 300			GNO= 87.5 ± 7.7	68KARZHAVINA+
1504.4 ± 3.0						WGN= 6000 ± 100	71TELLIER
1819.0	0	0.5	1560.0	51.0		GT = 1811.0	JENDL-2
1819.0	0	0.5	1560.0	55.0		GT = 1815.0	JENDL-1.5
1819.0	0	0.5	1560.0	55.0		GT = 1815.0	ENDF-B-4
1831 ± 9			1640 ± 60			GNO= 36 ± 3.6	68KARZHAVINA+
1819 ± 4						WGN= 3120 ± 100	71TELLIER
2032.0	0	0.5	3715.0	51.0		GT = 3756.0	JENDL-2
2032.0	0	0.5	3880.0	55.0		GT = 3935.0	JENDL-1.5
2032.0	0	0.5	3880.0	55.0		GT = 3935.0	ENDF-B-4
2049 ± 11			4200 ± 400			GNO= 93 ± 9	68KARZHAVINA+
2032 ± 3						WGN= 7430 ± 400	71TELLIER
2599.0	0	0.5	32600.0	85.0		GT = 32685.0	JENDL-2
2599.0	0	0.5	32600.0	55.0		GT = 32655.0	JENDL-1.5
2599.0	0	0.5	32600.0	55.0		GT = 32655.0	ENDF-B-4
2615 ± 20			25000 ± 2000			GNO= 490 ± 39	68KARZHAVINA+
2599 ± 3						WGN= 65200 ± 1000	71TELLIER
2585 ± 20					85 ± 15		77MUSGROVE+
2792.0	1	0.5	10.0	40.0		GT = 50.0	JENDL-2
2770.0	0	0.5	65.0	55.0		GT = 120.0	JENDL-1.5
2770.0	0	0.5	65.0	55.0		GT = 120.0	ENDF-B-4
2770 ± 3						WGN= 65 ± 20	71TELLIER
2788 ± 3	1		R 10 ± 1		8 ± 1		77MUSGROVE+
2939.0	1	0.5	13.3	40.0		GT = 53.3	JENDL-2
2880 ± 20						GNO=< 10	68KARZHAVINA+
2934 ± 3	1		R 12 ± 2		10 ± 1		77MUSGROVE+
2982.0	0	0.5	3530.0	46.0		GT = 3576.0	JENDL-2
2982.0	0	0.5	3580.0	55.0		GT = 3635.0	JENDL-1.5
2982.0	0	0.5	3580.0	55.0		GT = 3635.0	ENDF-B-4
2998 ± 25			3680 ± 350			GNO= 67 ± 6.7	68KARZHAVINA+
2982 ± 6						WGN= 7050 ± 400	71TELLIER
2976 ± 5	0		R 5000 ± 1500	45 ± 5	45 ± 4		77MUSGROVE+
3161.0	1	0.5	R 4.4	40.0		GT = 44.4	JENDL-2
3153 ± 3	1		R 5 ± 1		4 ± 1		77MUSGROVE+
3250.0	0	0.5	2190.0	39.0		GT = 2229.0	JENDL-2
3250.0	0	0.5	2190.0	66.0		GT = 2245.0	JENDL-1.5
3250.0	0	0.5	2190.0	55.0		GT = 2245.0	ENDF-B-4
3255 ± 25			2000 ± 400			GNO= 35 ± 7	68KARZHAVINA+
3250 ± 5				210 ± 282.84		WGN= 4380 ± 400	71TELLIER
3242 ± 3	0		R 2190	39 ± 5	38 ± 4	GT = 2400 ± 200	77MUSGROVE+
3515.0	1	1.5	R 12.5	40.0		GT = 52.5	JENDL-2
3503 ± 3	1		R 24 ± 4		19 ± 2		77MUSGROVE+
3556.0	1	0.5	R 8.5	40.0		GT = 48.5	JENDL-2
3543 ± 3	1		R 8 ± 1		7 ± 1		77MUSGROVE+
3611.0	1	0.5	R 4.4	40.0		GT = 44.4	JENDL-2
3598 ± 3	1		R 5 ± 1		4 ± 1		77MUSGROVE+
3656.0	0	0.5	25675.0	50.0		GT = 25725.0	JENDL-2
3656.0	0	0.5	25675.0	55.0		GT = 25730.0	JENDL-1.5
3656.0	0	0.5	25675.0	55.0		GT = 25730.0	ENDF-B-4
3677 ± 25			21000 ± 2000			GNO= 345 ± 34	68KARZHAVINA+
3656 ± 8						WGN= 51350 ± 1500	71TELLIER

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
3642 ± 3	0		26676)	50 ± 8	50 ± 8		77MUSGROVE+
3848.0 3833 ± 3	1 1	0.5	15.2 15 ± 3	40.0	11 ± 1	GT = 55.2	JENDL-2 77MUSGROVE+
3969.0 3969.0 3969.0 3969 ± 4 3952 ± 5	0 0 0 0	0.5 0.5 0.5	4910.0 4910.0 4910.0 4910)	11.0 55.0 55.0	11 ± 2	GT = 4921.0 GT = 4965.0 GT = 4965.0 WGN= 9820 ±400	JENDL-2 JENDL-1.5 ENDF-B-4 71TELLIER 77MUSGROVE+
4000.0 4000.0 4000.0 4026 ±30 4000 ± 4 3973 ±10	0 0 0 0	0.5 0.5 0.5	12300.0 12300.0 12300.0 14000 ±1500 12300)	83.5 55.0 55.0	83 ±10	GT = 12383.6 GT = 12355.0 GT = 12355.0 GNO= 220 ±24 WGN= 24600 ±800	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAYINA+ 71TELLIER 77MUSGROVE+
4033.0 4033.0 4033.0 4033 ± 4	0 0 0	0.5 0.5 0.5	210.0 420.0 420.0	51.0 55.0 55.0		GT = 261.0 GT = 475.0 GT = 475.0 WGN= 420 ±50	JENDL-2 JENDL-1.5 ENDF-B-4 71TELLIER
4047.0 4047.0 4047.0 4047 ± 4 4069 ± 3	0 0 0 0	0.5 0.5 0.5	14.0 320.0 320.0 15 ± 3	51.0 55.0 55.0	11 ± 1	GT = 65.0 GT = 375.0 GT = 375.0 WGN= 320 ±60	JENDL-2 JENDL-1.5 ENDF-B-4 71TELLIER 77MUSGROVE+
4216.0 4198 ± 3	1 1	0.5	32.7 30 ±10	40.0	18 ± 2	GT = 72.7	JENDL-2 77MUSGROVE+
4399.0 4371 ± 3	1 1	0.5	21.5 21 ± 3	40.0	14 ± 1	GT = 61.5	JENDL-2 77MUSGROVE+
4525.0 4507 ± 3	1 1	0.5	32.7	40.0	18 ± 2	GT = 72.7	JENDL-2 77MUSGROVE+
4575.0 4557 ± 3	1 1	0.5	7.1 7 ± 2	40.0	6 ± 1	GT = 47.1	JENDL-2 77MUSGROVE+
4736.0 4717 ± 3	1 1	0.5	19.3 19 ± 3	40.0	13 ± 1	GT = 59.3	JENDL-2 77MUSGROVE+
5035.0 5015 ± 3	1 1	0.5	10.0 10 ± 2	40.0	8 ± 1	GT = 50.0	JENDL-2 77MUSGROVE+
5075.0 5075.0 5104 ±40 5075 ±10 5064 ± 3	0 0 0 0	0.5 0.5	3490.0 3490.0 3490)	71.0 55.0 71 ± 7	70 ± 7	GT = 3561.0 GT = 3545.0 GNO=< 30 WGN= 6980 ±300	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER 77MUSGROVE+
5191.0 5191.0 5191 ±10 5164 ± 3	0 0 0	0.5 0.5	2640.0 2640.0 2640)	59.0 55.0 59 ± 7	58 ± 6	GT = 2699.0 GT = 2695.0 WGN= 5280 ±300	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
5196.0 5176 ± 3	1 1	0.5	19.3	40.0	13 ± 1	GT = 59.3	JENDL-2 77MUSGROVE+
5248.0 5227 ±45 5226 ± 3	1 1	0.5	1000.0 1000 ±500	23.0 23 ±10	23 ± 3	GT = 1023.0 GNO=< 30	JENDL-2 68KARZHAYINA+ 77MUSGROVE+
5383.0 5362 ± 3	1 1	0.5	32.7	40.0	18 ± 2	GT = 72.7	JENDL-2 77MUSGROVE+
5410.0 5389 ± 3	1 1	0.5	17.1	40.0	12 ± 1	GT = 57.1	JENDL-2 77MUSGROVE+
5467.0 5467.0 5465 ±50 5407 ±10 5437 ± 3	0 0 0 0	0.5 0.5	6370.0 6370.0 4900 ±1100 6370)	87.0 55.0 87 ±10	86 ± 9	GT = 6457.0 GT = 6425.0 GNO= 66 ±15 WGN= 12740 ±500	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER 77MUSGROVE+
5508.0 5486 ± 3	1 1	0.5	60.0	40.0	24 ± 3	GT = 100.0	JENDL-2 77MUSGROVE+
5668.0 5645 ± 3	1 1	0.5	19.3	40.0	13 ± 2	GT = 59.3	JENDL-2 77MUSGROVE+
5894.0 5870 ± 3	1 1	0.5	8.5	40.0	7 ± 1	GT = 48.5	JENDL-2 77MUSGROVE+
5975.0 5951 ± 3	1 1	3.5	83.0	40.0	27 ± 3	GT = 123.0	JENDL-2 77MUSGROVE+
6075.0 6049 ± 5	1 1	0.5	32.7	40.0	18 ± 3	GT = 72.7	JENDL-2 77MUSGROVE+
6202.0 6177 ± 5	1 1	0.5	60.0	40.0	24 ± 3	GT = 100	JENDL-2 77MUSGROVE+
6294.0 6268 ± 5	1 1	0.5	93.0	40.0	28 ± 4	GT = 133	JENDL-2 77MUSGROVE+
6382.0 6382.0 6456 ±60 6382 ± 7 6357 ±10	0 0 0 0	0.5 0.5	10385.0 10400.0 (7500) 10400)	65.0 55.0 65 ± 8	65 ± 8	GT = 10450.0 GT = 10455.0 GNO=(93) WGN= 20770 ±1000	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER 77MUSGROVE+
6631.0 6631.0	0 0	0.5 0.5	14485.0 14500.0	43.0 55.0		GT = 14528.0 GT = 14555.0	JENDL-2 JENDL-1.5

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	AWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
6729 ±65 6631 ± 7 6598 ±10	0		(8000) (14500)	43 ± 6	43 ± 6	GND=(97) WGN= 28970 ±1500	68KARZHAVINA+ 71TELLIER 77MUSGROVE+
6650.0 6623 ± 5	1	0.5	54.0	40.0	23 ± 3	GT = 84.0	JENDL-2 77MUSGROVE+
6766.0 6739 ± 5	1	0.5	67.0	40.0	25 ± 4	GT = 107	JENDL-2 77MUSGROVE+
6911.0 6884 ± 5	1 1	0.5	13.3	40.0	10 ± 2	GT = 59.3	JENDL-2 77MUSGROVE+
7037.0 7037.0 7037 ± 7 7010 ± 5	0 0 0	0.5 0.5	2860.0 2860.0	40.0 55.0		GT = 2860.0 GT = 2815.0 WGN= 5720 ±300	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
7233.0 7205 ± 5	1 1	0.5	19.3	40.0	13 ± 2	GT = 59.3	JENDL-2 77MUSGROVE+
7279.0 7251 ± 5	1	0.5	120	40.0	30 ± 4	GT = 160	JENDL-2 77MUSGROVE+
7318.0 7290 ± 5	1 1	0.5	27.0	40.0	16 ± 2	GT = 67.0	JENDL-2 77MUSGROVE+
7375.0 7347 ± 5	1 1	0.5	27.0	40.0	16 ± 3	GT = 67.0	JENDL-2 77MUSGROVE+
7400.0 7372 ± 5	1	0.5	105	40.0	29 ± 4	GT = 145	JENDL-2 77MUSGROVE+
7491.0 7463 ± 5	1 1	0.5	27.0	40.0	16 ± 3	GT = 67.0	JENDL-2 77MUSGROVE+
7625.0 7596 ± 5	1	0.5	44.0	40.0	21 ± 4	GT = 84.0	JENDL-2 77MUSGROVE+
7746.0 7717 ± 5	1	0.5	138	40.0	31 ± 4	GT = 178	JENDL-2 77MUSGROVE+
7893.0 7863 ± 5	1	1.5	42.1	40.0	41 ± 5	GT = 82.1	JENDL-2 77MUSGROVE+
7914.0 7914.0 7914 ± 8 7886 ± 5	0 0 0	0.5 0.5	3613.0 3610.0	39.0 55.0		GT = 3652.0 GT = 3665.0 WGN= 7225 ±400	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
7961.0 7931 ± 5	1	0.5	138	40.0	31 ± 4	GT = 178	JENDL-2 77MUSGROVE+
8022.0 7991 ± 5	1 1	0.5	17.1	40.0	12 ± 3	GT = 57.1	JENDL-2 77MUSGROVE+
8076.0 8046 ± 5	1 1	0.5	19.3	40.0	13 ± 3	GT = 59.3	JENDL-2 77MUSGROVE+
8121.0 8080 ± 5	1 1	0.5	4.4	40.0	4 ± 2	GT = 44.4	JENDL-2 77MUSGROVE+
8228.0 8186 ± 5	1	0.5	19.3	40.0	13 ± 3	GT = 59.3	JENDL-2 77MUSGROVE+
8501.0 8501.0 8501 ±10 8466 ± 5	0 0 0	0.5 0.5	2315.0 2315.0	27.0 55.0	27 ± 5	GT = 2342.0 GT = 2370.0 WGN= 4630 ±450	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
8534.0 8500 ± 5	1	0.5	160	40.0	32 ± 4	GT = 200	JENDL-2 77MUSGROVE+
8567.0 8533 ± 5	1	0.5	105	40.0	29 ± 4	GT = 145	JENDL-2 77MUSGROVE+
8658.0 8623 ± 5	1	1.5	137.8	40.0	62 ± 7	GT = 177.8	JENDL-2 77MUSGROVE+
8688.0 8653 ± 5	1	1.5	36.0	40.0	38 ± 5	GT = 76.0	JENDL-2 77MUSGROVE+
9123.0 9085 ± 6	1	0.5	54.0	40.0	23 ± 3	GT = 94.0	JENDL-2 77MUSGROVE+
9182.0 9143 ± 6	1	0.5	105	40.0	29 ± 4	GT = 145	JENDL-2 77MUSGROVE+
9313.0 9313.0 9313 ±10 9270 ±10	0 0 0	0.5 0.5	5135.0 5135.0	58.0 55.0	58 ± 8	GT = 5193.0 GT = 5190.0 WGN= 10270 ±1200	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
9474.0 9433 ± 6	1	0.5	93.0	40.0	28 ± 4	GT = 133	JENDL-2 77MUSGROVE+
9584.0 9543 ± 6	1	0.5	189	40.0	33 ± 4	GT = 229	JENDL-2 77MUSGROVE+
9724.0 9724.0 9724 ±10 9685 ± 5	0 0 0	0.5 0.5	2100.0 2100.0	40.0 55.0	40 ± 6	GT = 2140.0 GT = 2165.0 WGN= 4200 ±500	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
9841.0 9800 ± 6	1 1	0.5	29.6	40.0	17 ± 3	GT = 69.6	JENDL-2 77MUSGROVE+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
9869.0 9869.0 9869 ±10 9813 ±6	0 0 0	0.5 0.5	19480.0 19480.0 (19480)	47.0 55.0		GT = 19527.0 GT = 19535.0 WGN= 38960 ±2000	JENDL-2 JENDL-1.5 7ITELLIER 77MUSGROVE+
10757.0 10757.0 10757 ±15	0 0	0.5 0.5	27925.0 27925.0	51.0 55.0		GT = 27376.0 GT = 27380.0 WGN= 54650 ±3000	JENDL-2 JENDL-1.5 7ITELLIER
10857.0 10857.0 10857 ±15	0 0	0.5 0.5	5730.0 5730.0	51.0 55.0		GT = 5781.0 GT = 5785.0 WGN= 11460 ±1000	JENDL-2 JENDL-1.5 7ITELLIER
11526.0 11526.0 11526 ±15	0 0	0.5 0.5	2330.0 2330.0	51.0 55.0		GT = 2381.0 GT = 2385.0 WGN= 4660 ±600	JENDL-2 JENDL-1.5 7ITELLIER
12548.0 12548.0 12548 ±15	0 0	0.5 0.5	1700.0 1700.0	51.0 55.0		GT = 1751.0 GT = 1755.0 WGN= 3400 ±600	JENDL-2 JENDL-1.5 7ITELLIER
12657.0 12657.0 12657 ±15	0 0	0.5 0.5	2680.0 2680.0	51.0 55.0		GT = 2731.0 GT = 2735.0 WGN= 5360 ±700	JENDL-2 JENDL-1.5 7ITELLIER
13203.0 13203.0 13203 ±15	0 0	0.5 0.5	2050.0 2050.0	51.0 55.0		GT = 2101.0 GT = 2105.0 WGN= 4100 ±600	JENDL-2 JENDL-1.5 7ITELLIER
13434.0 13434.0 13434 ±15	0 0	0.5 0.5	3120.0 3120.0	51.0 55.0		GT = 3171.0 GT = 3175.0 WGN= 6240 ±700	JENDL-2 JENDL-1.5 7ITELLIER
13567.0 13567.0 13567 ±15	0 0	0.5 0.5	44650.0 44650.0	51.0 55.0		GT = 44701.0 GT = 44705.0 WGN= 89300 ±3000	JENDL-2 JENDL-1.5 7ITELLIER
14227.0 14227.0 14227 ±15	0 0	0.5 0.5	4300.0 4300.0	51.0 55.0		GT = 4351.0 GT = 4355.0 WGN= 8600 ±1000	JENDL-2 JENDL-1.5 7ITELLIER
14495.0 14495.0 14495 ±15	0 0	0.5 0.5	8250.0 8250.0	51.0 55.0		GT = 8301.0 GT = 8305.0 WGN= 16500 ±1500	JENDL-2 JENDL-1.5 7ITELLIER
15362.0 15362.0 15362 ±20	0 0	0.5 0.5	1800.0 1800.0	51.0 55.0		GT = 1851.0 GT = 1855.0 WGN= 3600 ±800	JENDL-2 JENDL-1.5 7ITELLIER
16267.0 16267.0 16267 ±20	0 0	0.5 0.5	10880.0 10880.0	51.0 55.0		GT = 10931.0 GT = 10935.0 WGN= 21760 ±2000	JENDL-2 JENDL-1.5 7ITELLIER
16375.0 16375.0 16375 ±20	0 0	0.5 0.5	1930.0 1930.0	51.0 55.0		GT = 1961.0 GT = 1965.0 WGN= 3860 ±600	JENDL-2 JENDL-1.5 7ITELLIER
17050.0 17050.0 17050 ±20	0 0	0.5 0.5	13900.0 13900.0	51.0 55.0		GT = 13951.0 GT = 13955.0 WGN= 27800 ±2500	JENDL-2 JENDL-1.5 7ITELLIER
17323.0 17323.0 17323 ±20	0 0	0.5 0.5	13955.0 13955.0	51.0 55.0		GT = 14006.0 GT = 14010.0 WGN= 27910 ±2500	JENDL-2 JENDL-1.5 7ITELLIER
18618 ±20							7ITELLIER
18803 ±20							7ITELLIER
19238 ±20							7ITELLIER
19462 ±20							7ITELLIER
19717 ±20							7ITELLIER
19978 ±20							7ITELLIER
20607 ±20							7ITELLIER
20823 ±20							7ITELLIER
21234 ±20							7ITELLIER
21656 ±20							7ITELLIER
21923 ±20							7ITELLIER
22402 ±20							7ITELLIER
22680 ±20							7ITELLIER
23370 ±25							7ITELLIER
24051 ±25							7ITELLIER
24402 ±25							7ITELLIER
25089 ±30							7ITELLIER
26911 ±30							7ITELLIER
27374 ±30							7ITELLIER
27649 ±30							7ITELLIER
28889 ±35							7ITELLIER

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WNS (MILLI-EV)	MISCELLANEOUS	REFERENCE
29614 ±35							71TELLIER
30422 ±35							71TELLIER
30755 ±35							71TELLIER
31036 ±35							71TELLIER

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
-400	0	0.5	12080	49		GT = 12129 COM= M-L-B-W	JENDL-2
94.8	0	0.5	0.265	46.0		GT = 46.265	JENDL-2
94.9	0	0.5	0.53	64.0		GT = 64.53	JENDL-1.5
94.9	0	0.5	0.53	67.0		GT = 67.53	ENDF-B-4
94.9 ± 0.1						WGN= 0.53 ± 0.05	7ITELLIER
155.4	0	0.5	1850.0	46.0		GT = 1896.0	JENDL-2
155.4	0	0.5	1650.0	70.0		GT = 1720.0	JENDL-1.5
155.4	0	0.5	1850.0	70.0		GT = 1720.0	ENDF-B-4
155 ± 0.5			1610 ±240	100 ±15		GNO= 129 ±19	68KARZHAVINA+
155.1	0.5		[#] 2460 ±200	70 ± 8		GT = 2500 ±200	69ALVES+
154.4			(2000)	250 ±282.64		WGN= 3700 ±400	69MIGNECO+
155.4 ± 0.1						GT = 2100 ±200	7ITELLIER
172.4	0	0.5	0.41	46.0		GT = 46.41	JENDL-2
172.4	0	0.5	0.41	64.0		GT = 64.41	JENDL-1.5
172.4	0	0.5	0.41	67.0		GT = 67.41	ENDF-B-4
172.4 ± 0.2						WGN= 0.82 ± 0.05	7ITELLIER
184.5	0	0.5	0.665	46.0		GT = 46.665	JENDL-2
184.5	0	0.5	0.065	64.0		GT = 64.07	JENDL-1.5
184.5	1	1.0	4.333-2	67.0		GT = 67.043	ENDF-B-4
184.5 ± 0.2						WGN= 1.33 ± 0.05	7ITELLIER
252.9	0	0.5	0.4	46.0		GT = 46.4	JENDL-2
252.9	0	0.5	0.4	64.0		GT = 64.4	JENDL-1.5
252.9	0	0.5	0.4	67.0		GT = 67.4	ENDF-B-4
252.9 ± 0.2						WGN= 0.80 ± 0.15	7ITELLIER
287.5	0	0.5	3130.0	46.0		GT = 3176.0	JENDL-2
287.5	0	0.5	3160.0	58.0		GT = 3218.0	JENDL-1.5
287.5	0	0.5	3160.0	58.0		GT = 3218.0	ENDF-B-4
288 ± 1			2600 ±200	96 ±14		GNO= 153 ±12	68KARZHAVINA+
286.2	0.5		[#] 3700 ±370	50 ±223.61		WGN= 6260 ±200	69ALVES+
287.5 ± 0.3						GT = 3180 ±200	7ITELLIER
398.3	0	0.5	350.0	46.0		GT = 398.0	JENDL-2
398.3	0	0.5	380.0	65.0		GT = 445.0	JENDL-1.5
398.3	0	0.5	380.0	65.0		GT = 445.0	ENDF-B-4
399 ± 1.5			410 ±30	65 ±10		GNO= 20.5 ± 1.5	68KARZHAVINA+
398.3 ± 0.4						WGN= 700 ±60	7ITELLIER
513.95	0	0.5	1.9	46.0		GT = 47.9	JENDL-2
514.0	0	0.5	1.9	64.0		GT = 65.9	JENDL-1.5
514.0	0	0.5	1.9	67.0		GT = 68.9	ENDF-B-4
513.95 ± 0.5						WGN= 3.8 ± 0.5	7ITELLIER
628.5	0	0.5	0.85	46.0		GT = 46.85	JENDL-2
628.5	0	0.5	0.85	64.0		GT = 64.85	JENDL-1.5
628.5	0	0.5	0.85	67.0		GT = 67.85	ENDF-B-4
628.5 ± 0.6						WGN= 1.7 ± 0.5	7ITELLIER
714.9	0	0.5	2350.0	46.0		GT = 2386.0	JENDL-2
714.9	0	0.5	2350.0	74.0		GT = 2424.0	JENDL-1.5
714.9	0	0.5	2350.0	74.0		GT = 2424.0	ENDF-B-4
717 ± 2			2000 ±100	74 ±11		GNO= 75 ± 4	68KARZHAVINA+
714.9	0.5		[#] 2410 ±200	115 ±111.80		GT = 2600 ±250	69ALVES+
714.9 ± 0.8						WGN= 4700 ±100	7ITELLIER
714.9						GT = 2485 ±100	
779.3	0	0.5	7.5	46.0		GT = 53.5	JENDL-2
779.3	0	0.5	7.5	64.0		GT = 71.5	JENDL-1.5
779.3	0	0.5	7.5	67.0		GT = 74.5	ENDF-B-4
779.3 ± 0.8						WGN= 15 ± 3	7ITELLIER
836.3	0	0.5	4.5	46.0		GT = 50.5	JENDL-2
836.3 ± 0.8						WGN= 9 ± 1	7ITELLIER
871.9	0	0.5	315.0	46.0		GT = 361.0	JENDL-2
871.9	0	0.5	260.0	64.0		GT = 324.0	JENDL-1.5
871.9	0	0.5	260.0	67.0		GT = 327.0	ENDF-B-4
876 ± 3			193 ±36	30 ±31.623		GNO= 6.7 ± 1.2	68KARZHAVINA+
871.9 ± 0.9						WGN= 630 ±20	7ITELLIER
871.9						GT = 345 ±30	
905.0	0	0.5	6.9	46.0		GT = 52.9	JENDL-2
905.0	0	0.5	6.9	64.0		GT = 70.9	JENDL-1.5
905.0 ± 0.9						WGN= 13.7 ± 1.0	7ITELLIER
1054.1	0	0.5	2708.0	46.0		GT = 2754.0	JENDL-2
1054.1	0	0.5	2530.0	64.0		GT = 2594.0	JENDL-1.5
1060 ± 5			2350 ±150	42.5 ±180.28		GNO= 72 ± 5	68KARZHAVINA+
1054.1 ± 1.0						WGN= 5415 ±300	7ITELLIER
1054.1						GT = 2750 ±100	
1176.2	0	0.5	2530.0	46.0		GT = 2576.0	JENDL-2
1176.2	0	0.5	2650.0	64.0		GT = 2714.0	JENDL-1.5
1183 ± 6			2700 ±200	148 ±24		GNO= 79 ± 6	68KARZHAVINA+
1176.2 ± 1.2				90 ±250		WGN= 5060 ±300	7ITELLIER
1176.2						GT = 2620 ±200	
1208.8	0	0.5	36.4	46.0		GT = 82.4	JENDL-2
1208.8	0	0.5	36.4	64.0		GT = 100.4	JENDL-1.5
1208.8 ± 2.0						WGN= 72.8 ± 5.0	7ITELLIER
1244.0	0	0.5	8.0	46.0		GT = 54.0	JENDL-2
1244.0	0	0.5	8.0	64.0		GT = 72.0	JENDL-1.5
1244.0 ± 2.0						WGN= 15.9 ± 1.0	7ITELLIER
1299.0	0	0.5	3.3	46.0		GT = 49.3	JENDL-2
1299.0	0	0.5	3.3	64.0		GT = 67.3	JENDL-1.5
1299.0 ± 2.0						WGN= 6.5 ± 2.0	7ITELLIER

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
1344.3 1344.3 1355 ± 6 1344.3 ± 1.5	0 0	0.5 0.5	1950.0 1815.0 1680 ±110	46.0 64.0		GT = 1996.0 GT = 1879.0 GND= 46 ± 3 WGN= 3900 ±400	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER
1388.0 1388.0 1388.0 ± 2.0	0 0	0.5 0.5	8.9 8.9	46.0 64.0		GT = 54.9 GT = 72.9 WGN= 17.8 ± 3.0	JENDL-2 JENDL-1.5 71TELLIER
1533.5 1533.5 1544 ± 7 1533.5 ± 1.5	0 0	0.5 0.5	3785.0 3690.0 3590 ±150	46.0 64.0		GT = 3831.0 GT = 3754.0 GND= 91 ± 4 WGN= 7570 ±400	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER
1793.7 1793.7 1818 ± 7 1793.7 ± 2.0	0 0	0.5 0.5	112.5 112.5	46.0 64.0		GT = 158.5 GT = 176.5 GND=< 10 WGN= 225 ±15	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER
2028.3 2028.3 2028.3 ± 2.0	0 0	0.5 0.5	505.0 505.0	46.0 64.0		GT = 551.0 GT = 569.0 WGN= 1010 ±50	JENDL-2 JENDL-1.5 71TELLIER
2177.7 2177.7 2195 ±12 2177.7 ± 2.0	0 0	0.5 0.5	5975.0 5975.0 8400 ±700	46.0 64.0		GT = 5921.0 GT = 5939.0 GND= 179 ±15 WGN= 11750 ±500	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER
2378.9 2378.9 2403 ±13 2378.9 ± 2.5	0 0	0.5 0.5	3400.0 3400.0 3900 ±300	46.0 64.0		GT = 3446.0 GT = 3464.0 GND= 80 ± 6 WGN= 6800 ±300	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER
2429.5 2429.5 2546 ±14 2429.5 ± 2.5	0 0	0.5 0.5	2050.0 2050.0 2400 ±300	46.0 64.0		GT = 2096.0 GT = 2114.0 GND= 48 ± 6 WGN= 4100 ±300	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER
2562.3 2562.3 2594 ±20 2562.3 ± 2.5	0 0	0.5 0.5	10150 9000.0 7900 ±600	46.0 64.0		GT = 10196 GT = 9064.0 GND= 155 ±16 WGN= 20300 ±2000	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER
2710.8 2710 ± 3	1 1	0.5 1	21.5 22 ± 8	40.0	14 ± 2	GT = 61.5	JENDL-2 77MUSGROVE+
2772.9 2772 ± 3	1 1	0.5 1	15.2 12 ± 3	40.0	11 ± 2	GT = 55.2	JENDL-2 77MUSGROVE+
2784.8 2784.8 2795 ±20 2784.8 ± 3.0 2784 ± 3	0 0 0	0.5 0.5	1210.0 1410.0 1400 ±500 (1410)	37.0 64.0 37 ± 4	36 ± 4	GT = 1247.0 GT = 1474.0 GND= 26 ± 9 WGN= 2420 ±100	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER 77MUSGROVE+
2990.0 2990.0 3010 ±25 2990 ± 3 2989 ± 3	0 0 0	0.5 0.5	2170.0 2170.0 2000 ±500 (2170)	36.0 64.0 36 ± 4	36 ± 4	GT = 2206.0 GT = 2234.0 GND= 36 ± 9 WGN= 4340 ±200	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER 77MUSGROVE+
3046.0 3045 ± 3	1 1	0.5 1	2.1 2 ± 1	40.0	2 ± 1	GT = 42.1	JENDL-2 77MUSGROVE+
3065.0 3065 ± 3	1 1	0.5 1	7.1 7 ± 2	40.0	6 ± 1	GT = 47.1	JENDL-2 77MUSGROVE+
3122.0 3121 ± 3	1	0.5	60.0	40.0	24 ± 3	GT = 100	JENDL-2 77MUSGROVE+
3171.0 3170 ± 3	1	0.5	40.0	40.0	20 ± 2	GT = 80.0	JENDL-2 77MUSGROVE+
3356.0 3355 ± 3	1 1	0.5 1	17.1 17 ± 5	40.0	12 ± 2	GT = 57.1	JENDL-2 77MUSGROVE+
3443.0 3442 ± 3	1 1	0.5 1	8.5 8 ± 1	40.0	7 ± 1	GT = 48.5	JENDL-2 77MUSGROVE+
3485.0 3485.0 3525 ±25 3485 ± 4 3484 ± 3	0 0 0	0.5 0.5	665.0 665.0 (665)	31.0 64.0 31 ± 5	30 ± 3	GT = 696.0 GT = 729.0 GND=< 15 WGN= 1330 ±60	JENDL-2 JENDL-1.5 68KARZHAYINA+ 71TELLIER 77MUSGROVE+
3613.2 3612 ± 3	1 1	0.5 1	7.1 7 ± 1	40.0	6 ± 1	GT = 47.1	JENDL-2 77MUSGROVE+
3645.3 3688 ±25 3645 ± 3	1	0.5	93.0	40.0	28 ± 3	GT = 133 GND=< 10	JENDL-2 68KARZHAYINA+ 77MUSGROVE+
3770.5 3769 ± 3	1 1	0.5 1	4.4 5 ± 1	40.0	4 ± 1	GT = 44.4	JENDL-2 77MUSGROVE+
3814.0 3814.0 3814 ± 4 3812 ± 3	0 0 0	0.5 0.5	430.0 430.0 (430)	31.0 64.0 31 ± 4	29 ± 3	GT = 461.0 GT = 494.0 WGN= 850 ±60	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
3838.7 3837 ± 3	1 1	0.5 1	11.6 12 ± 3	40.0	9 ± 1	GT = 51.6	JENDL-2 77MUSGROVE+
3892.0 3892.0 3950 ±30	0 0	0.5 0.5	19150.0 19150.0	34.0 64.0		GT = 19184.0 GT = 19214.0 GND=< 10	JENDL-2 JENDL-1.5 68KARZHAYINA+

ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEDUS	REFERENCE
3892 ± 4 3891 ± 10	0		2500 ± 500	35 ± 5	34 ± 4	WGN= 38300 ± 1500	71TELLIER 77MUSGROVE+
3950.0 3948 ± 3	1 1	0.5	4.4 4 ± 1	40.0	4 ± 1	GT = 44.4	JENDL-2 77MUSGROVE+
3974.1 3972 ± 3	1 1	0.5	3.2 4 ± 1	40.0	3 ± 1	GT = 43.2	JENDL-2 77MUSGROVE+
4029.2 4027 ± 3	1 1	0.5	11.6 12 ± 1	40.0	9 ± 1	GT = 51.6	JENDL-2 77MUSGROVE+
4077.0 4077.0 4121 ± 30 4077 ± 4 4073 ± 10	0 0 0 0	0.5 0.5	12545.0 17545.0 13000 ± 1000 17545)	67.0 64.0 67 ± 7	66 ± 7	GT = 12612.0 GT = 17609.0 GNO= 203 ± 16 WGN= 25090 ± 800	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
4147.5 4145 ± 3	1 1	0.5	15.2 15 ± 5	40.0	11 ± 1	GT = 55.2	JENDL-2 77MUSGROVE+
4271.0 4271.0 4318 ± 31 4271 ± 5 4267 ± 5	0 0 0 0	0.5 0.5	7800.0 7200.0 6500 ± 650 7200)	46.0 64.0 46 ± 5	46 ± 5	GT = 7846.0 GT = 7264.0 GNO= 99 ± 10 WGN= 15600 ± 800	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
4309.8 4307 ± 3	1 1	0.5	15.2 16 ± 5	40.0	11 ± 2	GT = 55.2	JENDL-2 77MUSGROVE+
4406.0 4403 ± 3	1 1	0.5	8.5 8 ± 1	40.0	7 ± 1	GT = 48.5	JENDL-2 77MUSGROVE+
4423.0 4423.0 4463 ± 33 4423 ± 5 4420 ± 5	0 0 0 0	0.5 0.5	1490.0 1490.0 2400 ± 600 2500 ± 500	49.0 64.0 47 ± 5	47 ± 5	GT = 15390 GT = 1554.0 GNO= 36 ± 9 WGN= 2960 ± 150	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
4445.0 4442 ± 3	1 1	0.5	8.5 8 ± 1	40.0	7 ± 1	GT = 48.5	JENDL-2 77MUSGROVE+
4525.1 4522 ± 3	1 1	0.5	3.2 4 ± 1	40.0	3 ± 1	GT = 43.2	JENDL-2 77MUSGROVE+
4588.2 4585 ± 3	1 1	0.5	2.1 2 ± 1	40.0	2 ± 1	GT = 42.1	JENDL-2 77MUSGROVE+
4622.2 4619 ± 3	1 1	0.5	15.2 15 ± 1	40.0	11 ± 2	GT = 55.2	JENDL-2 77MUSGROVE+
4655.0 4655.0 4704 ± 36 4655 ± 5 4653 ± 6	0 0 0 0	0.5 0.5	4865.0 4865.0 6700 ± 1000 4865)	38.0 64.0 38 ± 4	38 ± 4	GT = 4903.0 GT = 4929.0 GNO= 98 ± 15 WGN= 9730 ± 500	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
4694.0 4694.0 4694 ± 5 4691 ± 3	0 0 0	0.5 0.5	900.0 900.0 900)	37.0 64.0 37 ± 5	35 ± 4	GT = 937.0 GT = 964.0 WGN= 1800 ± 100	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
4810.4 4807 ± 3	1 1	0.5	3.2	40.0	3 ± 1	GT = 43.2	JENDL-2 77MUSGROVE+
4840.0 4840.0 4840 ± 5 4838 ± 3	0 0 0	0.5 0.5	45.0 45.0 45)	46.0 64.0 (46)	23 ± 2	GT = 91.0 GT = 109.0 WGN= 90 ± 15	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
5044.8 5041 ± 3	1	0.5	36.0	40.0	19 ± 2	GT = 76.0	JENDL-2 77MUSGROVE+
5179.0 5179.0 5179 ± 5 5068 ± 3	0 0	0.5 0.5	45.0 45.0	43.0 64.0	22 ± 3	GT = 68.0 GT = 109.0 WGN= 90 ± 15	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
5225.8 5222 ± 3	1 1	0.5	17.1 18 ± 7	40.0	12 ± 2	GT = 57.1	JENDL-2 77MUSGROVE+
5293.0 5293.0 5377 ± 44 5293 ± 6 5292 ± 3	0 0 0	0.5 0.5	3775.0 3775.0 (4400) 3775)	41.0 64.0 41 ± 4	41 ± 4	GT = 3816.0 GT = 3839.0 GNO=(60) WGN= 7550 ± 300	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
5305.9 5302 ± 3	1	0.5	27.0	40.0	16 ± 2	GT = 67.0	JENDL-2 77MUSGROVE+
5405.0 5401 ± 3	1	0.5	54.0	40.0	23 ± 3	GT = 94.0	JENDL-2 77MUSGROVE+
5464.0 5464.0 5464 ± 6 5460 ± 3	0 0 0	0.5 0.5	1590.0 1590.0 1590)	32.0 64.0 32 ± 4	32 ± 4	GT = 1622.0 GT = 1654.0 WGN= 3180 ± 150	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
5636.0 5632 ± 3	1 1	0.5	5.7 6 ± 1	40.0	5 ± 1	GT = 45.7	JENDL-2 77MUSGROVE+
5676.0 5676.0 5676 ± 6 5669 ± 3	0 0 0	0.5 0.5	1030.0 1030.0 4000 ± 1000	88.0 64.0 83 ± 8	81 ± 8	GT = 1118.0 GT = 1084.0 WGN= 2060 ± 150	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
5792.0	0	0.5	255.0	34.0		GT = 289.0	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
5792.0 5792 ± 6 5788 ± 3	0	0.5	255.0	64.0		GT = 319.0 WGN = 510 ±180	JENDL-1.5 71TELLIER 77MUSGROVE+
5937.0 5933 ± 3	1	0.5	54.0	40.0	23 ± 3	GT = 94.0	JENDL-2 77MUSGROVE+
5988.0 5964 ± 3	1	0.5	24.0	40.0	15 ± 2	GT = 64.0	JENDL-2 77MUSGROVE+
6072.0 6068 ± 5	1	0.5	7.1 8 ± 3	40.0	6 ± 2	GT = 47.1	JENDL-2 77MUSGROVE+
6098.0 6098.0 6098 ± 6 6093 ± 8	0	0.5	5355.0	46.0		GT = 5401.0 GT = 5419.0 WGN = 10710 ±500	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
6137.0 6133 ± 5	1	0.5	5.7 6 ± 2	40.0	5 ± 2	GT = 45.7	JENDL-2 77MUSGROVE+
6189.0 6165 ± 5	1	0.5	4.4 4 ± 2	40.0	4 ± 2	GT = 44.4	JENDL-2 77MUSGROVE+
6217.0 6213 ± 5	1	0.5	3.2 4 ± 1	40.0	3 ± 1	GT = 43.2	JENDL-2 77MUSGROVE+
6317.0 6342 ±56 6313 ± 5	1	0.5	13.3 14 ± 4	40.0	10 ± 2	GT = 53.3 GNO < 30	JENDL-2 68KARZHAVINA+ 77MUSGROVE+
6347.0 6343 ± 5	1	0.5	54.0	40.0	23 ± 3	GT = 94.0	JENDL-2 77MUSGROVE+
6419.0 6415 ± 5	1	0.5	11.6 12 ± 3	40.0	9 ± 2	GT = 51.6	JENDL-2 77MUSGROVE+
6464.0 6460 ± 5	1	0.5	5.7 6 ± 2	40.0	5 ± 2	GT = 45.7	JENDL-2 77MUSGROVE+
6491.0 6491.0 6491 ± 6 6490 ± 5	0	0.5	495.0	40.0		GT = 535.0 GT = 559.0 WGN = 990 ±200	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
6549.0 6545 ± 5	1	0.5	2.1 2 ± 2	40.0	2 ± 2	GT = 42.1	JENDL-2 77MUSGROVE+
6624.0 6620 ± 5	1	0.5	17.1 18 ± 5	40.0	12 ± 2	GT = 57.1	JENDL-2 77MUSGROVE+
6644.0 6644.0 6644 ± 6 6640 ± 5	0	0.5	3670.0	39.0		GT = 3709.0 GT = 3734.0 WGN = 7340 ±300	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
6767.0 6763 ± 5	1	0.5	60.0	40.0	24 ± 3	GT = 100	JENDL-2 77MUSGROVE+
6787.0 6783 ± 5	1	0.5	36.2	40.0	19 ± 3	GT = 76.2	JENDL-2 77MUSGROVE+
6864.0 6860 ± 5	1	0.5	17.1 17 ± 4	40.0	12 ± 2	GT = 57.1	JENDL-2 77MUSGROVE+
6929.0 6925 ± 5	1	0.5	3.2 3 ± 2	40.0	3 ± 2	GT = 43.2	JENDL-2 77MUSGROVE+
6972.0 6968 ± 5	1	0.5	7.1 8 ± 3	40.0	6 ± 2	GT = 47.1	JENDL-2 77MUSGROVE+
7062.0 7062.0 7172 ±70 7062 ± 7 7058 ±10	0	0.5	14090.0	50.0		GT = 14140.0 GT = 14154.0 GNO = 153 ±24 WGN = 28180 ±1000	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
7103.9 7100 ± 5	1	0.5	44.2	40.0	21 ± 3	GT = 88.2	JENDL-2 77MUSGROVE+
7136.8 7133 ± 5	1	0.5	19.3 20 ± 6	40.0	13 ± 2	GT = 59.3	JENDL-2 77MUSGROVE+
7198.8 7195 ± 5	1	0.5	74.3	40.0	26 ± 3	GT = 114.7	JENDL-2 77MUSGROVE+
7243.8 7240 ± 5	1	0.5	15.2 16 ± 5	40.0	11 ± 3	GT = 55.2	JENDL-2 77MUSGROVE+
7302.0 7302.0 7302 ± 7 7303 ± 8	0	0.5	3998.0	82.0		GT = 4080.0 GT = 4054.0 WGN = 7995 ±400	JENDL-2 JENDL-1.5 71TELLIER 77MUSGROVE+
7378.0 7378.0 7485 ±75 7378 ± 7 7370 ± 5	0	0.5	2805.0	48.0		GT = 2853.0 GT = 2859.0 GNO = (85) WGN = 5610 ±400	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
7508.6 7505 ± 5	1	0.5	49.0	40.0	22 ± 3	GT = 89.0	JENDL-2 77MUSGROVE+
7548.6 7545 ± 5	1	0.5	49.0	40.0	22 ± 4	GT = 89.0	JENDL-2 77MUSGROVE+
7589.6	1	0.5	160	40.0		GT = 200	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	NWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
7586 ± 5					32 ± 4		77MUSGROVE+
7671.0 7671.0 7819 ±80 7671 ± 8 7668 ±15	0 0 0	0.5 0.5	13890.0 14000.0 17000 ±2000	67.0 64.0		GT = 13957.0 GT = 14064.0 GND= 192 ±23 WGN= 27780 ±1000	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER 77MUSGROVE+
7713.5 7710 ± 5	1 1	0.5	10.0 11 ± 4	40.0	8 ± 2	GT = 60.0	JENDL-2 77MUSGROVE+
7801.4 7798 ± 5	1	0.5	32.7	40.0	18 ± 3	GT = 72.7	JENDL-2 77MUSGROVE+
7896.4 7893 ± 5	1 1	0.5	7.1 8 ± 3	40.0	6 ± 2	GT = 47.1	JENDL-2 77MUSGROVE+
7953.4 7950 ± 5	1	0.5	74.3	40.0	26 ± 4	GT = 114.3	JENDL-2 77MUSGROVE+
7981.4 7978 ± 5	1	0.5	93.3	40.0	28 ± 4	GT = 133.3	JENDL-2 77MUSGROVE+
8646.0 8646.0 8781 ±90 8646 ± 9	0 0	0.5 0.5	24250.0 24250.0 26000 ±3000	46.0 64.0		GT = 24296.0 GT = 24314.0 GND= 300 ±32 WGN= 48500 ±2000	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER
8774.0 8774.0 8774 ± 9	0 0	0.5 0.5	7000.0 7000.0	46.0 64.0		GT = 7046.0 GT = 7064.0 WGN= 14000 ±700	JENDL-2 JENDL-1.5 71TELLIER
9049.0 9049.0 9049 ± 9	0 0	0.5 0.5	8300.0 8300.0	46.0 64.0		GT = 8346.0 GT = 8364.0 WGN= 16800 ±800	JENDL-2 JENDL-1.5 71TELLIER
9390.0 9390.0 9390 ± 9	0 0	0.5 0.5	4760.0 4760.0	46.0 64.0		GT = 4806.0 GT = 4824.0 WGN= 9520 ±700	JENDL-2 JENDL-1.5 71TELLIER
9600.0 9600.0 9600 ±10	0 0	0.5 0.5	1710.0 1710.0	46.0 64.0		GT = 1756.0 GT = 1774.0 WGN= 3420 ±500	JENDL-2 JENDL-1.5 71TELLIER
9676.0 9676.0 9676 ±10	0 0	0.5 0.5	3210.0 3210.0	46.0 64.0		GT = 3256.0 GT = 3274.0 WGN= 6420 ±600	JENDL-2 JENDL-1.5 71TELLIER
9973.0 9973.0 9973 ±10	0 0	0.5 0.5	3695.0 3695.0	46.0 64.0		GT = 3741.0 GT = 3759.0 WGN= 7390 ±600	JENDL-2 JENDL-1.5 71TELLIER
10081.0 10081.0 10081 ±10	0 0	0.5 0.5	2260.0 2260.0	46.0 64.0		GT = 2296.0 GT = 2314.0 WGN= 4500 ±500	JENDL-2 JENDL-1.5 71TELLIER
10279.0 10279.0 10279 ±10	0 0	0.5 0.5	2005.0 2005.0	46.0 64.0		GT = 2051.0 GT = 2069.0 WGN= 4010 ±500	JENDL-2 JENDL-1.5 71TELLIER
10409.0 10409.0 10409 ±10	0 0	0.5 0.5	3440.0 3440.0	46.0 64.0		GT = 3486.0 GT = 3504.0 WGN= 6880 ±600	JENDL-2 JENDL-1.5 71TELLIER
10852.0 10852.0 10852 ±10	0 0	0.5 0.5	9275.0 9275.0	46.0 64.0		GT = 9321.0 GT = 9339.0 WGN= 18560 ±1000	JENDL-2 JENDL-1.5 71TELLIER
10905.0 10905.0 10905 ±12	0 0	0.5 0.5	4780.0 4780.0	46.0 64.0		GT = 4826.0 GT = 4844.0 WGN= 9560 ±1000	JENDL-2 JENDL-1.5 71TELLIER
11125.0 11125.0 11125 ±12	0 0	0.5 0.5	1550.0 1550.0	46.0 64.0		GT = 1596.0 GT = 1614.0 WGN= 3100 ±600	JENDL-2 JENDL-1.5 71TELLIER
11347.0 11347.0 11347 ±12	0 0	0.5 0.5	2600.0 2600.0	46.0 64.0		GT = 2646.0 GT = 2664.0 WGN= 5200 ±600	JENDL-2 JENDL-1.5 71TELLIER
11462.0 11462.0 11462 ±12	0 0	0.5 0.5	5350.0 5350.0	46.0 64.0		GT = 5396.0 GT = 5414.0 WGN= 10700 ±1000	JENDL-2 JENDL-1.5 71TELLIER
11924.0 11924.0 11924 ±12	0 0	0.5 0.5	3130.0 3130.0	46.0 64.0		GT = 3176.0 GT = 3194.0 WGN= 6260 ±600	JENDL-2 JENDL-1.5 71TELLIER
12286 ±15							71TELLIER
12400 ±15							71TELLIER
12486 ±15							71TELLIER
12810 ±15							71TELLIER
12916 ±15							71TELLIER
13038 ±15							71TELLIER
13289 ±15							71TELLIER
13433 ±15							71TELLIER
13761 ±15							71TELLIER
14050 ±15							71TELLIER

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MWS (MILLI-EV)	MISCELLANEOUS	REFERENCE
14277 ±15							71TELLIER
14527 ±15							71TELLIER
14785 ±15							71TELLIER
15030 ±15							71TELLIER
15262 ±15							71TELLIER
15620 ±15							71TELLIER
16053 ±15							71TELLIER
16223 ±15							71TELLIER
16638 ±15							71TELLIER
16908 ±15							71TELLIER
17161 ±20							71TELLIER
17420 ±20							71TELLIER
17734 ±20							71TELLIER
17857 ±20							71TELLIER
18208 ±20							71TELLIER
18517 ±20							71TELLIER
18781 ±20							71TELLIER
19354 ±20							71TELLIER
19780 ±20							71TELLIER
20219 ±25							71TELLIER
20399 ±25							71TELLIER
20890 ±25							71TELLIER
21629 ±25							71TELLIER
22303 ±25							71TELLIER
23046 ±25							71TELLIER

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
-10	0	0.5	0.89			GT = 80.89 GT = 80 COM = M-L-B-W	JENDL-2
76.82 76.8 76.8 76.9 ± 0.1 76.74 76.33 76.82 ± 0.07	0 0 0 0	0.5 0.5 0.5 0.5	18.9 18.4 18.4 15.1 ± 1.6 21 ± 2 18 ± 2.5	52.0 52.0 52.0 115 ± 20 (70 ± 20) 52.1 ± 10.012		GT = 70.9 GT = 70.4 GT = 70.4 GNO = 1.7 ± 0.2 GT = 127 ± 20 WGN = 37.8 ± 1.0 GT = 71 ± 10	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 69MIGNECO+ 71TELLIER
265.9 265.9 265.9 265.9 ± 0.2	0 0 0 0	0.5 0.5 0.5 0.5	0.4 0.4 0.4 0.4	70.0 70.0 72.0		GT = 70.4 GT = 70.4 GT = 72.4 WGN = 0.8 ± 0.1	JENDL-2 JENDL-1.5 ENDF-B-4 71TELLIER
313.2 313.2 313.2 314 ± 1 313.2 ± 0.3	0 0 0 0	0.5 0.5 0.5 0.5	425.0 425.0 425.0 420 ± 20	66.0 66.0 66.0 66 ± 10 85.0 ± 52.202		GT = 491.0 GT = 491.0 GT = 491.0 GNO = 23.7 ± 1.4 WGN = 850 ± 30 GT = 510 ± 50	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 71TELLIER
459.0 459.0 459.0 459.0 ± 0.5	0 0 0 0	0.5 0.5 0.5 0.5	1.5 1.5 1.5 1.5	70.0 70.0 72.0		GT = 71.5 GT = 71.5 GT = 73.5 WGN = 3.0 ± 0.5	JENDL-2 JENDL-1.5 ENDF-B-4 71TELLIER
486.0 486.0 486.0 487 ± 2 486.4 486.0 ± 0.5	0 0 0 0	0.5 0.5 0.5 0.5	975.0 1000.0 1000.0 1130 ± 100 1500 ± 100	74.0 74.0 74.0 74 ± 11 145 ± 111.8		GT = 1049.0 GT = 1074.0 GT = 1074.0 GNO = 51 ± 5 GT = 750 ± 150 WGN = 1950 ± 100 GT = 1120 ± 100	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 69ALVES+ 71TELLIER
662.7 662.7 662.7 662.7 ± 0.7	0 0 0 0	0.5 0.5 0.5 0.5	17.8 17.8 17.8 17.8	70.0 70.0 72.0		GT = 87.8 GT = 87.8 GT = 89.8 WGN = 35.6 ± 1.5	JENDL-2 JENDL-1.5 ENDF-B-4 71TELLIER
769.2 769.2 769.2 774 ± 3 769.2 ± 0.7	0 0 0 0	0.5 0.5 0.5 0.5	470.0 486.0 486.0 560 ± 40	84.0 84.0 84.0 84 ± 13 100 ± 52.202		GT = 554.0 GT = 570.0 GT = 570.0 GNO = 20 ± 1.4 WGN = 940 ± 30 GT = 570 ± 50	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 71TELLIER
953.5 953.5 953.5 953.5 ± 1.0	0 0 0 0	0.5 0.5 0.5 0.5	6.1 6.1 6.1 6.1	70.0 70.0 72.0		GT = 76.1 GT = 76.1 GT = 78.1 WGN = 12.2 ± 1.5	JENDL-2 JENDL-1.5 ENDF-B-4 71TELLIER
1032.2 1032.2 1032.2 1035 ± 5 1032.2 ± 1.0	0 0 0 0	0.5 0.5 0.5 0.5	1520.0 1540.0 1540.0 1600 ± 140	82.0 82.0 82.0 82 ± 12 100 ± 111.80		GT = 1602.0 GT = 1622.0 GT = 1622.0 GNO = 50 ± 4.4 WGN = 3040 ± 100 GT = 1620 ± 100	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 71TELLIER
1150.6 1150.6 1150.6 1150.6 ± 1.0	0 0 0 0	0.5 0.5 0.5 0.5	8.25 8.25 8.25 8.25	70.0 70.0 72.0		GT = 78.25 GT = 78.25 GT = 80.25 WGN = 16.5 ± 1.0	JENDL-2 JENDL-1.5 ENDF-B-4 71TELLIER
1331.0 1331.0 1331.0 1340 ± 6 1331.0 ± 2.0	0 0 0 0	0.5 0.5 0.5 0.5	460.0 485.0 485.0 588 ± 80	70.0 70.0 72.0 255 ± 103.08		GT = 530.0 GT = 555.0 GT = 557.0 GNO = 15 ± 2 WGN = 920 ± 50 GT = 715 ± 100	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 71TELLIER
1468.0 1468.0 1468.0 1476 ± 7 1468.0 ± 2.0	0 0 0 0	0.5 0.5 0.5 0.5	1215.0 1250.0 1250.0 1630 ± 130	70.0 70.0 72.0		GT = 1265.0 GT = 1320.0 GT = 1322.0 GNO = 47.6 ± 3.4 WGN = 2430 ± 50	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 71TELLIER
1713.4 1713.4 1713.4 1724 ± 8 1713.4 ± 2.0	0 0 0 0	0.5 0.5 0.5 0.5	2125.0 2125.0 2125.0 2000 ± 200	70.0 70.0 72.0		GT = 2195.0 GT = 2195.0 GT = 2197.0 GNO = 48 ± 5 WGN = 4250 ± 200	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 71TELLIER
1771.0 1771.0 1771.0 1784 ± 9 1771.0 ± 2.0	0 0 0 0	0.5 0.5 0.5 0.5	1995.0 1980.0 1980.0 1360 ± 160	70.0 70.0 72.0		GT = 2065.0 GT = 1970.0 GT = 1972.0 GNO = 32 ± 4 WGN = 3990 ± 200	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 71TELLIER
1861.0 1861.9 1861.9 1871 ± 8 1861.9 ± 2.0	0 0 0 0	0.5 0.5 0.5 0.5	405.0 300.0 300.0 162 ± 71	70.0 70.0 72.0 20.0 ± 44.721		GT = 475.0 GT = 370.0 GT = 372.0 GNO = 3.7 ± 1.6 WGN = 810 ± 40 GT = 425 ± 40	JENDL-2 JENDL-1.5 ENDF-B-4 68KARZHAVINA+ 71TELLIER
2326.7 2326.7 2326.7 ± 2.5	0 0 0	0.5 0.5 0.5	277.5 278.0	70.0 70.0 32.5 ± 101.12		GT = 347.5 GT = 348.0 WGN = 555 ± 30 GT = 310 ± 100	JENDL-2 JENDL-1.5 71TELLIER
2521.5	0	0.5	1250.0	70.0		GT = 1320.0	JENDL-2

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
2521.5 2550 ±14 2521.5 ± 2.5	0	0.5	1300.0 1770 ±190	70.0		GT = 1370.0 GNO= 35 ± 4 WGN= 2500 ±100	JENDL-1.5 68KARZHAVINA+ 71TELLIER
2619.9 2619.9 2619.9 ± 3.0	0 0	0.5 0.5	340.0 340.0	80.0 80.0 80.0 ±150.75		GT = 420.0 GT = 420.0 WGN= 680 ±30 GT = 420 ±150	JENDL-2 JENDL-1.5 71TELLIER
2730.2 2730.2 2750 ±16 2730.2 ± 3.0	0 0	0.5 0.5	11300.0 11300.0 10000 ±1000	70.0 70.0		GT = 11370.0 GT = 11370.0 GNO= 190 ±19 WGN= 22600 ±1000	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER
2849.9 2849.9 2870 ±17 2849.9 ± 3.0	0 0	0.5 0.5	3800.0 3500.0 2900 ±300	70.0 70.0		GT = 3870.0 GT = 3570.0 GNO= 54 ± 6 WGN= 7600 ±300	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER
3178.5 3178.5 3185 ±20 3178.5 ± 3.0	0 0	0.5 0.5	565.0 565.0 440 ±330	70.0 70.0		GT = 635.0 GT = 635.0 GNO= 8 ± 6 WGN= 1130 ±50	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER
3296.2 3296.2 3296.2 ± 3.5	0 0	0.5 0.5	12.5 12.5	70.0 70.0		GT = 82.5 GT = 82.5 WGN= 25 ±10	JENDL-2 JENDL-1.5 71TELLIER
3444.0 3444.0 3444 ± 4	0 0	0.5 0.5	897.5 898.0	70.0 70.0		GT = 967.5 GT = 968.0 WGN= 1795 ±60	JENDL-2 JENDL-1.5 71TELLIER
3502.0 3502.0 3521 ±25 3502 ± 4	0 0	0.5 0.5	4080.0 4080.0 5500 ±550	70.0 70.0		GT = 4150.0 GT = 4150.0 GNO= 93 ± 9 WGN= 8160 ±200	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER
3820.0 3820.0 3843 ±30 3820 ± 4	0 0	0.5 0.5	7045.0 7045.0 6500 ±600	70.0 70.0		GT = 7115.0 GT = 7115.0 GNO= 105 ±10 WGN= 14090 ±300	JENDL-2 JENDL-1.5 68KARZHAVINA+ 71TELLIER
3986.0 3986.0 3986 ± 4	0 0	0.5 0.5	250.0 250.0	70.0 70.0		GT = 320.0 GT = 320.0 WGN= 500 ±30	JENDL-2 JENDL-1.5 71TELLIER
4254.0 4254.0 4254 ± 5	0 0	0.5 0.5	845.0 845.0	70.0 70.0		GT = 915.0 GT = 915.0 WGN= 1680 ±80	JENDL-2 JENDL-1.5 71TELLIER
4337.0 4337.0 4337 ± 5	0 0	0.5 0.5	32.5 3.3	70.0 70.0		GT = 102.5 GT = 73.3 WGN= 85 ±20	JENDL-2 JENDL-1.5 71TELLIER
4465.0 4465.0 4465 ± 5	0 0	0.5 0.5	1737.5 1738.0	70.0 70.0		GT = 1807.5 GT = 1808.0 WGN= 3475 ±100	JENDL-2 JENDL-1.5 71TELLIER
4651.0 4651.0 4651 ± 5	0 0	0.5 0.5	2310.0 2310.0	70.0 70.0		GT = 2380.0 GT = 2380.0 WGN= 4620 ±200	JENDL-2 JENDL-1.5 71TELLIER
4753.0 4753.0 4753 ± 5	0 0	0.5 0.5	215.0 215.0	70.0 70.0		GT = 285.0 GT = 285.0 WGN= 430 ±40	JENDL-2 JENDL-1.5 71TELLIER
4934.0 4934.0 4934 ± 5	0 0	0.5 0.5	427.5 428.0	70.0 70.0		GT = 497.5 GT = 498.0 WGN= 855 ±80	JENDL-2 JENDL-1.5 71TELLIER
4962.0 4962.0 4962 ± 5	0 0	0.5 0.5	330.0 330.0	70.0 70.0		GT = 400.0 GT = 400.0 WGN= 660 ±40	JENDL-2 JENDL-1.5 71TELLIER
5043.0 5043.0 5043 ± 5	0 0	0.5 0.5	550.0 550.0	70.0 70.0		GT = 620.0 GT = 620.0 WGN= 1100 ±80	JENDL-2 JENDL-1.5 71TELLIER
5141.0 5141.0 5141 ± 5	0 0	0.5 0.5	110.0 110.0	70.0 70.0		GT = 180.0 GT = 180.0 WGN= 220 ±80	JENDL-2 JENDL-1.5 71TELLIER
5185.0 5185.0 5185 ± 5	0 0	0.5 0.5	112.5 113.0	70.0 70.0		GT = 182.5 GT = 183.0 WGN= 225 ±80	JENDL-2 JENDL-1.5 71TELLIER
5331.0 5331.0 5331 ± 6	0 0	0.5 0.5	2080.0 2080.0	70.0 70.0		GT = 2150.0 GT = 2150.0 WGN= 4160 ±200	JENDL-2 JENDL-1.5 71TELLIER
5468.0 5468.0 5468 ± 6	0 0	0.5 0.5	4350.0 4350.0	70.0 70.0		GT = 4420.0 GT = 4420.0 WGN= 8700 ±300	JENDL-2 JENDL-1.5 71TELLIER
5657.0 5657.0 5657 ± 6	0 0	0.5 0.5	112.5 113.0	70.0 70.0		GT = 182.5 GT = 183.0 WGN= 225 ±30	JENDL-2 JENDL-1.5 71TELLIER
5856.0 5856.0 5856 ± 6	0 0	0.5 0.5	12100.0 12200.0	70.0 70.0		GT = 12170.0 GT = 12270.0 WGN= 24200 ±4000	JENDL-2 JENDL-1.5 71TELLIER
6123.0 6123.0 6123 ± 6	0 0	0.5 0.5	9965.0 9965.0	70.0 70.0		GT = 10035.0 GT = 10035.0 WGN= 19930 ±900	JENDL-2 JENDL-1.5 71TELLIER
6329.0	0	0.5	8980.0	70.0		GT = 9050.0	JENDL-2

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	WMS (MILLI-EV)	MISCELLANEOUS	REFERENCE
6329.0 6329 ± 6	0	0.5	8980.0	70.0		GT = 9050.0 WGN= 17960 ±1200	JENDL-1.5 7ITELLIER
6699.0 6699.0 6699 ± 7	0 0	0.5 0.5	855.0 855.0	70.0 70.0		GT = 925.0 GT = 925.0 WGN= 1710 ±300	JENDL-2 JENDL-1.5 7ITELLIER
6800.0 6800.0 6800 ± 7	0 0	0.5 0.5	465.0 465.0	70.0 70.0		GT = 535.0 GT = 535.0 WGN= 930 ±300	JENDL-2 JENDL-1.5 7ITELLIER
6853.0 6853.0 6853 ± 7	0 0	0.5 0.5	3425.0 3425.0	70.0 70.0		GT = 3495.0 GT = 3495.0 WGN= 6850 ±600	JENDL-2 JENDL-1.5 7ITELLIER
7060.0 7060.0 7060 ± 7	0 0	0.5 0.5	1255.0 1255.0	70.0 70.0		GT = 1325.0 GT = 1325.0 WGN= 2510 ±500	JENDL-2 JENDL-1.5 7ITELLIER
7158.0 7158.0 7158 ± 7	0 0	0.5 0.5	5575.0 5575.0	70.0 70.0		GT = 5645.0 GT = 5645.0 WGN= 11150 ±1000	JENDL-2 JENDL-1.5 7ITELLIER
7404.0 7404.0 7404 ± 7	0 0	0.5 0.5	500.0 500.0	70.0 70.0		GT = 570.0 GT = 570.0 WGN= 1000 ±300	JENDL-2 JENDL-1.5 7ITELLIER
7533.0 7533.0 7533 ± 7	0 0	0.5 0.5	14000.0 14000.0	70.0 70.0		GT = 14070.0 GT = 14070.0 WGN= 28000 ±1500	JENDL-2 JENDL-1.5 7ITELLIER
7589.0 7589.0 7589 ± 8	0 0	0.5 0.5	34600.0 34600.0	70.0 70.0		GT = 34670.0 GT = 34670.0 WGN= 69200 ±2500	JENDL-2 JENDL-1.5 7ITELLIER
7666.0 7666.0 7666 ± 8	0 0	0.5 0.5	960.0 960.0	70.0 70.0		GT = 1030.0 GT = 1030.0 WGN= 1920 ±600	JENDL-2 JENDL-1.5 7ITELLIER
7824.0 7824.0 7824 ± 8	0 0	0.5 0.5	3990.0 3990.0	70.0 70.0		GT = 4060.0 GT = 4060.0 WGN= 7980 ±1000	JENDL-2 JENDL-1.5 7ITELLIER
8082.0 8082.0 8082 ± 8	0 0	0.5 0.5	8640.0 8640.0	70.0 70.0		GT = 8710.0 GT = 8710.0 WGN= 17280 ±1200	JENDL-2 JENDL-1.5 7ITELLIER
8166.0 8166.0 8166 ± 8	0 0	0.5 0.5	7275.0 7275.0	70.0 70.0		GT = 7345.0 GT = 7345.0 WGN= 14550 ±1200	JENDL-2 JENDL-1.5 7ITELLIER
8284.0 8284.0 8284 ± 8	0 0	0.5 0.5	7370.0 7370.0	70.0 70.0		GT = 7440.0 GT = 7440.0 WGN= 14740 ±1200	JENDL-2 JENDL-1.5 7ITELLIER
8438.0 8438.0 8438 ± 8	0 0	0.5 0.5	565.0 565.0	70.0 70.0		GT = 635.0 GT = 635.0 WGN= 1130 ±300	JENDL-2 JENDL-1.5 7ITELLIER
8743.0 8743.0 8743 ± 9	0 0	0.5 0.5	10315.0 10315.0	70.0 70.0		GT = 10385.0 GT = 10385.0 WGN= 20630 ±600	JENDL-2 JENDL-1.5 7ITELLIER
8953.0 8953.0 8953 ± 9	0 0	0.5 0.5	16715.0 16715.0	70.0 70.0		GT = 16785.0 GT = 16785.0 WGN= 33430 ±1000	JENDL-2 JENDL-1.5 7ITELLIER
9175.0 9175.0 9175 ± 9	0 0	0.5 0.5	450.0 450.0	70.0 70.0		GT = 520.0 GT = 520.0 WGN= 900 ±200	JENDL-2 JENDL-1.5 7ITELLIER
9303.0 9303.0 9303 ± 9	0 0	0.5 0.5	12385.0 12385.0	70.0 70.0		GT = 12455.0 GT = 12455.0 WGN= 24770 ±1000	JENDL-2 JENDL-1.5 7ITELLIER
9529.0 9529.0 9529 ±10	0 0	0.5 0.5	6900.0 6900.0	70.0 70.0		GT = 6970.0 GT = 6970.0 WGN= 13800 ±600	JENDL-2 JENDL-1.5 7ITELLIER
9906.0 9906.0 9906 ±10	0 0	0.5 0.5	3190.0 3190.0	70.0 70.0		GT = 3260.0 GT = 3260.0 WGN= 6380 ±600	JENDL-2 JENDL-1.5 7ITELLIER
10010.0 10010.0 10010 ±10	0 0	0.5 0.5	2725.0 2725.0	70.0 70.0		GT = 2795.0 GT = 2795.0 WGN= 5450 ±600	JENDL-2 JENDL-1.5 7ITELLIER
10315.0 10315.0 10315 ±10	0 0	0.5 0.5	3400.0 3400.0	70.0 70.0		GT = 3470.0 GT = 3470.0 WGN= 6800 ±800	JENDL-2 JENDL-1.5 7ITELLIER
10389.0 10389.0 10389 ±10	0 0	0.5 0.5	25165.0 25165.0	70.0 70.0		GT = 25235.0 GT = 25235.0 WGN= 50330 ±1500	JENDL-2 JENDL-1.5 7ITELLIER
10998.0 10998.0 10998 ±10	0 0	0.5 0.5	3110.0 3110.0	70.0 70.0		GT = 3180.0 GT = 3180.0 WGN= 6220 ±800	JENDL-2 JENDL-1.5 7ITELLIER
11147.0 11147.0 11147 ±15	0 0	0.5 0.5	5340.0 5340.0	70.0 70.0		GT = 5410.0 GT = 5410.0 WGN= 10680 ±1000	JENDL-2 JENDL-1.5 7ITELLIER
11262.0 11262.0 11262 ±15	0 0	0.5 0.5	3850.0 3850.0	70.0 70.0		GT = 3920.0 GT = 3920.0 WGN= 7700 ±800	JENDL-2 JENDL-1.5 7ITELLIER

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ENERGY (eV)	L	J	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	HW5 (MILLI-EV)	MISCELLANEOUS	REFERENCE
11647.0 11647.0 11647 ±15	0 0	0.5 0.5	7050.0 7050.0	70.0 70.0		GT = 7120.0 GT = 7120.0 WGN= 14100 ±1000	JENDL-2 JENDL-1.5 71TELLIER
11932.0 11932.0 11932 ±15	0 0	0.5 0.5	2400.0 2400.0	70.0 70.0		GT = 2470.0 GT = 2470.0 WGN= 4800 ±600	JENDL-2 JENDL-1.5 71TELLIER
12119.0 12119.0 12119 ±15	0 0	0.5 0.5	12320.0 12320.0	70.0 70.0		GT = 12390.0 GT = 12390.0 WGN= 24640 ±1500	JENDL-2 JENDL-1.5 71TELLIER
12456.0 12456.0 12456 ±15	0 0	0.5 0.5	1490.0 1490.0	70.0 70.0		GT = 1500.0 GT = 1500.0 WGN= 2860 ±600	JENDL-2 JENDL-1.5 71TELLIER
12747.0 12747.0 12747 ±15	0 0	0.5 0.5	2355.0 2355.0	70.0 70.0		GT = 2425.0 GT = 2425.0 WGN= 4710 ±600	JENDL-2 JENDL-1.5 71TELLIER
13083.0 13083.0 13083 ±15	0 0	0.5 0.5	10420.0 10410.0	70.0 70.0		GT = 10490.0 GT = 10490.0 WGN= 20640 ±1000	JENDL-2 JENDL-1.5 71TELLIER
13312.0 13312.0 13312 ±15	0 0	0.5 0.5	2260.0 2260.0	70.0 70.0		GT = 2330.0 GT = 2330.0 WGN= 4520 ±600	JENDL-2 JENDL-1.5 71TELLIER
13378.0 13378.0 13378 ±15	0 0	0.5 0.5	25185.0 25185.0	70.0 70.0		GT = 25255.0 GT = 25255.0 WGN= 50370 ±2000	JENDL-2 JENDL-1.5 71TELLIER
13537.0 13537.0 13537 ±15	0 0	0.5 0.5	2565.0 2565.0	70.0 70.0		GT = 2635.0 GT = 2635.0 WGN= 5130 ±1000	JENDL-2 JENDL-1.5 71TELLIER
13844.0 13844.0 13844 ±15	0 0	0.5 0.5	1130.0 1130.0	70.0 70.0		GT = 1200.0 GT = 1200.0 WGN= 2260 ±400	JENDL-2 JENDL-1.5 71TELLIER
14220 ±20							71TELLIER
14330 ±20							71TELLIER
14480 ±20							71TELLIER
14660 ±20							71TELLIER
15180 ±20							71TELLIER
15620 ±20							71TELLIER
15930 ±20							71TELLIER
16140 ±20							71TELLIER
16290 ±20							71TELLIER
17160 ±20							71TELLIER
18970 ±20							71TELLIER
22100 ±25							71TELLIER
24730 ±25							71TELLIER

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
-1.6 -1.8 -1.8	0 0 0	3.5 3.5	82.6	2.4 2.5	65 80.0 80	COM= M-L-B-W WGO= 2.05 COM= SHAPE-AN WGO= 1.84 COM= AREA-AN	JENDL-2 JENDL-1 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
-1.6 -1.53	0 0			^R 2.1	73.0		79ANUFRIEY+
1.04	0			^R 0.0055		WGO= 0.0054	58HARVEY+
5.36 5.36 5.43 5.35 ± 0.02	0 0 0 0	3.5 3.5	104.3	35.1 ± 2.1 34.3 ^R 33.0 ± 3.0	69 ± 3 70.0 74 ± 10	WGO= 14.2 WGO= 14.22 ± 0.75 COM= SHAPE-AN WGO= 16.0 ± 0.8 COM= SHAPE-AN	JENDL-2 JENDL-1 58HARVEY+ 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
5.36 ± 0.02 5.37 ± 0.012	0 0		104.0 ± 6.0 144.0 ± 5.0	^R 20.57 ± 0.5	67.0 ± 6.0		73KIROUAC+ 79ANUFRIEY+
6.57 6.57 6.64 6.56 ± 0.03	0 0 0 0	3.5 3.5	80.8	1.58 ± 0.01 1.8 ^R 1.5 ± 0.2	67 ± 2 79.0 70 ± 10	WGO= 0.38 WGO= 0.809 ± 0.05 COM= SHAPE-AN WGO= 0.62 ± 0.04 COM= SHAPE-AN	JENDL-2 JENDL-1 58HARVEY+ 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
6.57 ± 0.03 6.58 ± 0.015	0 0		68.0 ± 7.0 54.0 ± 4.0	^R 1.39 ± 0.04	66.0 ± 7.0		73KIROUAC+ 79ANUFRIEY+
6.92 6.92 7.0 6.92 ± 0.03	0 0 0 0	3.5 3.5	68.6	4.16 ± 0.10 4.6 ^R 4.4 ± 0.4	65 ± 3 64.0 61 ± 8	WGO= 1.7 WGO= 1.63 ± 0.1 COM= SHAPE-AN WGO= 1.55 ± 0.08 COM= SHAPE-AN	JENDL-2 JENDL-1 58HARVEY+ 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
6.92 ± 0.03 6.93 ± 0.015	0 0		72.0 ± 7.0 72.0 ± 7.0	^R 3.81 ± 0.24	68.0 ± 7.0		73KIROUAC+ 79ANUFRIEY+
15.2 15.11 15.6 15.11 ± 0.08	0 0 0 0	3.5 3.5	84.2	1.23 ± 0.03 1.2 ^R 2.0 ± 0.6	65 ± 2 63.0 63 ± 8	WGO= 0.5 WGO= 0.329 ± 0.03 COM= S4A-ANAL WGO= 0.31 ± 0.02 COM= AREA-AN	JENDL-2 JENDL-1 58HARVEY+ 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
15.2 ± 0.05 15.17 ± 0.07	0 0		87.0 ± 4.0	^R 1.27 ± 0.02	(67)		73KIROUAC+ 79ANUFRIEY+
19.6 19.5 20.0 19.5 ± 0.1	0 0 0 0	3.5 3.5	67.2	4.21 ± 0.15 4.2 ^R 3.7 ± 0.7	63 ± 3 63.0 60 ± 8	WGO= 0.8 WGO= 1.01 ± 0.07 COM= S4A-ANAL WGO= 0.93 ± 0.04 COM= AREA-AN	JENDL-2 JENDL-1 58HARVEY+ 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
19.6 ± 0.05 19.54 ± 0.07	0 0		79.0 ± 4.0	^R 4.04 ± 0.05	(67)		73KIROUAC+ 79ANUFRIEY+
21.53 21.53 ± 0.08	0 0	3.5		0.026 ± 0.013 0.026 ± 0.013	(66.5)		JENDL-2 79ANUFRIEY+
23.09 23.09 ± 0.09	0 0	3.5		0.06 ± 0.02 ^R 0.06 ± 0.02	(66.5)		JENDL-2 79ANUFRIEY+
29.3 29.2 29.1 ± 0.2	0 0 0	3.5 3.5	84.7	2.25 ± 0.36 1.7	(66.5) 63.0 (66)	WGO= 0.452 ± 0.05 COM= S4A-ANAL WGO= 0.29 ± 0.06 COM= AREA-AN	JENDL-2 JENDL-1 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
29.3 ± 0.1 29.2 ± 0.12	0 0		123.0 ± 14.0	^R 2.12 ± 0.06	(67)		73KIROUAC+ 79ANUFRIEY+
35.4 35.4 33.4 35.2 ± 0.3	0 0 0 0	3.5 3.5	63.42	0.38 ± 0.06 0.42 ^R 9.0 ± 2.0	(66.5) 63.0 (66)	WGO= 1.6 WGO= 0.08 ± 0.04 COM= S4A-ANAL WGO= 0.057 ± 0.02 COM= AREA-AN	JENDL-2 JENDL-1 58HARVEY+ 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
35.4 ± 0.1 35.31 ± 0.15	0 0		149.0 ± 50.0	^R 0.42 ± 0.08	(67)		73KIROUAC+ 79ANUFRIEY+
38.1 38.1 38.0 ± 0.3	0 0 0	3.5 3.5	87.7	24.8 ± 0.2 24.7	(66.5) 63.0 (66)	WGO= 4.1 ± 0.6 COM= S4A-ANAL WGO= 4.0 ± 0.3 COM= AREA-AN	JENDL-2 JENDL-1 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
38.1 ± 0.1 38.02 ± 0.15	0 0		137.0 ± 10.0	^R 20.72 ± 0.55	(67)		73KIROUAC+ 79ANUFRIEY+
39.9 39.9 41.4 39.8 ± 0.3	0 0 0 0	3.5 3.5	78.8	16.0 ± 0.6 15.8 ^R 60.0 ± 20.0	(66.5) 63.0 (66)	WGO= 9.6 WGO= 2.85 ± 0.8 COM= S4A-ANAL WGO= 2.5 ± 0.2 COM= AREA-AN	JENDL-2 JENDL-1 58HARVEY+ 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
39.9 ± 0.1 39.84 ± 0.15	0 0		138.0 ± 12.0	^R 17.17 ± 0.46	(67)		73KIROUAC+ 79ANUFRIEY+
43.2	0			^R 8.0 ± 4.0		WGO= 1.2	58HARVEY+
45.7 45.6 46.6 45.5 ± 0.4	0 0 0 0	3.5 3.5	87.3	24.5 ± 0.9 24.3	(66.5) 63.0 (66)	COM= UNRSLVD WGO= 3.4 ± 0.5 COM= S4A-ANAL WGO= 3.7 ± 0.3 COM= AREA-AN	JENDL-2 JENDL-1 58HARVEY+ 71CODDING+ 73KIROUAC+ 79ANUFRIEY+
45.7 ± 0.1 45.46 ± 0.16	0 0		139.0 ± 12.0	^R 21.38 ± 0.52	(67)		73KIROUAC+ 79ANUFRIEY+
48.2	0	3.5		18.7 ± 0.1	(66.5)		JENDL-2

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
48.1 47.8 48.0 ± 0.5	0 0 0	3.5	81.7	18.7	63.0 (66)	COM= UNRSLVD WGO= 2.65 ± 0.4 COM= S4A-ANAL WGO= 2.7 ± 0.15 COM= ARER-AN	JENDL-1 58HARVEY+ 71CODDING+
48.2 ± 0.2	0				(67)		73KIROURC+
47.98 ± 0.16	0		95.0 ± 13.0	^a 18.67 ± 0.41			79ANUFRIEV+
50.3	0			^a 40.0 ± 15.0		WGO= 5.6	58HARVEY+
52.4 52.3 52.1 ± 0.5	0 0 0	3.5 3.5	65.2	2.19 ± 0.04 2.2	(66.5) 63.0 (66)	WGO= 0.32 ± 0.06 COM= S4A-ANAL WGO= 0.3 ± 0.02 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
52.4 ± 0.2	0				(67)		73KIROURC+
52.21 ± 0.18	0			^a 2.79 ± 0.45			79ANUFRIEV+
55.8 55.7 55.7 ± 0.6	0 0 0	3.5 3.5	64.5	1.35 ± 0.11 1.5	(33.5) 63.0 (66)	WGO= 0.17 ± 0.05 COM= S4A-ANAL WGO= 0.2 ± 0.08 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
55.8 ± 0.2	0				(67)		73KIROURC+
55.55 ± 0.18	0			^a 1.93 ± 0.41			79ANUFRIEV+
64.8 ± 0.7	0				(66)	WGO= 2.0 ± 0.5 COM= SHAPE-A	71CODDING+
65.4 65.4 65.3 ± 0.7	0 0 0	3.5 3.5	117.2	54.2 ± 4.8 54.2	(66.5) 63.0 (66)	COM= KIROURC WGO= 1.83 ± 0.45 COM= SHAPE-A WGO= 6.7 ± 0.6 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
65.4 ± 0.2	0				(67)		73KIROURC+
65.2 ± 0.19	0			^a 55.4 ± 6.3			79ANUFRIEV+
65.5	0				(66)	WGO= 9.0 ± 3.0 COM= DOUBLET	71CODDING+
82.5 82.5 82.6	0 0 0	3.5 3.5	90.2	26.7 ± 2.6 27.2	(66.5) 63.0 (66)	WGO= 3.5 ± 1.0 COM= ARER-AN WGO= 2.8 ± 0.4 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
82.5 ± 0.2	0				(67)		73KIROURC+
82.1 ± 0.2	0			^a 30.6 ± 5.9			79ANUFRIEV+
85.4 85.4 85.5	0 0 0	3.5 3.5	93.5	32.0 ± 2.7 30.5	(66.5) 63.0 (66)	WGO= 4.0 ± 1.1 COM= ARER-AN WGO= 3.3 ± 0.5 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
85.4 ± 0.2	0				(67)		73KIROURC+
85.1 ± 0.2	0			^a 34.6 ± 6.3			79ANUFRIEV+
89.8 89.8	0 0	3.5		1.1 ± 0.4	(66.5) (66)	WGO= 0.12 ± 0.04 COM= ARER-AN	JENDL-2 71CODDING+
91.5 91.5	0 0	3.5		0.96 ± 0.29	(66.5) (66)	WGO= 0.1 ± 0.03 COM= ARER-AN	JENDL-2 71CODDING+
95.2 95.2 95.4	0 0 0	3.5 3.5	87.4	23.8 ± 1.9 24.4	(66.5) 63.0 (66)	WGO= 2.7 ± 0.8 COM= ARER-AN WGO= 2.3 ± 0.5 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
95.2 ± 0.3	0				(67)		73KIROURC+
94.7 ± 0.3	0			^a 21.2 ± 3.7			79ANUFRIEV+
99.5 99.5 99.8	0 0 0	3.5 3.5	99.9	36.8 ± 1.5 36.9	(66.5) 63.0 (66)	WGO= 3.0 ± 1.8 COM= ARER-AN WGO= 3.7 ± 0.5 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
99.5 ± 0.3	0				(67)		73KIROURC+
98.9 ± 0.4	0			^a 38.2 ± 7.5			79ANUFRIEV+
115.1 115.1 115.2	0 0 0	3.5 3.5	127.4	65.8 ± 5.9 64.4	(66.5) 63.0 (66)	WGO= 5.0 ± 1.6 COM= ARER-AN WGO= 6.4 ± 1.0 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
115.1 ± 0.3	0				(67)		73KIROURC+
114.3 ± 0.5	0			^a 56.6 ± 6.8			79ANUFRIEV+
117.7 117.7	0 0	3.5		2.6 ± 0.9	(66.5) (66)	WGO= 0.24 ± 0.08 COM= ARER-AN	JENDL-2 71CODDING+
131.1 131.1 131.5	0 0 0	3.5 3.5	246.2	185 ± 7 183.2	(66.5) 63.0 (66)	WGO= 15.0 ± 5.0 COM= ARER-AN WGO= 16.5 ± 3.0 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
131.1 ± 0.3	0				(67)		73KIROURC+
130.3 ± 0.6	0			^a 138.0 ± 21.0			79ANUFRIEV+
140.5 140.5 140.1	0 0 0	3.5 3.5	66.4	8.1 ± 5.9 2.4	(66.5) 63.0 (66)	COM= KIROURC WGO= 0.27 ± 0.2 COM= ARER-AN WGO= 0.68 ± 0.5 COM= ARER-AN	JENDL-2 JENDL-1 71CODDING+
140.5 ± 0.5	0				(67)		73KIROURC+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
139.8 ± 0.6	0			9.1 ± 5.7			79ANUFRIEY+
144.6	0	3.5		47 ± 8	(66.5)		JENDL-2
144.6	0	3.5	73.8	10.8	63.0	WGO= 3.9 ± 0.7	JENDL-1
144.6 ± 0.5	0				(67)	COM= AREA-AN	73KIROUAC+
143.1 ± 0.7	0			15.0 ± 5.0			79ANUFRIEY+
147.9	0	3.5		93 ± 2	(66.5)		JENDL-2
147.9	0	3.5	157.8	94.8	63.0	WGO= 8.0 ± 3.0	JENDL-1
148.5	0				(66)	COM= AREA-AN	71CODDING+
147.9 ± 0.5	0				(67)	WGO= 7.6 ± 1.0	73KIROUAC+
146.5 ± 0.7	0			92.0 ± 24.0		COM= AREA-AN	79ANUFRIEY+
153.9	0	3.5		49.6 ± 0.1	(66.5)		JENDL-2
153.9	0	3.5	112.6	49.6	63.0	WGO= 4.0 ± 1.5	JENDL-1
154.3	0				(66)	COM= AREA-AN	71CODDING+
153.9 ± 0.5	0				(67)	WGO= 4.0 ± 1.0	73KIROUAC+
153.2 ± 0.7	0			87.0 ± 26.0		COM= AREA-AN	79ANUFRIEY+
173.2	0	3.5		314 ± 21	(66.5)		JENDL-2
173.2	0	3.5	385.0	322.0	63.0	WGO= 20.0 ± 8.0	JENDL-1
174.0	0				(66)	COM= AREA-AN	71CODDING+
173.2 ± 0.7	0				(67)	WGO= 24.5 ± 4.0	73KIROUAC+
172.2 ± 0.8	0			336.0 ± 55.0		COM= AREA-AN	79ANUFRIEY+
178.8	0	3.5		14 ± 2	(66.5)		JENDL-2
178.8	0	3.5	79.0	16.0	63.0	WGO= 0.9 ± 0.4	JENDL-1
179.1	0				(66)	COM= AREA-AN	71CODDING+
178.8 ± 0.7	0				(67)	WGO= 1.2 ± 0.5	73KIROUAC+
177.7 ± 0.9	0			25.0 ± 15.0		COM= AREA-AN	79ANUFRIEY+
189.9	0	3.5		116 ± 3	(66.5)		JENDL-2
189.9	0	3.5	181.0	116.0	63.0	WGO= 8.0 ± 3.3	JENDL-1
190.3	0				(66)	COM= AREA-AN	71CODDING+
189.9 ± 0.7	0				(67)	WGO= 8.6 ± 1.9	73KIROUAC+
192.2	0	3.5		121 ± 2	(66.5)		JENDL-2
192.2	0	3.5	184.0	121.0	63.0	WGO= 9.0 ± 3.8	JENDL-1
193.1	0				(66)	COM= AREA-AN	71CODDING+
192.2 ± 0.7	0				(67)	WGO= 8.7 ± 1.8	73KIROUAC+
208.4	0	3.5		197 ± 33	(66.5)		JENDL-2
208.4	0	3.5	200.0	137.0	63.0	WGO= 9.5 ± 2.3	JENDL-1
208.4 ± 0.8	0				(67)	COM= AREA-AN	73KIROUAC+
211.2	0	3.5		115 ± 31	(66.5)		JENDL-2
211.2	0	3.5	195.0	132.0	63.0	WGO= 4.0 ± 1.8	JENDL-1
211.1	0				(66)	COM= AREA-AN	71CODDING+
211.2 ± 0.8	0				(67)	WGO= 9.1 ± 2.2	73KIROUAC+
220.3	0	3.5		107 ± 30	(66.5)		JENDL-2
220.3	0	3.5	170.0	107.0	63.0	COM= KIROUAC	JENDL-1
222.1	0				(66)	WGO= 3.0 ± 2.8	71CODDING+
220.3 ± 1.0	0				(67)	COM= AREA-AN	73KIROUAC+
230.3	0	3.5		100 ± 27	(66.5)		JENDL-2
230.3	0	3.5	163.0	100.0	63.0	COM= KIROUAC	JENDL-1
231.7	0				(66)	WGO= 2.5 ± 1.2	71CODDING+
230.3 ± 1.0	0				(67)	COM= AREA-AN	73KIROUAC+
239.1	0	3.5		230 ± 60	(66.5)		JENDL-2
239.1	0	3.5	293.0	230.0	63.0	COM= KIROUAC	JENDL-1
241.2	0				(66)	WGO= 12.0 ± 6.0	71CODDING+
239.1 ± 1.0	0				(67)	COM= AREA-AN	73KIROUAC+
247.9	0	3.5		38 ± 17	(66.5)		JENDL-2
247.9	0	3.5	101.0	38.0	63.0	WGO= 2.4 ± 1.1	JENDL-1
247.9 ± 1.0	0				(67)	COM= AREA-AN	73KIROUAC+
275.3	0	3.5		141 ± 42	(66.5)		JENDL-2
275.3	0	3.5	204.0	141.0	63.0	WGO= 8.5 ± 2.5	JENDL-1
275.3 ± 1.2	0				(67)	COM= AREA-AN	73KIROUAC+
284.0	0	3.5		163 ± 46	(66.5)		JENDL-2
284.0	0	3.5	226.0	163.0	63.0	WGO= 9.7 ± 2.7	JENDL-1
284.0 ± 1.2	0				(67)	COM= AREA-AN	73KIROUAC+
297.0	0	3.5		59 ± 19	(66.5)		JENDL-2
297.0	0	3.5	122.0	59.0	63.0	WGO= 3.4 ± 1.1	JENDL-1
297.0 ± 1.5	0				(67)	COM= AREA-AN	73KIROUAC+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
316.5	0	3.5		125 ±32	(86.5)		JENDL-2
316.5	0	3.5	188.0	125.0	63.0		JENDL-1
316.5 ± 1.5	0				(67)	WGD= 7.0 ± 1.8 COM= AREA-RN	7SKIROUAC+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
-2.2 -2.0	0	3.5		2.1 4.0	68 (66.0)	COM= M-L-B-W	JENDL-2 74EILAND+
-0.6 -0.6	0	3.5	69.11	0.11	63.0 63	WGO= 0.14	JENDL-1 71CODDING+A
3.396 3.42 3.4 3.42 ± 0.02 3.4 3.39	0 0 0	3.0 3.0 3.0	67.314	1.35 ± 0.02 1.314	67 ± 3 66.0 (65.0)	WGO= 0.59 ± 0.03 GA = 0.002 WGO= 0.851 COM= SHAPE-ANAL	JENDL-2 JENDL-1 57SIMPSON+ 52CARPENTER 53PATIENDEN 70KVITEK+ 71CAUVIN+ 71CODDING+B
3.4 3.4 3.417 3.396		3.0 3.0		1.168 ± 0.03 1.18 ± 0.02	67.0 ± 8.0 67 ± 3		71KARZHAYINA+ 72KARZHAYINA+ 74EILAND+ 81MIZUMOTO
18.32 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 ± 0.1 18.3 18.41 18.32	0 0	4.0 4.0	148.22	71.9 ± 0.4 70.22 71.4 ± 7.2	72 ± 4 76.0 41.0 ± 17.0	GNO= 16.8 ± 2.3 GA = 0.00028 WGO= 17.1 WGO= 17.9 COM= SHAPE-ANAL WGO= 14.5 ± 1.6	JENDL-2 JENDL-1 57SIMPSON+ 52CARPENTER 70KVITEK+ 71CAUVIN+ 71CODDING+A 71CODDING+B
18.3 ± 0.1 18.3 18.41 18.32		4.0 4.0	145.0 ± 16.0	62.0 ± 7.0 79.6 ± 0.3 80.9 ± 0.4			71KARZHAYINA+ 72KARZHAYINA+ 74EILAND+ 81MIZUMOTO
27.16 27.7 27.0 27.1 27.0 27.1 27.3 27.3	0 0	3.0 3.0	73.86	5.95 ± 0.13 6.86 4.8 ± 0.4	(69 ± 2) 67.0 46.0 ± 45.0	GNO= 0.92 ± 0.07 GA = 0.00032 WGO= 1.06 WGO= 1.6 COM= SHAPE-ANAL WGO= 0.81 ± 0.08	JENDL-2 JENDL-1 57SIMPSON+ 52CARPENTER 70KVITEK+ 71CAUVIN+ 71CODDING+A 71CODDING+B
27.1 ± 0.1 27.1 27.28 27.16		3.0 3.0		4.2 ± 0.2 6.26 ± 0.24 6.08 ± 0.11	(65) (65.0) (69 ± 2)		71KARZHAYINA+ 72KARZHAYINA+ 74EILAND+ 81MIZUMOTO
29.74 29.9 29.7 29.8 29.8 29.8 29.9	0 0	3.0 3.0	66.33	14.7 ± 0.2 5.33 14.4 ± 1.0	71 ± 6 61.0 (49.0)	GNO= 2.64 ± 0.18 GA = 0.00013 WGO= 1.89 WGO= 2.39 COM= SHAPE-ANAL WGO= 2.6 ± 0.4	JENDL-2 JENDL-1 57SIMPSON+ 52CARPENTER 70KVITEK+ 71CAUVIN+ 71CODDING+A 71CODDING+B
29.7 ± 0.1 29.7 29.88 29.74		3.0 3.0	75.0 ± 16.0	14.0 ± 2.0 12.5 ± 0.5 12.9 ± 0.2	(65) (65) 61.0 ± 16.0 (66.0) 71 ± 6		71KARZHAYINA+ 72KARZHAYINA+ 74EILAND+ 81MIZUMOTO
32.10 32.1 32.0 32.1 32.1 32.2 32.2	0 0	4.0 4.0	117.1	38.0 ± 0.5 39.1 28.4 ± 2.8	62 ± 10 78.0 55.0 ± 15.0	GNO= 3.02 ± 0.3 GA = 3.08 - 4 WGO= 7.16 WGO= 7.91 COM= SHAPE-ANAL WGO= 6.2 ± 1.2	JENDL-2 JENDL-1 57SIMPSON+ 52CARPENTER 70KVITEK+ 71CAUVIN+ 71CODDING+A 71CODDING+B
32.1 ± 0.1 32.1 32.25 32.10		4.0 4.0	113.0 ± 25.0	35.0 ± 7.0 44.6 ± 1.2 43.9 ± 0.6	(65) 67 (66.0) 62 ± 10		71KARZHAYINA+ 72KARZHAYINA+ 74EILAND+ 81MIZUMOTO
39.64 39.7 39.6 39.9 39.9 39.8 39.7 ± 0.1 39.7 39.96 39.64	0 0	4.0 4.0	140.4	71.3 ± 1.0 73.4 104.0 ± 12.0	60 ± 12 67.0 (49.0)	GNO= 16.6 ± 1.7 GA = 0.00017 WGO= 16.7 WGO= 12.7 ± 1.7	JENDL-2 JENDL-1 57SIMPSON+ 70KVITEK+ 71CAUVIN+ 71CODDING+A 71KARZHAYINA+ 72KARZHAYINA+ 74EILAND+ 81MIZUMOTO
39.7 ± 0.1 39.7 39.96 39.64		4.0 4.0		80.0 ± 11.0 82.6 ± 1.8 80.2 ± 1.1	(65) (66.0) 60 ± 12		
40.71 40.6 40.6 40.8 40.6 ± 0.1 40.6 41.04 40.71	0 1	3.0 3.0	72.03	5.4 ± 0.2 5.03	(69 ± 2) 67.0	WGO= 0.38	JENDL-2 JENDL-1 70KVITEK+ 71CAUVIN+ 71KARZHAYINA+ 72KARZHAYINA+ 74EILAND+ 81MIZUMOTO
40.6 ± 0.1 40.6 41.04 40.71		3.0 3.0		2.4 4.4 ± 0.2 4.7 ± 0.2	(66.0) (69 ± 2)		
49.34 49.3 49.4 49.7 49.7 49.5 49.5	0 0	4.0 4.0	82.1	14.7 ± 0.3 15.1 20.6 ± 1.4	(69 ± 2) 67.0 (49.0)	GNO= 2.94 ± 0.41 GA = 0.00048 WGO= 2.24 WGO= 2.25 COM= SHAPE-ANAL WGO= 2.4 ± 0.4	JENDL-2 JENDL-1 57SIMPSON+ 70KVITEK+ 71CAUVIN+ 71CODDING+A 71CODDING+B
49.3 ± 0.2 49.3 49.71 49.34		4.0 4.0	66.0 ± 17.0	17.0 ± 3.0 17.0 ± 0.6 16.5 ± 0.3	49.0 ± 17.0 (66.0) (69 ± 2)		71KARZHAYINA+ 72KARZHAYINA+ 74EILAND+ 81MIZUMOTO

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
50.8		3.0					71CAUVIN+
56.04	0	3.0		41.0 ± 0.7	(69 ± 2)		JENDL-2
57.9	0	3.0	84.0	43.0	41.0		JENDL-1
58.0				^R 30.8 ± 5.2	(49.0)	GNO= 4.04 ± 0.69	575IMPSON+
58.0		3.0				GA = 1.67 -4	70KVITEK+
58.3					(65)	WGO= 5.45	71CODDING+A
58.3					(65)	WGO= 6.35	71CODDING+B
57.9 ± 0.2		3.0	85.0 ± 7.0	^R 44.0 ± 5.0	41.0 ± 9.0	COM= SHAPE-ANAL	71KARZHAVINA+
57.9		3.0				WGO= 5.8 ± 0.7	72KARZHAVINA+
58.3				^R 37.5 ± 0.8	(66.0)		74EILAND+
58.04				^R 35.9 ± 0.5	(69 ± 2)		81MIZUMOTO
64.96	0	4.0		6.6 ± 0.4	(69 ± 2)		JENDL-2
65.2	1	4.0	72.33	5.33	67.0		JENDL-1
64.9		3.0					70KVITEK+
67.1		4.0					71CAUVIN+
64.9 ± 0.2		4.0		^R 14.0 ± 2.0		WGO= 1.7 ± 0.3	71KARZHAVINA+
64.9		4.0					72KARZHAVINA+
65.2		4.0		^R 6.0 ± 1.2	(66.0)		74EILAND+
64.96				^R 7.4 ± 0.4	(69 ± 2)		81MIZUMOTO
65.13	0	3.0		5.5 ± 0.3	(69 ± 2)		JENDL-2
65.4	1	3.5	71.0	4.0	67.0		JENDL-1
65.4				^R 4.0 ± 0.8	(66.0)		74EILAND+
65.13				^R 4.8 ± 0.3	(69 ± 2)		81MIZUMOTO
74.7		3.0					71CAUVIN+
76.12	0	4.0		17.5 ± 0.5	(69 ± 2)		JENDL-2
76.4	0	4.0	81.5	14.5	67.0		JENDL-1
76.1				^R 45.6 ± 17.8	(49.0)	GNO= 5.34 ± 2.03	575IMPSON+
76.0		4.0			(65)	GA = 0.00028	70KVITEK+
76.4		4.0				WGO= 2.0	71CODDING+A
76.0 ± 0.2		4.0	82.0 ± 9.0	^R 23.0 ± 4.0	39.0 ± 10.0	WGO= 2.5 ± 0.5	71KARZHAVINA+
76.0		4.0					72KARZHAVINA+
76.43				^R 18.32 ± 0.64	(66.0)		74EILAND+
76.12				^R 19.7 ± 0.6	(69 ± 2)		81MIZUMOTO
79.88	0	4.0		3.7 ± 0.3	(69 ± 2)		JENDL-2
80.0	1	4.0	69.49	2.49	67.0		JENDL-1
79.4				^R 14.0 ± 14.0	(49.0)	GNO= 1.6 ± 1.6	575IMPSON+
79.8		4.0			(65)	WGO= 0.3	70KVITEK+
79.4		4.0				WGO= 0.31 ± 0.03	71CAUVIN+
80.1							71CODDING+A
79.8 ± 0.2		4.0		^R 2.8 ± 0.3			71KARZHAVINA+
79.8		4.0					72KARZHAVINA+
80.23				^R 3.5 ± 0.4	(66.0)		74EILAND+
79.86				^R 4.2 ± 0.3	(69 ± 2)		81MIZUMOTO
83.55	0	3.0		75.2 ± 1.7	(69 ± 2)		JENDL-2
83.0	0	3.0	142.7	75.7	67.0		JENDL-1
83.5				^R 108.0 ± 12.0	(49.0)	GNO= 1.18 ± 0.13	575IMPSON+
83.5		3.0				GA = 0.00177	70KVITEK+
83.5		3.0					71CAUVIN+
83.9					(65)	WGO= 6.0	71CODDING+A
83.4 ± 0.2		3.0	95.0 ± 7.0	^R 60.0 ± 6.0	35.0 ± 9.0	WGO= 6.6 ± 0.7	71KARZHAVINA+
83.4		3.0					72KARZHAVINA+
83.89				^R 66.2 ± 3.0	(66.0)		74EILAND+
83.55				^R 65.8 ± 1.5	(69 ± 2)		81MIZUMOTO
94.90	0	3.5		5.6 ± 0.4	(69 ± 2)		JENDL-2
94.9	1	3.5	84.0	17.0	67.0		JENDL-1
94.9				^R 326.0 ± 164.0	(49.0)	GNO= 33.0 ± 17.0	575IMPSON+
94.9 ± 0.3				^R 17.0 ± 4.0		WGO= 1.7 ± 0.4	71KARZHAVINA+
94.90				^R 5.5 ± 0.4	(69 ± 2)		81MIZUMOTO
99.43	0	4.0		234	(69 ± 2)		JENDL-2
99.5	0	4.0	282.1	215.1	67.0		JENDL-1
99.3				^R 158.0 ± 80.0	(49.0)	GNO= 16.0 ± 8.0	575IMPSON+
100.0		4.0			(65)	GA = 0.00084	70KVITEK+
99.8						WGO= 24.0	71CODDING+A
99.5 ± 0.3		3.0		^R 290.0 ± 44.0		WGO= 29.0 ± 5.0	71KARZHAVINA+
99.5		4.0					72KARZHAVINA+
99.88				^R 242.0 ± 12.0	(66.0)		74EILAND+
99.43				^R 263 ± 4	(69 ± 2)		81MIZUMOTO
102.6	0	3.0		198.4 ± 3.5	(69 ± 2)		JENDL-2
103.1	0	3.0	256.7	189.7	67.0		JENDL-1
102.6		3.0					70KVITEK+
104.7		3.0					71CAUVIN+
103.1					(65)	WGO= 10.0	71CODDING+A
102.6 ± 0.3		3.0		^R 145.0 ± 20.0		WGO= 14.0 ± 2.0	71KARZHAVINA+
102.6		3.0					72KARZHAVINA+
103.07				^R 166.0 ± 10.0	(66.0)		74EILAND+
102.6				^R 173.6 ± 3.1	(69 ± 2)		81MIZUMOTO
104.7 ± 0.3					20.0 ± 4.0		71KARZHAVINA+
106.9	0	4.0		44.2 ± 1.4	(69 ± 2)		JENDL-2
107.2	0	4.0	106.1	39.1	67.0		JENDL-1
106.8		4.0					70KVITEK+
107.1		4.0			(65)	WGO= 4.0	71CAUVIN+
107.4						WGO= 3.0 ± 0.6	71CODDING+A
106.8 ± 0.3		4.0		^R 31.0 ± 6.0			71KARZHAVINA+
106.8		4.0					72KARZHAVINA+
107.36				^R 45.2 ± 1.4	(66.0)		74EILAND+
106.9				^R 49.7 ± 1.6	(69 ± 2)		81MIZUMOTO
108.6	0	4.0		0.9 ± 0.4	(69 ± 2)		JENDL-2
109.2		3.0					71CAUVIN+
108.4 ± 0.3				^R 0.8		WGO= 0.08	71KARZHAVINA+
108.4		4.0					72KARZHAVINA+
108.6				^R 1.0 ± 0.4	(69 ± 2)		81MIZUMOTO
115.3		3.0					71CAUVIN+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
123.6 123.9 123.4 125.4 124.6 123.4 ± 0.3 123.4 124.18 123.6	0 0	3.0 3.0 3.0 3.0 3.0 3.0	252.1	173.1 ± 3.8 185.1	(69 ± 2) 67.0 (65)	WGO= 15.0 WGO= 12.2 ± 0.9	JENDL-2 JENDL-1 70KVITEK+ 71CAUVIN+ 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
134.3		3.0					71CAUVIN+
140.0 140.5 140.0 140.2 140.1 140.0 ± 0.4 140.0 140.54 140.0	0 0	4.0 4.0 3.0 3.0 3.0 4.0	135.4	69.1 ± 1.9 68.4 77.0 ± 8.0 76.8 ± 2.2 77.7 ± 2.1	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 64.0 WGO= 6.5 ± 0.7	JENDL-2 JENDL-1 70KVITEK+ 71CAUVIN+ 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
143.1 143.6 145.1 143.3 ± 0.4 143.3 143.93 143.1	0 1	4.0 4.0 4.0	68.78	3.2 ± 0.4 1.78 2.0 ± 0.2 2.6 ± 0.8 3.6 ± 0.5	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 3.0 ± 1.1 WGO= 0.17 ± 0.02	JENDL-2 JENDL-1 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
151.5 151.7 151.3 151.7 152.2 151.3 ± 0.4 151.3 152.16 151.5	0 0	3.0 3.0 3.0 3.0 3.0	227.0	165 ± 5 160.0 134.0 ± 14.0 142.0 ± 5.0 144 ± 4	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 8.0 WGO= 11.0 ± 1.0	JENDL-2 JENDL-1 70KVITEK+ 71CAUVIN+ 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
160.8 161.0 161.4 160.8 ± 0.5 160.8 161.54 160.8	0 0	4.0 4.0 4.0	112.3	42.3 ± 1.9 45.3 80.0 ± 10.0 48.8 ± 3.0 47.6 ± 2.1	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 4.5 WGO= 7.1 ± 0.8	JENDL-2 JENDL-1 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
161.6 162.4 162.41 161.6	0 1	3.0 3.5	79.0	17.8 ± 1.4 12.0 12.0 ± 2.0 15.6 ± 1.2	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
163.6 163.8 163.6 163.8 164.5 163.6 ± 0.5 163.6 164.32 163.6	0 0	4.0 4.0 4.0 4.0	145.2	156 ± 4 78.2 88.0 ± 10.0 148.0 ± 4.0 175 ± 4	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 7.0 WGO= 6.9 ± 0.8	JENDL-2 JENDL-1 70KVITEK+ 71CAUVIN+ 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
168.0		3.0					71CAUVIN+
171.7 172.0 171.7 171.8 171.7 ± 0.5 171.7 172.53 171.7	0 1	4.0 4.0 4.0 4.0	79.4	16.4 ± 1.0 12.4 12.0 ± 2.0 14.2 ± 1.0 16.5 ± 1.1	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 0.92 ± 0.15	JENDL-2 JENDL-1 70KVITEK+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
179.5 180.0 178.1 179.7 ± 0.5 179.7 180.35 179.5	0 1	3.0 3.0 3.0	70.77	10.3 ± 1.0 3.77 3.0 ± 0.3 10.4 ± 1.0 9.0 ± 0.9	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 0.22 ± 0.02	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
184.1 185.0 183.0 185.0 185.3 183.7 ± 0.5 183.7 184.77 184.1	0 0	3.0 3.0 3.0 3.0	441.9	407 ± 7 374.9 420.0 ± 40.0 312.0 ± 8.0 356 ± 6	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	GA = 0.0027 WGO= 15.0 WGO= 31.0 ± 3.0	JENDL-2 JENDL-1 70KVITEK+ 71CAUVIN+ 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
191.0 191.3 190.8 ± 0.5 190.8 191.76 191.0	0 1	3.0 3.0 3.0	79.3	36.0 ± 1.8 12.3 9.4 ± 1.4 28.6 ± 2.0 31.5 ± 1.6	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 0.68 ± 0.2	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
193.5 193.5 193.5 ± 0.5 193.5 193.5	0 1	4.0 4.0	69.31	5.0 ± 0.9 2.31 2.6 ± 0.6 5.6 ± 1.0	(69 ± 2) 67.0 (65) (69 ± 2)	WGO= 0.19 ± 0.04	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
198.0	0	3.0		15.7 ± 1.4	(69 ± 2)		JENDL-2

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
198.3 198.0 ± 0.5 198.0 198.86 198.0	1	3.0	76.6	9.6 8.4 ± 0.9 11.0 ± 1.4 13.7 ± 1.2	67.0 (66.0) (69 ± 2)	WGO= 0.6 ± 0.06	JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
206.0 206.0 205.8 208.9 205.8 ± 0.6 205.8 206.84 206.0	0 0	4.0 4.0 4.0	244.8	184 ± 4 177.8 184.0 ± 22.0 210.0 ± 6.0 207 ± 5	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 20.0 WGO= 12.8 ± 1.5	JENDL-2 JENDL-1 70KVI TEK+ 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
221.5 221.8 222.1 221.6 ± 0.6 221.6 222.6 221.5	0 0	3.0 3.0	198.4	135 ± 5 131.4 110.0 ± 16.0 114.8 ± 3.4 118 ± 4	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 4.5 WGO= 7.4 ± 1.1	JENDL-2 JENDL-1 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
225.2 226.0 224.0 225.3 ± 0.6 225.3 226.3 225.2	0 0	3.0 3.0	284.1	256 ± 7 217.1 140.0 ± 16.0 208.0 ± 6.0 224 ± 6	(69 ± 2) 67.0 (65) (66.0) (69 ± 2)	WGO= 7.0 WGO= 9.3 ± 1.1	JENDL-2 JENDL-1 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
227.9 227.9	0	4.0		2.6 ± 1.2 2.9 ± 1.3	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
228.7 229.0 228.6 ± 0.6 228.6 229.4 228.7	0 1	3.0 3.0	69.86	1.9 ± 0.5 2.86 2.5 ± 0.4 1.2 ± 1.2 1.7 ± 0.4	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 0.17 ± 0.03	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
240.7 240.9 240.6 ± 0.6 240.6 241.2 240.7	0 1	4.0 4.0	75.89	17.0 ± 1.6 8.89 13.0 ± 2.0 8.8 ± 2.0 19.1 ± 1.8	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 0.84 ± 0.13	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
241.8 241.8	1	3.5	81.2	14.2 14.2 ± 2.0	67.0 (66.0)		JENDL-1 74EILAND+
247.5 248.3 249.0 247.7 ± 0.7 247.7 248.7 247.5	0 0	4.0 4.0	195.9	145 ± 5 128.9 120.0 ± 14.0 155.0 ± 5.0 163 ± 6	(69 ± 2) 67.0 (66) (66.0) (69 ± 2)	WGO= 10.0 WGO= 7.6 ± 0.9	JENDL-2 JENDL-1 71CODDING+A 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
257.0 257.5 256.5 ± 0.7 256.5 258.2 257.0	0 0	4.0 4.0	147.0	73 ± 4 80.0 135.0 ± 16.0 86.0 ± 4.0 82 ± 4	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 8.4 ± 1.0	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
263.4 264.3 263.5 ± 0.8 263.5 264.7 263.4	0 1	3.0 3.0	144.7	74 ± 5 77.7 55.0 68.0 ± 3.0 65 ± 4	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 3.4	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
266.1 267.3 265.8 ± 0.8 265.8 267.3 266.1	0 0	4.0 4.0	237.7	181 ± 6 170.7 112.0 192.0 ± 6.0 204 ± 7	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 6.9	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
270.6 271.8 271.0 ± 0.8 271.0 271.8 270.6	0 1	3.0 3.0	160.7	87 ± 5 93.7 36.0 82.0 ± 4.0 76 ± 4	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 2.2	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
274.3 275.1 274.4 ± 0.8 274.4 275.4 274.3	0 1	3.0 3.0	83.0	21.8 ± 2.6 16.0 9.0 ± 3.0 16.0 ± 2.0 19.1 ± 2.3	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 0.54 ± 0.18	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
283.2 284.1 283.3 ± 0.8 283.3 284.6 283.2	0 1	4.0 4.0	86.6	20.3 ± 2.2 19.6 28.0 ± 5.0 20.0 ± 2.0 22.8 ± 2.5	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 1.7 ± 0.3	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
290.0 291.0 289.4 ± 0.9 289.4 291.4	0 1	4.0 3.5	107.0	36.7 ± 2.9 40.0 25.0 40.0 ± 3.0	(69 ± 2) 67.0 (66.0)	WGO= 1.5	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	ORAMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
290.0				^a 41.3 ± 3.3	(69 ± 2)		81MIZUMOTO
290.5 ± 0.9				^a 25.0		WGO= 1.5	71KARZHAVINA+
308.1 308.0 308.0 ± 0.9 308.0 308.1	0 1	3.0 3.0 3.0	72.71	9.5 ± 2.3 5.71 ^a 5.0 ± 1.2 ^a 8.3 ± 2.0	(69 ± 2) 67.0 (69 ± 2)	WGO= 0.28 ± 0.07	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
311.9 312.0 312.0 ± 0.9 312.0 313.2 311.9	0 1	4.0 4.0 4.0	77.7	24.5 ± 2.3 10.7 ^a 12.0 ± 4.0 ^a 20.0 ± 2.0 ^a 27.6 ± 2.6	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 0.7 ± 0.2	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
321.0 321.0 321.0 ± 1.0 321.0	0 1	3.0 3.0 3.0	75.0	13.0 ± 1.3 8.0 ^a 7.0 ± 2.0 ^a 11.4 ± 1.1	(69 ± 2) 67.0 (69 ± 2)	WGO= 0.4 ± 0.1	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
329.9 331.5 330.0 ± 1.0 330.0 331.5 329.9	0 1	3.0 3.0 3.0	147.0	77 ± 5 80.0 ^a 160.0 ± 25.0 ^a 70.0 ± 4.0 ^a 67 ± 4	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 8.8 ± 1.4	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
332.0 336.6 332.0 ± 1.0 332.0 333.6 332.0	0 1	4.0 4.0 4.0	125.7	65 ± 4 58.7 ^a 160.0 ± 25.0 ^a 66.0 ± 4.0 ^a 73 ± 4	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 8.8 ± 1.4	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
340.1 341.4 340.0 ± 1.0 340.0 341.9 340.1	0 1	4.0 4.0 4.0	134.6	158 ± 6 87.6 ^a 76.0 ± 12.0 ^a 182.0 ± 6.0 ^a 178 ± 7	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 4.1 ± 0.6	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
349.7 351.0 350.0 ± 1.0 350.0 351.2 349.7	0 1	3.0 3.0 3.0	126.4	78 ± 5 59.4 ^a 57.0 ± 8.0 ^a 52.0 ± 6.0 ^a 68 ± 4	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 3.0 ± 0.4	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
359.2 360.4 359.0 ± 1.0 359.0 360.9 359.2	0 0	4.0 4.0 4.0	333.7	357 ± 11 266.7 ^a 270.0 ± 30.0 ^a 360.0 ± 60.0 ^a 402 ± 12	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 14.2 ± 1.6	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
361.8 363.0 362.0 363.4 361.8	0 1	3.0 3.0 3.0	81.0	35 ± 5 24.0 ^a 30.0 ± 10.0 ^a 31 ± 4	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
379.0 380.4 379.0 ± 1.2 379.0 380.8 379.0	0 0	3.0 3.0 3.0	524.1	449 ± 14 457.1 ^a 350.0 ± 80.0 ^a 400.0 ± 20.0 ^a 393 ± 12	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 18.0 ± 4.0	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
381.9 383.6 382.0 ± 1.2 382.0 383.6 381.9	0 1	3.0 3.0 3.0	195.0	159 ± 9 128.0 ^a 12.0 ^a 112.0 ± 10.0 ^a 139 ± 8	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 0.61	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
390.5 392.4 391.0 ± 1.3 391.0 392.4 390.5	0 1	4.0 4.0 4.0	173.7	108 ± 6 106.7 ^a 102.0 ± 22.0 ^a 120.0 ± 10.0 ^a 122 ± 7	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 5.3 ± 1.1	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
396.4 398.5 398.0 ± 1.3 398.0 398.5 396.4	0 1	4.0 4.0 4.0	143.4	60 ± 4 76.4 ^a 110.0 ^a 86.0 ± 10.0 ^a 67 ± 5	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 5.5	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
399.5 400.5 399.0 ± 1.3 399.0 400.5 398.5	0 1	3.0 3.0 3.0	169.9	125 ± 8 102.9 ^a 110.0 ^a 90.0 ± 10.0 ^a 109 ± 7	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 5.5	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
404.7 406.5 406.0 ± 1.4 406.0 406.5 404.7	0 1	3.0 3.0 3.0	99.0	39 ± 5 32.0 ^a 17.0 ± 6.0 ^a 32.0 ± 6.0 ^a 34 ± 4	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 0.84 ± 0.3	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
411.6	0	4.0		49 ± 4	(69 ± 2)		JENDL-2

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
413.8 412.0 ± 1.4 412.0 413.8 411.6	1	4.0	113.2	46.2 R 44.0 ± 8.0 R 58.0 ± 8.0 R 55 ± 5	67.0 (66.0) (69 ± 2)	WGO= 2.2 ± 0.4	JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74EILAND+ 81MIZUMOTO
417.9 420.0 419.0 ± 1.5 420.0 417.9	0 0	3.5 3.5	267.0	235 ± 12 R 200.0 R 94.0 ± 30.0 R 244.0 ± 30.0 R 235 ± 12	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 4.6 ± 1.5	JENDL-2 JENDL-1 71KARZHAVINA+ 74EILAND+ 81MIZUMOTO
421.5 423.7 423.0 ± 1.5 423.7 421.5	0 1	3.5 3.5	117.0	69 ± 5 R 50.0 R 29.0 ± 9.0 R 68.0 ± 16.0 R 68 ± 5	(69 ± 2) 67.0 (66.0) (69 ± 2)	WGO= 1.4 ± 0.4	JENDL-2 JENDL-1 71KARZHAVINA+ 74EILAND+ 81MIZUMOTO
433.1 433.1	0	3.5		R 17 ± 4 R 17 ± 4	(69 ± 2) (68 ± 2)		JENDL-2 81MIZUMOTO
435.6 437.8 437.8 435.6	0 1	3.5 3.5	247.0	154 ± 9 R 180.0 R 180.0 ± 30.0 R 154 ± 9	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
439.5 441.7 441.7 439.5	0 1	3.5 3.5	103.0	40 ± 5 R 36.0 R 38.0 ± 10.0 R 40 ± 5	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
446.4 446.4	0	3.5		R 7 ± 3 R 7 ± 3	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
458.4 460.7 460.7 458.4	0 1	3.5 3.5	185.0	100 ± 7 R 118.0 R 118.0 ± 20.0 R 100 ± 7	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
462.6 464.8 464.8 462.6	0 1	3.5 3.5	129.0	53 ± 6 R 62.0 R 62.0 ± 16.0 R 53 ± 6	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
475.7 478.1 478.1 475.7	0 1	3.5 3.5	203.0	117 ± 8 R 136.0 R 136.0 ± 20.0 R 117 ± 8	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
479.5 481.8 481.8 479.5	0 1	3.5 3.5	253.0	177 ± 11 R 186.0 R 186.0 ± 20.0 R 177 ± 11	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
486.2 488.9 488.9 486.2	0 1	3.5 3.5	181.0	111 ± 8 R 114.0 R 114.0 ± 16.0 R 111 ± 8	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
495.9 498.5 498.5 495.9	0 1	3.5 3.5	197.0	120 ± 9 R 130.0 R 130.0 ± 30.0 R 120 ± 9	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
498.7 501.7 501.7 498.7	0 0	3.5 3.5	311.0	294 ± 15 R 244.0 R 244.0 ± 40.0 R 294 ± 15	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
513.4 516.0 516.0 513.4	0 0	3.5 3.5	507.0	474 ± 20 R 440.0 R 440.0 ± 40.0 R 474 ± 20	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
528.7 532.0 532.0 528.7	0 1	3.5 3.5	155.0	72 ± 7 R 98.0 R 98.0 ± 20.0 R 72 ± 7	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
532.4 535.0 535.0 532.4	0 1	3.5 3.5	151.0	60 ± 7 R 84.0 R 84.0 ± 40.0 R 60 ± 7	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
537.9 541.0 541.0 537.9	0 0	3.5 3.5	588.0	575 ± 22 R 521.0 R 520.0 ± 80.0 R 575 ± 22	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
545.6 549.0 549.0 545.6	0 1	3.5 3.5	291.0	185 ± 12 R 224.0 R 224.0 ± 40.0 R 185 ± 12	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
552.6 556.0 556.0 552.6	0 0	3.5 3.5	767.0	367 ± 26 R 700.0 R 700.0 ± 100.0 R 367 ± 26	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
554.4 554.4	0	3.5		R 248 ± 20 R 248 ± 20	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
559.5 562.0 562.0 559.5	0 1	3.5 3.5	267.0	207 ± 14 R 200.0 R 200.0 ± 40.0 R 207 ± 14	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
563.4 567.0 567.0 563.4	0 1	3.5 3.5	277.0	219 ±15 210.0 210.0 ±40.0 219 ±15	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
567.6 570.0 570.0 567.6	0 1	3.5 3.5	99.0	38 ± 7 32.0 32.0 ±20.0 38 ± 7	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
574.0 577.0 577.0 574.0	0 1	3.5 3.5	199.0	101 ± 9 132.0 132.0 ±30.0 101 ± 9	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
580.0 583.0 583.0 580.0	0 1	3.5 3.5	221.0	124 ±11 154.0 154.0 ±30.0 124 ±11	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
587.6 591.0 591.0 587.6	0 1	3.5 3.5	153.0	83 ± 9 86.0 86.0 ±30.0 83 ± 9	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
597.0 600.0 600.0 597.0	0 1	3.5 3.5	237.0	176 ±13 170.0 170.0 ±40.0 176 ±13	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
605.7 609.0 609.0 605.7	0 1	3.5 3.5	236.0	126 ±11 169.0 164.0 ±40.0 126 ±11	(69 ± 2) 67.0 (65.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
612.6 617.0 617.0 612.6	0 1	3.5 3.5	191.0	93 ±10 124.0 124.0 ±50.0 93 ±10	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
617.2 621.0 621.0 617.2	0 0	3.5 3.5	527.0	493 ±25 460.0 460.0 ±100.0 493 ±25	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
622.6 626.0 626.0 622.6	0 1	3.5 3.5	251.0	151 ±13 184.0 184.0 ±40.0 151 ±13	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
625.3 625.3	0	3.5		74 ±10 74 ±10	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
633.9 636.0 636.0 633.9	0 1	3.5 3.5	113.0	29 ± 8 46.0 46.0 ±20.0 29 ± 8	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
644.7 648.0 648.0 644.7	0 1	3.5 3.5	171.0	60 ± 9 104.0 104.0 ±40.0 60 ± 9	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
648.5 653.0 653.0 648.5	0 1	3.5 3.5	291.0	209 ±15 224.0 224.0 ±80.0 209 ±15	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
651.9 656.0 656.0 651.9	0 1	3.5 3.5	143.0	102 ±11 76.0 76.0 ±40.0 102 ±11	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
659.2 663.0 663.0 659.2	0 1	3.5 3.5	143.0	80 ±10 76.0 76.0 ±40.0 80 ±10	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
668.8 673.0 673.0 668.8	0 1	3.5 3.5	141.0	65 ±10 74.0 74.0 ±40.0 65 ±10	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
677.5 682.0 682.0 677.5	0 1	3.5 3.5	245.0	159 ±14 178.0 178.0 ±60.0 159 ±14	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
683.1 687.0 687.0 683.1	0 1	3.5 3.6	291.0	236 ±18 224.0 224.0 ±80.0 236 ±18	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
687.4 692.0 692.0 687.4	0 1	3.5 3.5	119.0	19 ± 9 52.0 52.0 ±40.0 19 ± 9	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
696.8 701.0 701.0 696.8	0 1	3.5 3.5	161.0	87 ±12 94.0 94.0 ±40.0 87 ±12	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
702 702	0	3.5		50 ±10 50 ±10	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
713	0	3.5		193 ±18	(69 ± 2)		JENDL-2

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
718.0 718.0 713	1	3.5	231.0	164.0 R 164.0 ±60.0 R 193 ±18	67.0 (66.0) (69 ± 2)		JENDL-1 74EILAND+ 81MIZUMOTO
724 722.0 728.0 724	0 1	3.5 3.5	169.0	42 ±11 R 102.0 R 102.0 ±60.0 R 42 ±11	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
729 733.0 733.0 729	0 1	3.5 3.5	391.0	266 ±21 R 324.0 R 324.0 ±100.0 R 266 ±21	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
734 738.0 738.0 734	0 1	3.5 3.5	433.0	448 ±29 R 368.0 R 366.0 ±100.0 R 448 ±29	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
744 748.0 749.0 744	0 1	3.5 3.5	191.0	64 ±12 R 124.0 R 124.0 ±60.0 R 64 ±12	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
754 757.0 757.0 754	0 1	3.5 3.5	381.0	223 ±20 R 314.0 R 314.0 ±100.0 R 223 ±20	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
758 763.0 763.0 758	0 1	3.5 3.5	435.0	337 ±26 R 368.0 R 368.0 ±120.0 R 337 ±26	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
765 769.0 769.0 765	0 0	3.5 3.5	937.0	1060 ±40 R 870.0 R 870.0 ±200.0 R 1060 ±40	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
796 800.0 800.0 796	0 1	3.5 3.5	211.0	125 ±17 R 144.0 R 144.0 ±60.0 R 125 ±17	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
807 812.0 812.0 807	0 0	3.5 3.5	647.0	446 ±31 R 580.0 R 580.0 ±160.0 R 446 ±31	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
821 825.0 825.0 821	0 0	3.5 3.5	507.0	373 ±29 R 440.0 R 440.0 ±120.0 R 373 ±29	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
835 840.0 840.0 835	0 1	3.5 3.5	277.0	162 ±20 R 210.0 R 210.0 ±60.0 R 162 ±20	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
847 847	0	3.5		78 ±16 R 78 ±16	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
850 850	0	3.5		217 ±25 R 217 ±25	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
854 859.0 859.0 854	0 0	3.5 3.5	2267.0	950 ±60 R 2200.0 R 2200.0 ±400.0 R 950 ±60	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
858 858	0	3.5		223 ±31 R 223 ±31	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
864 864	0	3.5		70 ±16 R 70 ±16	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
875 880.0 880.0 875	0 0	3.5 3.5	747.0	590 ±40 R 680.0 R 680.0 ±160.0 R 590 ±40	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
880 880	0	3.5		14 ±14 R 14 ±14	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
896 901.0 901.0 896	0 0	3.5 3.5	897.0	740 ±50 R 830.0 R 830.0 ±160.0 R 740 ±50	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
911 911	0	3.5		36 ±17 R 36 ±17	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
922 928.0 928.0 922	0 1	3.5 3.5	417.0	180 ±25 R 350.0 R 350.0 ±160.0 R 180 ±25	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
930 936.0 936.0 930	0 0	3.5 3.5	767.0	530 ±50 R 700.0 R 700.0 ±300.0 R 530 ±50	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
935 940.0 940.0 935	0 0	3.5 3.5	1027.0	1140 ±70 R 960.0 R 960.0 ±400.0 R 1140 ±70	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
943 943.0 943.0 943	0 0	3.5 3.5	607.0	470 ±40 540.0 540.0 ±200.0 470 ±40	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
953 953	0	3.5		71 ±21 71 ±21	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
962 967.0 967.0 962	0 1	3.5 3.5	287.0	219 ±30 220.0 220.0 ±80.0 219 ±30	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
984 989.0 989.0 984	0 0	3.5 3.5	627.0	420 ±40 560.0 560.0 ±200.0 420 ±40	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
991 996.0 996.0 991	0 1	3.5 3.5	347.0	302 ±33 280.0 280.0 ±100.0 302 ±33	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1001 1001	0	3.5		77 ±23 77 ±23	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1009 1009	0	3.5		37 ±21 37 ±21	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1016 1016	0	3.5		113 ±26 113 ±26	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1025 1025	0	3.5		82 ±27 82 ±27	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1026 1034.0 1034.0 1026	0 0	3.5 3.5	897.0	390 ±50 930.0 930.0 ±300.0 390 ±50	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1039 1046.0 1046.0 1039	0 1	3.5 3.5	447.0	220 ±40 380.0 380.0 ±140.0 220 ±40	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1050 1058.0 1058.0 1050	0 0	3.5 3.5	807.0	580 ±50 740.0 740.0 ±200.0 580 ±50	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1056 1056	0	3.5		84 ±26 84 ±26	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1062 1069.0 1069.0 1062	0 0	3.5 3.5	847.0	720 ±60 780.0 780.0 ±200.0 720 ±60	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1070 1077.0 1077.0 1070	0 1	3.5 3.5	257.0	165 ±31 190.0 190.0 ±100.0 165 ±31	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1084 1090.0 1090.0 1084	0 0	3.5 3.5	947.0	710 ±60 880.0 880.0 ±200.0 710 ±60	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1102 1108.0 1109.0 1102	0 0	3.5 3.5	707.0	380 ±40 640.0 640.0 ±200.0 380 ±40	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1112 1120.0 1120.0 1112	0 0	3.5 3.5	1207.0	990 ±60 1140.0 1140.0 ±300.0 990 ±60	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1117 1117	0	3.5		142 ±28 142 ±28	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1128 1128	0	3.5		200 ±33 200 ±33	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1132 1137.0 1137.0 1132	0 0	3.5 3.5	737.0	480 ±50 670.0 670.0 ±300.0 480 ±50	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1139 1139	0	3.5		109 ±26 109 ±26	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1148 1148	0	3.5		111 ±28 111 ±28	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1153 1161.0 1161.0 1153	0 1	3.5 3.5	317.0	198 ±32 250.0 250.0 ±100.0 198 ±32	(69 ± 2) 67.0 (66.0) (69 ± 2)		JENDL-2 JENDL-1 74EILAND+ 81MIZUMOTO
1181 1181	0	3.5		420 ±40 420 ±40	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1187 1187	0	3.5		53 ±26 53 ±26	(69 ± 2) (69 ± 2)		JENDL-2 81MIZUMOTO
1196	0	3.5		350 ±40	(69 ± 2)		JENDL-2

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
1196				^a 360 ±40	(69 ± 2)		81MIZUMOTO
1207	0	3.5		^a 470 ±50	(69 ± 2)		JENDL-2
1207				^a 470 ±50	(69 ± 2)		81MIZUMOTO
1216	0	3.5		^a 410 ±50	(69 ± 2)		JENDL-2
1216				^a 410 ±50	(69 ± 2)		81MIZUMOTO
1228	0	3.5		^a 360 ±60	(69 ± 2)		JENDL-2
1228				^a 360 ±60	(69 ± 2)		81MIZUMOTO
1246	0	3.5		^a 330 ±40	(69 ± 2)		JENDL-2
1246				^a 330 ±40	(69 ± 2)		81MIZUMOTO
1267	0	3.5		^a 390 ±70	(69 ± 2)		JENDL-2
1267				^a 390 ±70	(69 ± 2)		81MIZUMOTO
1265	0	3.5		^a 111 ±32	(69 ± 2)		JENDL-2
1265				^a 111 ±32	(69 ± 2)		81MIZUMOTO
1279	0	3.5		^a 570 ±60	(69 ± 2)		JENDL-2
1279				^a 570 ±60	(69 ± 2)		81MIZUMOTO
1292	0	3.5		^a 140 ±40	(69 ± 2)		JENDL-2
1292				^a 140 ±40	(69 ± 2)		81MIZUMOTO
1298	0	3.5		^a 250 ±40	(69 ± 2)		JENDL-2
1298				^a 250 ±40	(69 ± 2)		81MIZUMOTO
1308	0	3.5		^a 100 ±40	(69 ± 2)		JENDL-2
1308				^a 100 ±40	(69 ± 2)		81MIZUMOTO
1318	0	3.5		^a 270 ±50	(69 ± 2)		JENDL-2
1318				^a 270 ±50	(69 ± 2)		81MIZUMOTO
1323	0	3.5		^a 490 ±60	(69 ± 2)		JENDL-2
1323				^a 490 ±60	(69 ± 2)		81MIZUMOTO
1332	0	3.5		^a 170 ±40	(69 ± 2)		JENDL-2
1332				^a 170 ±40	(69 ± 2)		81MIZUMOTO
1356	0	3.5		^a 120 ±40	(69 ± 2)		JENDL-2
1356				^a 120 ±40	(69 ± 2)		81MIZUMOTO
1365	0	3.5		^a 510 ±60	(69 ± 2)		JENDL-2
1365				^a 510 ±60	(69 ± 2)		81MIZUMOTO
1396	0	3.5		^a 580 ±70	(69 ± 2)		JENDL-2
1396				^a 580 ±70	(69 ± 2)		81MIZUMOTO
1404	0	3.5		^a 560 ±70	(69 ± 2)		JENDL-2
1404				^a 560 ±70	(69 ± 2)		81MIZUMOTO
1428	0	3.5		^a 360 ±90	(69 ± 2)		JENDL-2
1428				^a 360 ±90	(69 ± 2)		81MIZUMOTO
1449	0	3.5		^a 210 ±50	(69 ± 2)		JENDL-2
1449				^a 210 ±50	(69 ± 2)		81MIZUMOTO
1458	0	3.5		^a 170 ±50	(69 ± 2)		JENDL-2
1458				^a 170 ±50	(69 ± 2)		81MIZUMOTO
1472	0	3.5		^a 560 ±70	(69 ± 2)		JENDL-2
1472				^a 560 ±70	(69 ± 2)		81MIZUMOTO
1517	0	3.5		^a 1110 ±100	(69 ± 2)		JENDL-2
1517				^a 1110 ±100	(69 ± 2)		81MIZUMOTO
1528	0	3.5		^a 100 ±50	(69 ± 2)		JENDL-2
1528				^a 100 ±50	(69 ± 2)		81MIZUMOTO
1539	0	3.5		^a 340 ±90	(69 ± 2)		JENDL-2
1539				^a 340 ±90	(69 ± 2)		81MIZUMOTO
1561	0	3.5		^a 320 ±70	(69 ± 2)		JENDL-2
1561				^a 320 ±70	(69 ± 2)		81MIZUMOTO
1566	0	3.5		^a 220 ±60	(69 ± 2)		JENDL-2
1566				^a 220 ±60	(69 ± 2)		81MIZUMOTO
1580	0	3.5		^a 410 ±80	(69 ± 2)		JENDL-2
1580				^a 410 ±80	(69 ± 2)		81MIZUMOTO
1594	0	3.5		^a 370 ±100	(69 ± 2)		JENDL-2
1594				^a 370 ±100	(69 ± 2)		81MIZUMOTO
1610	0	3.5		^a 390 ±100	(69 ± 2)		JENDL-2
1610				^a 390 ±100	(69 ± 2)		81MIZUMOTO
1634	0	3.5		^a 320 ±140	(69 ± 2)		JENDL-2
1634				^a 320 ±140	(69 ± 2)		81MIZUMOTO
1646	0	3.5		^a 1420 ±170	(69 ± 2)		JENDL-2
1646				^a 1420 ±170	(69 ± 2)		81MIZUMOTO
1663	0	3.5		^a 490 ±120	(69 ± 2)		JENDL-2
1663				^a 490 ±120	(69 ± 2)		81MIZUMOTO
1679	0	3.5		^a 390 ±80	(69 ± 2)		JENDL-2
1679				^a 390 ±80	(69 ± 2)		81MIZUMOTO
1705	0	3.5		^a 360 ±80	(69 ± 2)		JENDL-2
1705				^a 360 ±80	(69 ± 2)		81MIZUMOTO
1710	0	3.5		^a 110 ±60	(69 ± 2)		JENDL-2
1710				^a 110 ±60	(69 ± 2)		81MIZUMOTO

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
1720 1720	0	3.5		310 ±70 ^a 310 ±70	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1732 1732	0	3.5		520 ±90 ^a 520 ±90	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1738 1738	0	3.5		290 ±80 ^a 290 ±80	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1744 1744	0	3.5		1030 ±120 ^a 1030 ±120	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1780 1780	0	3.5		200 ±70 ^a 200 ±70	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1794 1794	0	3.5		230 ±70 ^a 230 ±70	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1799 1799	0	3.5		490 ±110 ^a 490 ±110	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1819 1819	0	3.5		200 ±80 ^a 200 ±80	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1827 1827	0	3.5		200 ±70 ^a 200 ±70	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1853 1853	0	3.5		120 ±80 ^a 120 ±80	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1865 1865	0	3.5		240 ±80 ^a 240 ±80	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1888 1888	0	3.5		100 ±70 ^a 100 ±70	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1898 1898	0	3.5		890 ±140 ^a 890 ±140	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1902 1902	0	3.5		690 ±120 ^a 690 ±120	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1912 1912	0	3.5		260 ±90 ^a 260 ±90	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1929 1929	0	3.5		400 ±100 ^a 400 ±100	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1937 1937	0	3.5		170 ±80 ^a 170 ±80	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1956 1956	0	3.5		530 ±110 ^a 530 ±110	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1967 1967	0	3.5		260 ±90 ^a 260 ±90	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1974 1974	0	3.5		350 ±100 ^a 350 ±100	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO
1988 1988	0	3.5		230 ±90 ^a 230 ±90	(69 ± 2) (69 ± 2)		JENDL-2 BIMIZUMOTO

A.29 Samarium-148

No resolved resonance parameters are given.

A.30 Samarium-149

ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEDUS	REFERENCE
-0.3		3.0					62MACFARLANE+
-0.285	0	3.0	62.12	1.12	61.0		JENDL-1
0.0973 0.0976 0.0962± 0.0001 0.094 0.0976± 0.0005 0.0967± 0.0005 0.096 0.0973 0.0969 0.098 0.0976	0 0	4.0 4.0 4.0 4.0 4.0 4.0	61.03 65.5 ± 0.5 64.1 ± 1.0 58.00 ± 2.000 59.5 ± 0.8	0.597± 0.006 0.59 1.8 ± 0.1 0.56 ± 0.02	62.9 ± 1.3 60.5 63.6 ± 1.0 62.9 ± 1.3	GND= 1.72 ± 0.02 GND= 1.6 ± 0.1 GND= 1.79 ± 0.07 GND= 1.71 ± 0.03 GA = 6.3 -5	JENDL-2 JENDL-1 54MCREYNOLDS+ 54ROBERTS+ 58MARSHAK+ 58PATTENDEN 62MARSHAK+ 68KYUEZ+ 68ASAMI+ 70POPOV+ 74BECVAR+
0.872 0.872 0.87 ± 0.03 0.873± 0.005 0.87 0.873± 0.003 0.872 0.87 0.873	0 0	4.0 4.0 4.0 4.0 4.0 4.0	60.442 60.6 ± 1.0 58.0 ± 0.30 65.0	0.75 ± 0.07 0.742 0.89 ± 0.05 0.8 ± 0.03	62.7 ± 1.3 59.7 59.8 ± 1.0 (65.0) 62.7 ± 1.5	GND= 0.80 ± 0.07 GND= 0.87 ± 0.1 WGD= 0.66 ± 0.06 GND= 0.863± 0.037 GA = 0.00004	JENDL-2 JENDL-1 58MARSHAK+ 58PATTENDEN 62MARSHAK+ 63PATTENDEN 68KYUEZ+ 70POPOV+ 74BECVAR+
4.940 4.95 4.93 ± 0.03 4.93 4.98 4.98 4.98 4.98 4.98 4.940	0 0	4.0 4.0 4.0 4.0 4.0 4.0 4.0	68.922 66.7 ± 3.0 65.0	2.14 ± 0.03 2.22 2.41 ± 0.03	59 ± 2 66.7 66.7 ± 3.0 59 ± 2	GND= 0.89 ± 0.2 GA = 4.3 -5	JENDL-2 JENDL-1 58MARSHAK+ 62MARSHAK+ 70POPOV+ 71CAUVIN+ 72KARZHAYINA+ 74BECVAR+ 81MIZUMOTO
6.428 6.44 6.4 ± 0.1 6.48 6.48 6.48 6.428	0 0	3.0 3.0 4.0 3.0 3.0	61.72	1.20 ± 0.02 0.72 1.05 ± 0.02	68 ± 5 61.0 68 ± 5	GA = 7.6 -5	JENDL-2 JENDL-1 58MARSHAK+ 70POPOV+ 71CAUVIN+ 72KARZHAYINA+ 74BECVAR+ 81MIZUMOTO
8.928 8.95 8.9 ± 0.1 8.9 9.0 8.93 9.0 8.928	0 0	4.0 4.0 4.0 4.0 3.0	68.66 67.8 ± 6.0 65.0	11.80 ± 0.12 8.36 13.32 ± 0.14	70 ± 4 60.3 66.6 ± 6.0 70 ± 4	GND= 0.39 ± 0.1 GA = 4.4 -5	JENDL-2 JENDL-1 58MARSHAK+ 62MARSHAK+ 70POPOV+ 72KARZHAYINA+ 74BECVAR+ 81MIZUMOTO
12.00 12.05 12.2 12.0 ± 0.5 12.2 12.2 12.0 12.2 12.00	0 0	3.0 3.0 3.0 3.0 3.0 3.0	62.6	1.82 ± 0.02 1.6 1.5 ± 0.28 1.59 ± 0.02	62 ± 6 61.0 (49.0) 62 ± 6	GND= 0.42 ± 0.06 GA = 0.00024	JENDL-2 JENDL-1 57SIMPSON+ 58MARSHAK+ 70POPOV+ 71CAUVIN+ 72KARZHAYINA+ 74BECVAR+ 81MIZUMOTO
14.89 14.9 14.9 14.8 ± 0.5 14.9 14.9 14.9 14.9 14.89	0 0	4.0 4.0 4.0 4.0 4.0 3.0	66.24	5.64 ± 0.07 5.24 6.2 ± 0.6 6.34 ± 0.08	65 ± 8 61.0 (49.0) 65 ± 8	GND= 1.6 ± 0.17 GA = 6.4 -5	JENDL-2 JENDL-1 57SIMPSON+ 58MARSHAK+ 70POPOV+ 71CAUVIN+ 72KARZHAYINA+ 74BECVAR+ 81MIZUMOTO
15.65 15.9 16.0 15.8 ± 0.1 15.8 16.0 15.85	0 1	3.0 3.0 3.0 3.0 3.0	61.34	0.37 ± 0.02 0.34 0.32 ± 0.04 0.32 ± 0.02	(62 ± 2) 61.0 (62 ± 2)	WGD= 0.08 ± 0.01	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAYINA+ 72KARZHAYINA+ 74BECVAR+ 81MIZUMOTO
17.14 17.1 17.1 17.0 ± 0.5 17.1 17.2 17.1 ± 0.1 17.1 17.2 17.14	0 0	4.0 4.0 4.0 4.0 4.0 4.0	63.49	1.98 ± 0.04 2.49 2.48 ± 0.54 2.8 ± 0.4 2.23 ± 0.04	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 0.6 ± 0.13 GA = 5.4 -5 WGD= 0.58 ± 0.1	JENDL-2 JENDL-1 57SIMPSON+ 58MARSHAK+ 70POPOV+ 71CAUVIN+ 71KARZHAYINA+ 72KARZHAYINA+ 74BECVAR+ 81MIZUMOTO
23.23 23.2 23.2 23.2 23.2 ± 0.1 23.2 23.2 23.23	0 1	4.0 4.0 4.0 4.0 4.0	62.07	0.88 ± 0.03 1.07 1.22 ± 0.28 1.2 ± 0.2 0.99 ± 0.03	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 0.26 ± 0.06 WGD= 0.25 ± 0.04	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAYINA+ 72KARZHAYINA+ 74BECVAR+ 81MIZUMOTO
24.72 24.6 24.6 ± 0.1 24.6	0 1	4.0 4.0 4.0	61.92	0.29 ± 0.02 0.32 0.36	(62 ± 2) 61.0	WGD= 0.07	JENDL-2 JENDL-1 71KARZHAYINA+ 72KARZHAYINA+

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
24.72				^a 0.33 ± 0.02	(62 ± 2)		81MIZUMOTO
25.25 25.2 25.1 25.2 25.2 ± 0.1 25.2 25.3 25.26	0 0	3.0 3.0 3.0 3.0 3.0 3.0	79.1	16.0 ± 0.3 17.1 ^a 12.08 ± 1.02 ^a 24.0 ± 7.0 ^a 13.99 ± 0.23	69 ± 14 61.0 (49.0) 69 ± 14	GND= 2.42 ± 0.21 GR = 0.00024 WGO= 4.8 ± 1.4	JENDL-2 JENDL-1 57SIMPSON+ 62CARPENTER 70POPOV+ 71KARZHAVINA+ 72KARZHAVINA+ 74BECVAR+ 81MIZUMOTO
26.06 26.1 25.9 26.1 26.1 ± 0.1 26.1 26.1 26.08	0 0	4.0 4.0 4.0 4.0 4.0 3.0	64.91	3.19 ± 0.07 3.91 ^a 3.9 ± 0.54 ^a 5.0 ± 0.7 ^a 3.59 ± 0.06	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 0.76 ± 0.1 GR = 0.00024 WGO= 0.98 ± 0.14	JENDL-2 JENDL-1 57SIMPSON+ 70POPOV+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 74BECVAR+ 81MIZUMOTO
27.98 27.9 27.9 ± 0.1 27.9 28.1 27.98	0 1	3.0 3.0 3.0 3.0	61.34	0.61 ± 0.03 0.34 ^a 0.3 ± 0.06 ^a 0.53 ± 0.03	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.06 ± 0.01	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74BECVAR+ 81MIZUMOTO
29.91 29.8 29.9 ± 0.1 29.9 29.8 29.91	0 1	3.0 3.0 3.0 3.0	66.37	3.19 ± 0.08 5.37 ^a 4.7 ± 1.6 ^a 2.79 ± 0.07	(62 ± 2) 61.0 (49.0) (62 ± 2)	WGO= 0.86 ± 0.29	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 74BECVAR+ 81MIZUMOTO
30.82 30.7 30.7 30.9 30.9 30.7 ± 0.1 30.7 30.9 30.82	0 0	4.0 4.0 4.0 4.0 4.0 4.0 4.0	69.89	9.50 ± 0.17 8.89 ^a 9.26 ± 0.62 ^a 17.0 ± 4.0 ^a 10.69 ± 0.19	60 ± 14 61.0 (49.0) 60 ± 14	GND= 1.68 ± 0.11 GR = 0.00039 WGO= 3.1 ± 0.7	JENDL-2 JENDL-1 57SIMPSON+ 70POPOV+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 74BECVAR+ 81MIZUMOTO
33.94 33.9 33.9 34.0 34.0 33.9 ± 0.1 33.9 34.0 33.9 33.94	0 0	4.0 4.0 4.0 4.0 4.0 4.0 4.0	66.96	5.60 ± 0.12 5.96 ^a 6.04 ± 0.72 ^a 10.0 ± 2.0 ^a 6.62 ± 0.2 ^a 6.30 ± 0.14	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 1.04 ± 0.12 GR = 0.00014 WGO= 1.7 ± 0.3	JENDL-2 JENDL-1 57SIMPSON+ 70POPOV+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 74BECVAR+ 76SHAH+ 81MIZUMOTO
40.20 40.2 40.2 40.2 40.2 40.1 ± 0.1 40.1 40.20	0 0	3.0 3.0 3.0 3.0	88.0	28.3 ± 0.8 27.0 ^a 23.6 ± 2.8 ^a 28.0 ± 5.0 ^a 24.8 ± 0.7	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 3.72 ± 0.45 GR = 0.00102 WGO= 4.4 ± 0.8	JENDL-2 JENDL-1 57SIMPSON+ 70POPOV+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
40.6		4.0					71CAUVIN+
41.33 41.3 41.3 41.5 41.3 41.4 41.3 ± 0.1 41.3 41.33	0 0	3.0 3.0 3.0 3.0 3.0 3.0	109.7	25.7 ± 0.7 48.7 ^a 42.6 ± 3.9 ^a 38.0 ± 7.0 ^a 22.5 ± 0.6	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 6.24 ± 0.56 GR = 0.00069 WGO= 5.9 ± 1.1	JENDL-2 JENDL-1 57SIMPSON+ 62CARPENTER 70POPOV+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
44.26 44.3 44.3 44.3 ± 0.1 44.3 44.26	0 0	4.0 4.0 4.0	141.0	60.5 ± 1.2 80.0 ^a 90.0 ± 27.0 ^a 68.1 ± 1.3	(62 ± 2) 61.0 (62 ± 2)	WGO= 13.5 ± 4.1	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
45.05 45.1 45.1 45.1 45.1 ± 0.1 45.1 45.05	0 0	4.0 4.0 4.0 4.0	91.4	10.11 ± 0.23 20.4 ^a 7.54 ± 0.39 ^a 23.0 ± 6.0 ^a 11.37 ± 0.26	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 1.12 ± 0.06 GR = 0.00007 WGO= 3.4 ± 0.9	JENDL-2 JENDL-1 57SIMPSON+ 70POPOV+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
49.53 49.5 49.5 ± 0.2 49.5 49.53	0 1	3.0 3.0 3.0	72.4	6.45 ± 0.21 11.4 ^a 16.0 ± 3.0 ^a 5.64 ± 0.18	(62 ± 2) 61.0 (62 ± 2)	WGO= 2.3 ± 0.4	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
50.49 50.5 50.5 50.5 ± 0.2 50.5 50.49	0 1	3.0 3.0 4.0 3.0	62.96	2.79 ± 0.14 1.96 ^a 2.2 ± 0.4 ^a 2.44 ± 0.12	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.31 ± 0.06	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
51.62 51.6 51.6 51.8 51.8 51.6 ± 0.2 51.6 51.62	0 0	4.0 4.0 4.0 4.0 4.0	97.4	42.3 ± 0.8 36.4 A 41.0 ± 4.0 51.0 ± 20.0 A 47.6 ± 0.9 (62 ± 2)	(62 ± 2) 51.0 (49.0)	GND= 5.7 ± 0.57 GR = 0.00012 WGO= 7.1 ± 2.8	JENDL-2 JENDL-1 57SIMPSON+ 70PDPV+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
57.47 57.4 57.5 57.5 57.4 ± 0.2 57.4 57.47	0 0	4.0 4.0 4.0 4.0 4.0	94.4	28.5 ± 0.7 33.4 A 37.6 ± 4.6 30.0 ± 9.0 A 32.1 ± 0.8 (62 ± 2)	(62 ± 2) 61.0 (49.0)	GND= 4.96 ± 0.6 WGO= 4.0 ± 1.2	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
59.69 59.8 59.7 59.8 59.7 ± 0.2 59.7 59.69	0 0	4.0 4.0 4.0 4.0	123.2	60.3 ± 1.2 62.2 A 67.4 ± 5.6 90.0 ± 20.0 A 67.8 ± 1.4 (62 ± 2)	(62 ± 2) 61.0 (49.0)	GND= 8.72 ± 0.72 WGO= 11.3 ± 3.0	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
60.84 60.8 60.9 60.9 ± 0.2 60.9 60.84	0 1	3.0 3.0 3.0	63.63	5.07 ± 0.25 2.63 A 2.3 ± 0.6 A 4.44 ± 0.22 (62 ± 2)	(62 ± 2) 61.0	WGO= 0.3 ± 0.08	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
62.11 62.1 62.1 62.1 62.1 ± 0.2 62.1 62.11	0 0	4.0 4.0 4.0 4.0	105.4	34.7 ± 0.9 44.4 A 46.8 ± 4.0 61.0 ± 11.0 A 39.0 ± 1.0 (62 ± 2)	(62 ± 2) 61.0 (49.0)	GND= 5.94 ± 0.5 WGO= 7.7 ± 1.4	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
64.81 64.8 64.8 64.8 64.7 ± 0.2 64.7 64.81	0 0	3.0 3.0 4.0 3.0	135.3	57.6 ± 1.4 74.3 A 59.6 ± 5.4 98.0 ± 33.0 A 50.4 ± 1.2 (62 ± 2)	(62 ± 2) 61.0 (49.0)	GND= 7.4 ± 0.66 WGO= 12.2 ± 4.1	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
68.30 68.2 68.2 68.2 68.3 ± 0.2 68.3 68.30	0 0	4.0 4.0 4.0 4.0	86.1	16.6 ± 0.5 25.1 A 28.2 ± 5.2 27.0 ± 7.0 A 18.7 ± 0.6 (62 ± 2)	(62 ± 2) 61.0 (49.0)	GND= 3.42 ± 0.54 WGO= 3.3 ± 0.8	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
70.75 70.7 70.7 70.7 70.8 ± 0.2 70.8 70.75	0 0	3.0 3.0 3.0 3.0	155.2	73.6 ± 1.7 94.2 A 82.4 ± 14.6 96.0 ± 40.0 A 64.4 ± 1.5 (62 ± 2)	(62 ± 2) 61.0 (49.0)	GND= 8.8 ± 1.72 WGO= 11.4 ± 4.7	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
72.13 72.2 72.13	0	3.0 3.0		6.5 ± 0.3 A 5.7 ± 0.3 (62 ± 2)	(62 ± 2)		JENDL-2 72KARZHAVINA+ 81MIZUMOTO
73.11 73.0 73.0 73.0 73.1 ± 0.2 73.1 73.11	0 0	4.0 4.0 4.0 4.0	180.5	97.5 ± 2.0 119.5 A 134.4 ± 25.4 130.0 A 109.7 ± 2.3 (62 ± 2)	(62 ± 2) 61.0 (49.0)	GND= 15.7 ± 3.0 WGO= 15.0	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
74.69 74.7 74.7 74.6 ± 0.2 74.6 74.69	0 0	4.0 4.0 4.0	86.8	13.7 ± 0.4 25.8 A 29.0 ± 6.0 15.4 ± 0.4 (62 ± 2)	(62 ± 2) 61.0	WGO= 3.4 ± 0.7	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
75.40 75.3 75.3 75.3 75.3 ± 0.2 75.3 75.40	0 0	3.0 3.0 3.0	91.9	25.6 ± 1.0 30.8 A 23.2 ± 5.4 30.0 ± 6.0 A 22.4 ± 0.9 (62 ± 2)	(62 ± 2) 61.0 (49.0)	GND= 2.68 ± 0.62 WGO= 3.5 ± 0.7	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
76.81 76.9 76.9 ± 0.2 76.9 76.81	0 1	4.0 4.0 4.0	65.0	3.00 ± 0.23 4.0 A 4.5 ± 0.8 3.37 ± 0.26 (62 ± 2)	(62 ± 2) 61.0	WGO= 0.51 ± 0.09	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
83.97 83.8 83.8 ± 0.2 83.9 83.97	0 1	4.0 4.0 4.0	78.8	14.0 ± 0.6 17.8 A 20.0 ± 5.0 15.8 ± 0.7 (62 ± 2)	(62 ± 2) 61.0	WGO= 2.2 ± 0.5	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
87.71 87.7 87.7 ± 0.3	0 1	3.0 3.0	86.1	17.7 ± 0.8 25.1 A 22.0 ± 4.0	(62 ± 2) 61.0	WGO= 2.3 ± 0.4	JENDL-2 JENDL-1 71KARZHAVINA+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
87.7 87.71		3.0		^a 15.5 ± 0.7	(62 ± 2)		72KARZHAVINA+ 81MIZUMOTO
90.85 90.5 90.5 90.5 90.6 ± 0.3 90.6 90.85	0 0	4.0 4.0 4.0 4.0	127.7	84.1 ± 2.2 86.7 ^a 84.2 ± 11.2 ^a 64.0 ± 36.0 ^a 94.6 ± 2.5	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 8.86 ± 1.18 WGO= 6.7 ± 3.8	JENDL-2 JENDL-1 57SIMPSON+ 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
92.27 92.1 92.1 ± 0.3 92.1 92.27	0 0	3.0 3.0 3.0	126.1	75.8 ± 3.4 ^a 66.1 ^a 57.0 ± 17.0 ^a 66.3 ± 3.0	(62 ± 2) 61.0 (62 ± 2)	WGO= 5.9 ± 1.8	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
95.56 95.6 94.9 95.6 ± 0.3 95.6 95.56	0 0	4.0 4.0 4.0	176.6	67.1 ± 3.3 115.6 ^a 340.0 ± 170.0 ^a 130.0 ^a 75.5 ± 3.7	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 35.0 ± 18.0 WGO= 13.0	JENDL-2 JENDL-1 57SIMPSON+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
96.31 96.3 ± 0.3 96.3 96.31	0	3.0 3.0		121.1 ± 4.6 ^a 130.0 ^a 106.0 ± 4	(62 ± 2) (62 ± 2)	WGO= 13.0	JENDL-2 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
98.22 98.1 98.1 ± 0.3 98.1 98.22	0 1	4.0 4.0 4.0	80.6	62.2 ± 3.6 19.6 ^a 22.0 ^a 70 ± 4	(62 ± 2) 61.0 (62 ± 2)	WGO= 2.2	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
99.63 99.5 99.3 99.5 ± 0.3 99.5 99.63	0 1	4.0 4.0 4.0	71.7	45.4 ± 1.9 10.7 ^a 168.0 ± 84.0 ^a 12.0 ^a 51.1 ± 2.1	(62 ± 2) 61.0 (49.0) (62 ± 2)	GND= 17.0 ± 9.0 WGO= 1.2	JENDL-2 JENDL-1 57SIMPSON+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
101.7 101.6 101.6 ± 0.3 101.6 101.7	0 1	3.0 3.0 3.0	64.2	5.1 ± 0.6 3.2 ^a 2.8 ± 0.5 ^a 4.5 ± 0.5	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.28 ± 0.05	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
104.4 104.4	0	3.0		12.5 ± 0.9 ^a 10.9 ± 0.8	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
104.7 104.7 104.7 ± 0.3 104.7	1	4.0 4.0 4.0	78.8	17.8 ^a 20.0 ± 4.0	61.0	WGO= 2.0 ± 0.4	JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+
104.9 104.9	0	4.0		9.5 ± 0.8 ^a 10.7 ± 0.8	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
107.1 107.0 107.0 ± 0.3 107.0 107.1	0 1	3.0 3.0 3.0	74.7	20.5 ± 1.0 13.7 ^a 12.0 ± 2.0 ^a 17.9 ± 0.9	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.2 ± 0.2	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
109.1 109.2 109.2 109.0 ± 0.3 109.0 109.1	0 1	4.0 4.0 4.0	75.2	22.8 ± 1.1 14.2 ^a 16.0 ± 3.0 ^a 25.7 ± 1.2	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.5 ± 0.3	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
111.3 111.2 111.2 ± 0.3 111.2 111.3	0 1	3.0 3.0 3.0	75.9	14.9 ± 0.9 14.9 ^a 13.0 ± 2.0 ^a 13.0 ± 0.8	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.2 ± 0.2	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
115.2 115.3 115.3 115.1 ± 0.3 115.1 115.2	0 1	4.0 4.0 3.0 4.0	69.89	15.9 ± 0.8 8.89 ^a 10.0 ± 2.0 ^a 17.9 ± 0.9	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.93 ± 0.2	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
117.0 117.0 117.0 ± 0.3 117.0 117.0	0 1	3.0 3.0 3.0	64.66	5.8 ± 0.6 3.66 ^a 3.2 ± 1.2 ^a 5.1 ± 0.5	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.29 ± 0.11	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
119.5 119.4 119.4 ± 0.3 119.4 119.5	0 1	3.0 3.0 3.0	82.7	33.7 ± 1.6 21.7 ^a 19.0 ± 4.0 ^a 33.0 ± 1.4	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.7 ± 0.4	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
121.8 121.7 121.7 ± 0.3 121.7 121.8	0 1	4.0 4.0 4.0	62.51	1.33 ± 0.44 1.51 ^a 1.7 ± 0.8 ^a 1.6 ± 0.5	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.15 ± 0.07	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
125.3 125.4 125.4	0 1	4.0 4.0 3.0	80.3	36.8 ± 1.6 29.3	(62 ± 2) 61.0		JENDL-2 JENDL-1 71CAUVIN+

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
125.2 ± 0.3 125.2 125.3		4.0		^R 33.0 ± 8.0 ^R 41.4 ± 1.8	(62 ± 2)	WGO= 2.9 ± 0.7	71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
127.1 127.1 ± 0.3	1	3.5	89.6	^R 2.6 ^R 2.6 ± 0.4	61.0	WGO= 0.23 ± 0.04	JENDL-1 71KARZHAVINA+
130.1 129.9 129.9 130.3 ± 0.3 130.3 130.1	0 1	4.0 4.0 3.0 4.0	65.18	^R 4.3 ± 0.5 ^R 4.18 ^R 4.7 ± 0.6 ^R 4.8 ± 0.6	(62 ± 2) 61.0 (62 ± 2)	WGO= 15.0 ± 5.0	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
134.1 134.3 134.3 134.1 ± 0.4 134.1 134.1	0 0	4.0 4.0 3.0 4.0	221.0	^R 226 ± 4 ^R 160.0 ^R 160.0 ± 60.0 ^R 254 ± 6	(62 ± 2) 61.0 (62 ± 2)	WGO= 15.0 ± 5.0	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
138.8 138.6 ± 0.4 138.6 138.8	0	4.0 4.0		^R 1.07 ± 0.53 ^R 0.8 ± 0.2 ^R 1.2 ± 0.6	(62 ± 2) (62 ± 2)	WGO= 0.07 ± 0.02	JENDL-2 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
141.0 140.2 140.2 141.0 ± 0.4 141.0 141.0	0 1	3.0 3.0 3.0 3.0	62.94	^R 3.8 ± 0.8 ^R 1.94 ^R 1.7 ± 0.3 ^R 3.3 ± 0.7	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.14 ± 0.03	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
144.2 144.2 ± 0.4 144.2 144.2	0 1	4.0 4.0 4.0	88.6	^R 16.6 ± 1.0 ^R 27.6 ^R 31.0 ± 6.0 ^R 18.7 ± 1.1	(62 ± 2) 61.0 (62 ± 2)	WGO= 2.6 ± 0.5	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
145.7 145.7 ± 0.4 145.7 145.7	0 0	4.0 4.0 4.0	203.2	^R 6.3 ± 0.7 ^R 142.2 ^R 160.0 ^R 7.1 ± 0.8	(62 ± 2) 61.0 (62 ± 2)	WGO= 13.0	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
147.1 146.9 ± 0.4 146.9 147.1	0	4.0 4.0		^R 110 ± 4 ^R 160.0 ^R 124 ± 4	(62 ± 2) (62 ± 2)	WGO= 13.0	JENDL-2 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
149.4 149.5 151.7 149.5 ± 0.4 149.5 149.4	0 1	4.0 4.0 3.0 4.0	68.64	^R 1.5 ± 0.6 ^R 7.64 ^R 7.6 ± 1.4 ^R 1.7 ± 0.7	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.62 ± 0.12	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
154.8 154.7 154.7 ± 0.4 154.7 154.8	0 1	4.0 4.0 4.0	109.0	^R 42.8 ± 2.0 ^R 48.0 ^R 54.0 ± 16.0 ^R 48.1 ± 2.3	(62 ± 2) 61.0 (62 ± 2)	WGO= 4.3 ± 1.3	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
157.4 157.5 157.5 ± 0.4 157.5 157.4	0 1	3.0 3.0 3.0	82.7	^R 16.5 ± 1.3 ^R 21.7 ^R 19.0 ± 4.0 ^R 13.6 ± 1.1	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.5 ± 0.3	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
158.5 158.7 158.7 ± 0.4 158.7 158.5	0 1	3.0 3.0 3.0	65.57	^R 6.3 ± 1.0 ^R 4.57 ^R 4.0 ± 0.5 ^R 4.6 ± 0.9	(62 ± 2) 61.0 (62 ± 2)	WGO= 3.2 ± 0.4	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
163.8		4.0					71CAUVIN+
168.2 168.3 168.0 168.3 ± 0.5 168.3 168.2	0 1	3.0 3.0 3.0 3.0	83.9	^R 28.2 ± 1.5 ^R 22.9 ^R 20.0 ± 4.0 ^R 24.7 ± 1.3	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.5 ± 0.3	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
173.5 173.5 171.8 173.5 ± 0.5 173.5 173.5	0 1	3.0 3.0 4.0 3.0	65.1	^R 4.3 ± 0.9 ^R 4.1 ^R 3.6 ^R 3.8 ± 0.8	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.27	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
174.6 174.7 174.7 ± 0.5 174.6	0 1	3.5 3.5	64.6	^R 1.1 ± 0.8 ^R 3.6 ^R 3.6 ^R 1.1 ± 0.8	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.27	JENDL-2 JENDL-1 71KARZHAVINA+ 81MIZUMOTO
177.9 177.8 178.1 177.8 ± 0.5 177.8 177.9	0 0	4.0 4.0 3.0 4.0	123.2	^R 38.8 ± 1.8 ^R 62.2 ^R 70.0 ^R 43.6 ± 2	(62 ± 2) 61.0 (62 ± 2)	WGO= 5.3	JENDL-2 JENDL-1 71CAUVIN+ 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
179.9 179.9 179.9 ± 0.5	0 0	3.0 3.0	141.0	^R 47.4 ± 2.4 ^R 80.0 ^R 70.0	(62 ± 2) 61.0	WGO= 5.3	JENDL-2 JENDL-1 71KARZHAVINA+

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
179.9 179.9		3.0		^a 41.5 ± 2.1	(62 ± 2)		72KARZHAVINA+ 81MIZUMOTO
185.2 185.4 185.0 185.4 ± 0.5 185.4 185.2	0 1	3.0 3.0 3.0 3.0	120.4	266 ± 8 59.4 ^a 52.0 ± 48.0 ^a 233 ± 7	(62 ± 2) 61.0 (62 ± 2)	WGO= 3.8 ± 3.5	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
188.1 188.0 188.0 ± 0.5 188.0 188.1	0 1	4.0 4.0 4.0	100.1	33.2 ± 2.2 39.1 ^a 44.0 ± 26.0 ^a 37.3 ± 2.5	(62 ± 2) 61.0 (62 ± 2)	WGO= 3.2 ± 1.9	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
192.8 192.9 192.9 ± 0.5 192.9 192.8	0 1	4.0 4.0 4.0	71.7	18.4 ± 1.6 10.7 ^a 12.0 ± 3.0 ^a 20.7 ± 1.8	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.87 ± 0.22	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
194.8 195.0 195.0 ± 0.5 194.8	0 1	3.5 3.5	63.2	4.9 ± 1.3 2.2 ^a 2.2 ± 0.4 ^a 4.9 ± 1.3	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.16 ± 0.03	JENDL-2 JENDL-1 71KARZHAVINA+ 81MIZUMOTO
197.5 197.4 197.4 ± 0.5 197.4 197.5	0 1	3.0 3.0 3.0	89.8	20.9 ± 2.4 22.9 ^a 20.0 ± 6.0 ^a 18.3 ± 2.1	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.4 ± 0.4	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
198.3 198.3	0	3.5		^a 7.3 ± 1.7 ^a 7.3 ± 1.7	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
201.0 201.1 201.1 ± 0.6 201.0	0 1	3.5 3.5	69.0	4.2 ± 1.1 8.0 ^a 8.0 ^a 4.2 ± 1.1	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.56	JENDL-2 JENDL-1 71KARZHAVINA+ 81MIZUMOTO
203.7 203.7 203.7 ± 0.6 203.7 203.7	0 1	3.0 3.0 3.0	111.3	134 ± 6 50.3 ^a 44.0 ± 26.0 ^a 117 ± 5	(62 ± 2) 61.0 (62 ± 2)	WGO= 3.1 ± 1.8	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
210.8 210.9 210.9 ± 0.6 210.9 210.8	0 1	4.0 4.0 4.0	69.89	9.7 ± 1.5 8.89 ^a 10.0 ± 2.0 ^a 10.9 ± 1.7	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.89 ± 0.14	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
214.7 214.7 214.7 ± 0.6 214.7 214.7	0 1	3.0 3.0 3.0	80.4	29.8 ± 2.6 19.4 ^a 17.0 ± 5.0 ^a 26.1 ± 2.3	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.2 ± 0.3	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
218.2 218.2 218.2 ± 0.6 218.2 218.2	0 1	4.0 4.0 4.0	69.0	13.0 ± 1.7 9.0 ^a 9.0 ± 2.0 ^a 14.6 ± 1.8	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.61 ± 0.14	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
225.3 225.6 225.6 ± 0.6 225.6 225.3	0 1	4.0 4.0 4.0	88.6	29.1 ± 1.4 27.6 ^a 31.0 ± 10.0 ^a 32.7 ± 1.6	(62 ± 2) 61.0 (62 ± 2)	WGO= 2.1 ± 0.7	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
228.1 228.2 228.2 ± 0.6 228.2 228.1	0 1	4.0 4.0 4.0	83.2	26.0 ± 1.4 22.2 ^a 25.0 ± 8.0 ^a 29.2 ± 1.6	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.6 ± 0.5	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
230.3 230.1 230.1 ± 0.6 230.1 230.3	0 1	3.0 3.0 3.0	120.4	74.6 ± 3.2 59.4 ^a 52.0 ± 30.0 ^a 65.3 ± 2.8	(62 ± 2) 61.0 (62 ± 2)	WGO= 3.4 ± 2.0	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
233.7 234.0 234.0 ± 0.6 234.0 233.7	0 1	4.0 4.0 4.0	68.11	10.1 ± 1.1 7.11 ^a 8.0 ± 3.0 ^a 11.4 ± 1.2	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.5 ± 0.2	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
237.7 238.4 238.4 ± 0.6 237.7	0 1	3.5 3.5	69.0	4.0 ± 1.1 8.0 ^a 8.0 ^a 4 ± 1.1	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.52	JENDL-2 JENDL-1 71KARZHAVINA+ 81MIZUMOTO
240.0 240.1 240.1 ± 0.7 240.1 240.0	0 1	3.0 3.0 3.0	77.0	36.1 ± 1.9 16.0 ^a 14.0 ± 3.0 ^a 31.6 ± 1.7	(62 ± 2) 61.0 (62 ± 2)	WGO= 0.9 ± 0.2	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
244.3 244.3 244.3 ± 0.7 244.3 244.3	0 1	4.0 4.0 4.0	87.7	84 ± 4 26.7 ^a 30.0 ± 11.0 ^a 94 ± 4	(62 ± 2) 61.0 (62 ± 2)	WGO= 1.9 ± 0.7	JENDL-2 JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
247.8	0	3.0		39.7 ± 2.2	(62 ± 2)		JENDL-2

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
246.7 246.7 ± 0.7 248.7 247.8	1	3.0 3.0	81.6	20.6 R 18.0 ± 5.0 R 34.7 ± 1.9	81.0 (62 ± 2)	WGO = 1.1 ± 0.3	JENDL-1 71KARZHAVINA+ 72KARZHAVINA+ 81MIZUMOTO
253.5 253.5	0	3.5		7.9 ± 1.4 R 7.3 ± 1.4	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
254.8 254.7 254.8	0	3.0 3.0		117 ± 6 R 102 ± 5	(62 ± 2) (62 ± 2)		JENDL-2 72KARZHAVINA+ 81MIZUMOTO
258.7 258.8 258.7	0	4.0 4.0		68 ± 4 R 76 ± 4	(62 ± 2) (62 ± 2)		JENDL-2 72KARZHAVINA+ 81MIZUMOTO
260.6 260.6	0	3.5		58 ± 2.8 R 58 ± 2.8	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
263.1 263.1	0	3.5		105 ± 5 R 105 ± 5	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
265.8 265.8	0	3.5		108 ± 5 R 108 ± 5	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
268.9 268.9	0	3.5		15.0 ± 1.6 R 15.0 ± 1.6	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
272.8 272.8	0	3.5		10.9 ± 1.5 R 10.9 ± 1.5	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
282.5 282.5	0	3.5		50 ± 2.5 R 50 ± 2.5	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
283.5 283.5	0	3.5		102 ± 5 R 102 ± 5	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
285.8 285.8	0	3.5		52.7 ± 2.6 R 52.7 ± 2.6	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
288.2 288.2	0	3.5		23.4 ± 1.8 R 23.4 ± 1.8	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
290.1 290.1	0	3.5		11.6 ± 1.6 R 11.6 ± 1.6	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
293.6 293.6	0	3.5		53.8 ± 2.8 R 53.8 ± 2.8	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
294.8 294.8	0	3.5		6.3 ± 1.6 R 6.3 ± 1.6	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
296.9 296.9	0	3.5		36 ± 2.2 R 36 ± 2.2	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
301.1 301.1	0	3.5		13.8 ± 1.7 R 13.8 ± 1.7	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
302.5 302.5	0	3.5		35.6 ± 2.3 R 35.6 ± 2.3	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
305.5 306.5	0	3.5		7.9 ± 1.6 R 7.9 ± 1.6	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
310.9 310.9	0	3.5		11.4 ± 1.7 R 11.4 ± 1.7	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
313.4 313.4	0	3.5		66.3 ± 3.3 R 66.3 ± 3.3	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
315.9 315.9	0	3.5		136 ± 6 R 136 ± 6	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
318.7 318.7	0	3.5		9.8 ± 1.8 R 9.8 ± 1.8	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
320.1 320.1	0	3.5		2.1 ± 1.7 R 2.1 ± 1.7	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
325.3 325.3	0	3.5		14.9 ± 2 R 14.9 ± 2	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
326.8 326.8	0	3.5		84 ± 6 R 84 ± 6	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
327.9 327.9	0	3.5		23.9 ± 3.1 R 23.9 ± 3.1	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
330.9 330.9	0	3.5		56 ± 2.9 R 56 ± 2.9	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
333.2 333.2	0	3.5		26 ± 2.4 R 26 ± 2.4	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
334.8 334.8	0	3.5		128 ± 6 R 128 ± 6	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
337.6 337.6	0	3.5		4.7 ± 1.9 R 4.7 ± 1.9	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
343.5 343.5	0	3.5		6 ± 2 R 6 ± 2	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
346.0 346.0	0	3.5		26.0 ± 2.5 R 26.0 ± 2.5	(62 ± 2) (62 ± 2)		JENDL-2 81MIZUMOTO
348.7	0	3.5		84 ± 4	(62 ± 2)		JENDL-2

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
348.7				R 84 ± 4	(62 ± 2)		81MIZUMOTO
356.0	0	3.5		R 90 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
356.0				R 90 ± 4	(62 ± 2)		
357.6	0	3.5		R 14.5 ± 2.3	(62 ± 2)		JENDL-2 81MIZUMOTO
357.6				R 14.5 ± 2.3	(62 ± 2)		
361.1	0	3.5		R 61 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
361.1				R 61 ± 4	(62 ± 2)		
367.6	0	3.5		R 66 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
367.6				R 66 ± 4	(62 ± 2)		
371.0	0	3.5		R 60 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
371.0				R 60 ± 4	(62 ± 2)		
375.1	0	3.5		R 156 ± 7	(62 ± 2)		JENDL-2 81MIZUMOTO
375.1				R 156 ± 7	(62 ± 2)		
384.9	0	3.5		R 5.9 ± 2.4	(62 ± 2)		JENDL-2 81MIZUMOTO
384.9				R 5.9 ± 2.4	(62 ± 2)		
387.2	0	3.5		R 12.7 ± 2.6	(62 ± 2)		JENDL-2 81MIZUMOTO
387.2				R 12.7 ± 2.6	(62 ± 2)		
389.7	0	3.5		R 68 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
389.7				R 68 ± 4	(62 ± 2)		
396.7	0	3.5		R 64 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
396.7				R 64 ± 4	(62 ± 2)		
400.2	0	3.5		R 12.7 ± 3	(62 ± 2)		JENDL-2 81MIZUMOTO
400.2				R 12.7 ± 3	(62 ± 2)		
404.8	0	3.5		R 149 ± 8	(62 ± 2)		JENDL-2 81MIZUMOTO
404.8				R 149 ± 8	(62 ± 2)		
421.9	0	3.5		R 42 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
421.9				R 42 ± 4	(62 ± 2)		
425.9	0	3.5		R 41 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
425.9				R 41 ± 4	(62 ± 2)		
429.7	0	3.5		R 45 ± 5	(62 ± 2)		JENDL-2 81MIZUMOTO
429.7				R 45 ± 5	(62 ± 2)		
431.7	0	3.5		R 44 ± 5	(62 ± 2)		JENDL-2 81MIZUMOTO
431.7				R 44 ± 5	(62 ± 2)		
436.5	0	3.5		R 14 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
436.5				R 14 ± 4	(62 ± 2)		
440.3	0	3.5		R 42 ± 5	(62 ± 2)		JENDL-2 81MIZUMOTO
440.3				R 42 ± 5	(62 ± 2)		
449.1	0	3.5		R 20.6 ± 3.9	(62 ± 2)		JENDL-2 81MIZUMOTO
449.1				R 20.6 ± 3.9	(62 ± 2)		
452.0	0	3.5		R 49 ± 5	(62 ± 2)		JENDL-2 81MIZUMOTO
452.0				R 49 ± 5	(62 ± 2)		
454.5	0	3.5		R 17 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
454.5				R 17 ± 4	(62 ± 2)		
456.4	0	3.5		R 28 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
456.4				R 28 ± 4	(62 ± 2)		
461.2	0	3.5		R 112 ± 11	(62 ± 2)		JENDL-2 81MIZUMOTO
461.2				R 112 ± 11	(62 ± 2)		
467.0	0	3.5		R 21 ± 6	(62 ± 2)		JENDL-2 81MIZUMOTO
467.0				R 21 ± 6	(62 ± 2)		
472.0	0	3.5		R 13 ± 6	(62 ± 2)		JENDL-2 81MIZUMOTO
472.0				R 13 ± 6	(62 ± 2)		
483.0	0	3.5		R 91 ± 10	(62 ± 2)		JENDL-2 81MIZUMOTO
483.0				R 91 ± 10	(62 ± 2)		
487.5	0	3.5		R 19 ± 6	(62 ± 2)		JENDL-2 81MIZUMOTO
487.5				R 19 ± 6	(62 ± 2)		
490.0	0	3.5		R 75 ± 9	(62 ± 2)		JENDL-2 81MIZUMOTO
490.0				R 75 ± 9	(62 ± 2)		
494.5	0	3.5		R 87 ± 4	(62 ± 2)		JENDL-2 81MIZUMOTO
494.5				R 87 ± 4	(62 ± 2)		
497.7	0	3.5		R 21 ± 6	(62 ± 2)		JENDL-2 81MIZUMOTO
497.7				R 21 ± 6	(62 ± 2)		
504.3	0	3.5		R 38 ± 7	(62 ± 2)		JENDL-2 81MIZUMOTO
504.3				R 38 ± 7	(62 ± 2)		
511.0	0	3.5		R 39 ± 8	(62 ± 2)		JENDL-2 81MIZUMOTO
511.0				R 39 ± 8	(62 ± 2)		
516.9	0	3.5		R 192 ± 16	(62 ± 2)		JENDL-2 81MIZUMOTO
516.9				R 192 ± 16	(62 ± 2)		
519.6	0	3.5		R 111 ± 11	(62 ± 2)		JENDL-2 81MIZUMOTO
519.6				R 111 ± 11	(62 ± 2)		

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
-3.5 -3.2 -3.5	0 0	0.5 0.5	67.1018	9.5 7.1018 9.5	60.0 60.0 (60.0)	COM= M-L-B-W	JENDL-2 JENDL-1.5 74EILAND+
20.7 20.7 21.1 ± 0.5 20.5 20.7 20.64 ± 0.09	0 0	0.5 0.5	106.9 129.0 ± 10.0	47.7 ± 1.5 46.9 47.3 ± 1.5 53.0 ± 6.0	60.2 ± 5.5 60.0 60.2 ± 5.5		JENDL-2 JENDL-1.5 54SATLOR+ 57SIMPSON+ 74EILAND+ 77ANUFRIEV+
48.1 48.1 48.1 48.14 ± 0.2	0 0	0.5 0.5	78.1 115.0 ± 15.0	18.5 ± 0.5 18.1 18.2 ± 0.6 19.5 ± 1.3	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+ 77ANUFRIEV+
111.4 111.4 111.4 111.6 ± 0.5	0 0	0.5 0.5	73.9	14.5 ± 0.8 13.9 13.9 ± 1.3 15.5 ± 2.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+ 77ANUFRIEV+
139.9 139.9 139.9	0 0	0.5 0.5	65.2	5.2 ± 1.1 5.2 5.2 ± 1.1	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
189.3 ± 0.7				7.0 ± 0.8			77ANUFRIEV+
216.5 216.5 216.5 213.5 ± 1.2	0 0	0.5 0.5	74.9	14.9 ± 2.5 14.9 14.9 ± 2.5 8.9 ± 2.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+ 77ANUFRIEV+
266.9 266.9 266.9 267.3 ± 1.5	0 0	0.5 0.5	790.0	730.0 ± 15.0 730.0 732.0 ± 30.0 725.0 ± 40.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+ 77ANUFRIEV+
311.9 311.9 311.9 311.2 ± 2.5	0 0	0.5 0.5	377.0	324.0 ± 10.0 317.0 317.0 ± 20.0 338.0 ± 30.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+ 77ANUFRIEV+
380.2 380.2 380.2 380.6 ± 3.0	0 0	0.5 0.5	1288.0	1240.0 ± 22.0 1228.0 1228.0 ± 70.0 1284.0 ± 150.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+ 77ANUFRIEV+
463.7 463.7 463.7	0 0	0.5 0.5	470.0	410.0 ± 50.0 410.0 410.0 ± 50.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
502.0 502.0 502.0	0 0	0.5 0.5	199.0	139.0 ± 25.0 139.0 139.0 ± 25.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
556.0 556.0 556.0	0 0	0.5 0.5	657.0	597.0 ± 60.0 597.0 597.0 ± 60.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
721.0 721.0 721.0	0 0	0.5 0.5	318.0	258.0 ± 45.0 258.0 258.0 ± 45.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
735.0 735.0 735.0	0 0	0.5 0.5	1030.0	967.0 ± 110.0 970.0 967.0 ± 110.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
832.0 832.0 832.0	0 0	0.5 0.5	1630.0	1470.0 ± 150.0 1470.0 1470.0 ± 150.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
943.0 943.0 943.0	0 0	0.5 0.5	1075.0	1015.0 ± 150.0 1015.0 1015.0 ± 150.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
1023.0 1023.0 1023.0	0 0	0.5 0.5	302.0	242.0 ± 60.0 242.0 242.0 ± 60.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
1168.0 1168.0 1168.0	0 0	0.5 0.5	2030.0	1970.0 ± 200.0 1970.0 1970.0 ± 200.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
1225.0 1225.0 1225.0	0 0	0.5 0.5	870.0	812.0 ± 200.0 810.0 812.0 ± 200.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
1356.0 1356.0 1356.0	0 0	0.5 0.5	1280.0	1218.0 ± 150.0 1220.0 1218.0 ± 150.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
1409.0 1409.0 1409.0	0 0	0.5 0.5	2995.0	2935.0 ± 350.0 2935.0 2935.0 ± 350.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
1512.0 1512.0 1512.0	0 0	0.5 0.5	610.0	550.0 ± 200.0 550.0 550.0 ± 200.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+
1563.0 1563.0 1563.0	0 0	0.5 0.5	845.0	785.0 ± 260.0 785.0 785.0 ± 260.0	(60.0) 60.0 (60.0)		JENDL-2 JENDL-1.5 74EILAND+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
-0.12 -0.12	0 0	2.5		0.588	100 100.0	COM= M-L-B-W WGH= 0.848	JENDL-2 75KIROUAC+
-0.015 -0.015± 0.015	0	3.5	120.0 120.0 *20.0	0.032	119.968	WGO= 0.26 ± 0.03 COM= SHAPE-ANAL	JENDL-1 63PATTENDEN-B
0.456 0.456	0 0	2.5	100.0 ± 8.0	0.026± 0.001	100 ± 8 100.0 ± 8.0	WGH= 0.019± 0.001	JENDL-2 75KIROUAC+
1.085 1.103 1.1 1.104± 0.005 1.103± 0.002	0 0 0 0	2.5 3.5	79.98 80.0 ± 5.0	0.79 ± 0.05 0.68 0.58 ± 0.12	98.1 ± 2.0 79.3 (65.0) (65.0)	WGO= 0.60 ± 0.03 WGO= 0.67 ± 0.02 COM= SHAPE-ANAL WGH= 0.393± 0.005 WGH= 0.465± 0.072	JENDL-2 JENDL-1 58HARVEY+ 63PATTENDEN-A 63PATTENDEN-B
1.086 1.086± 0.009	0		98.9 ± 2.0 116.0 ± 4.0		98.1 ± 2.0		75KIROUAC+ 77ANUFRIEV+
1.697 1.711 1.7 1.71 ± 0.008 1.711± 0.004	0 0 0 0	2.5 3.5	59.99 60.0 ± 11.0	0.37 ± 0.03 0.29 0.2 ± 0.07	92.2 ± 4.5 59.7 (65.0) (65.0)	WGO= 0.22 ± 0.03 WGO= 0.22 ± 0.02 COM= SHAPE-ANAL WGH= 0.146± 0.004 WGH= 0.141± 0.041	JENDL-2 JENDL-1 58HARVEY+ 63PATTENDEN-A 63PATTENDEN-B
1.697 1.703± 0.009	0		92.6 ± 4.5 88.0 ± 5.0		92.2 ± 4.5		75KIROUAC+ 77ANUFRIEV+
2.027 2.047 2.04 2.046± 0.01 2.047± 0.003	0 0 0 0	2.5 3.5	69.02 69.0 ± 10.0	0.62 ± 0.03 0.52 0.34 ± 0.09	81.9 ± 4.0 88.5 (65.0) (65.0)	WGO= 0.38 ± 0.04 WGO= 0.36 ± 0.03 COM= SHAPE-ANAL WGH= 0.223± 0.005 WGH= 0.21 ± 0.06	JENDL-2 JENDL-1 58HARVEY+ 63PATTENDEN-A 63PATTENDEN-B
2.027 2.034± 0.009	0		82.5 ± 3.9 66.0 ± 4.0		81.9 ± 4.0		75KIROUAC+ 77ANUFRIEV+
4.128 4.1 4.1 4.09 ± 0.02 4.128 4.12 ± 0.01	0 0 0 0 0	2.5 3.5	75.57 94.5 ± 7.6 94.0 ± 12.0	1.05 ± 0.08 0.57 0.25 ± 0.08	93.4 ± 7.7 75.0 (65.0) (65.0) 93.4 ± 7.7	WGO= 0.30 ± 0.06 WGH= 0.263± 0.01 WGH= 0.256± 0.022	JENDL-2 JENDL-1 58HARVEY+ 63PATTENDEN-A 75KIROUAC+ 77ANUFRIEV+
4.19 4.19 ± 0.02	0 0	3.5	75.43	0.43	75.0 (65.0)	WGO= 0.21 ± 0.07	JENDL-1 63PATTENDEN-A
5.33 5.33 ± 0.05	0 0	3.5	75.46	0.46	75.0 (65.0)	WGO= 0.20 ± 0.10	JENDL-1 63PATTENDEN-A
6.392 6.44 6.3 6.44 ± 0.03 6.392 6.41 ± 0.02	0 0 0 0 0	2.5 3.5	79.9 92.2 ± 6.2 129.0 ± 13.0	5.59 ± 0.16 4.9 1.3 ± 0.4	86.7 ± 7.0 75.0 (65.0) (65.0) 86.7 ± 7.0	WGO= 2.1 ± 0.2 WGH= 1.09 ± 0.04 WGH= 1.15 ± 0.06	JENDL-2 JENDL-1 58HARVEY+ 63PATTENDEN-A 75KIROUAC+ 77ANUFRIEV+
10.33 10.49 10.49 ± 0.05 10.33 10.45 ± 0.04	0 0 0 0	2.5 3.5	87.6 117.0 ± 6.0 120.0 ± 7.0	13.1 ± 0.6 12.6	105 ± 7 75.0 (65.0) 105.0 ± 7.0	WGO= 3.9 ± 0.5 WGH= 1.91 ± 0.08 WGH= 2.1 ± 0.07	JENDL-2 JENDL-1 63PATTENDEN-A 75KIROUAC+ 77ANUFRIEV+
11.13 11.33 11.33 ± 0.06 11.13 11.26 ± 0.05	0 0 0 0	2.5 3.5	80.05 84.0 ± 12.0 116.0 ± 7.0	3.55 ± 0.25 5.05	81 ± 12 75.0 (65.0) 81.0 ± 12.0	WGO= 1.5 ± 0.4 WGH= 0.51 ± 0.02 WGH= 0.56 ± 0.03	JENDL-2 JENDL-1 63PATTENDEN-A 75KIROUAC+ 77ANUFRIEV+
12.67 12.75 12.75 ± 0.08 12.67 12.77 ± 0.06	0 0 0 0	2.5 3.5	77.5 104.0 ± 53.0 152.0 ± 25.0	1.59 ± 0.2 2.5	103 ± 53 75.0 (65.0) 103.0 ± 53.0	WGO= 0.7 ± 0.4 WGH= 0.19 ± 0.02 WGH= 0.24 ± 0.02	JENDL-2 JENDL-1 63PATTENDEN-A 75KIROUAC+ 77ANUFRIEV+
15.18 15.18 15.15 ± 0.07	0 0	2.5	100.0	0.84 ± 0.01	(96 ± 12) (96)	WGH= 0.108± 0.004 WGH= 0.105± 0.01	JENDL-2 75KIROUAC+ 77ANUFRIEV+
16.80 16.8 16.74 ± 0.08	0 0	2.5	119.0 ± 4.0 135.0 ± 9.0	11.2 ± 1.0	109 ± 5 109.0 ± 5.0	WGH= 1.25 ± 0.03 WGH= 1.51 ± 0.04	JENDL-2 75KIROUAC+ 77ANUFRIEV+
17.33 17.33 17.33 ± 0.08	0 0	2.5	117.0 ± 4.0 101.0 ± 8.0	15.5 ± 0.4	102 ± 5 102.0 ± 5.0	WGH= 1.84 ± 0.03 WGH= 1.96 ± 0.07	JENDL-2 75KIROUAC+ 77ANUFRIEV+
18.43 18.43	0 0	2.5	125.0 ± 13.0	7.9 ± 0.9	117 ± 14 117.0 ± 14.0	WGH= 0.92 ± 0.11	JENDL-2 75KIROUAC+
18.61 18.61	0 0	2.5	119.0 ± 24.0	4.1 ± 0.9	115 ± 25 115.0 ± 25.0	WGH= 0.47 ± 0.11	JENDL-2 75KIROUAC+
20.65 20.65	0 0	2.5		3.7 ± 0.1	(96 ± 12) (96)	WGH= 0.41 ± 0.01	JENDL-2 75KIROUAC+
21.87 21.87	0 0	2.5		2.2 ± 0.1	(96 ± 12) (96)	WGH= 0.23 ± 0.01	JENDL-2 75KIROUAC+
22.83 22.83	0 0	2.5		0.89 ± 0.08	(96 ± 12) (96)	WGH= 0.093± 0.008	JENDL-2 75KIROUAC+
25.36 25.36	0 0	2.5		5.8 ± 0.1	(96 ± 12) (96)	WGH= 0.575± 0.013	JENDL-2 75KIROUAC+
28.30	0	2.5		4.6 ± 1.6	(96 ± 12)		JENDL-2

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
28.3	0				(96)	WGH= 0.432± 0.15	75KIROUAC+
30.66 30.66	0 0	2.5		4.0 ± 0.2	(96 ±12) (96)	WGH= 0.363± 0.017	JENDL-2 75KIROUAC+
32.74 32.74	0 0	2.5		4.1 ± 0.2	(96 ±12) (96)	WGH= 0.351± 0.015	JENDL-2 75KIROUAC+
34.80 34.8	0 0	2.5		1.46 ± 0.22	(96 ±12) (96)	WGH= 0.124± 0.019	JENDL-2 75KIROUAC+
36.91 36.91	0 0	2.5		10.9 ± 3.6	(96 ±12) (96)	WGH= 0.9 ± 0.03	JENDL-2 75KIROUAC+
37.30 37.3	0 0	2.5		2.4 ± 0.2	(96 ±12) (96)	WGH= 0.2 ± 0.02	JENDL-2 75KIROUAC+
38.55 38.55	0 0	2.5		1.37 ± 0.25	(96 ±12) (96)	WGH= 0.11 ± 0.02	JENDL-2 75KIROUAC+
39.45 39.45	0 0	2.5		10.2 ± 0.4	(96 ±12) (96)	WGH= 0.81 ± 0.03	JENDL-2 75KIROUAC+
41.81 41.81	0 0	2.5		13.4 ± 0.5	(96 ±12) (96)	WGH= 1.04 ± 0.04	JENDL-2 75KIROUAC+
44.17 44.17	0 0	2.5		9.0 ± 0.5	(96 ±12) (96)	WGH= 0.68 ± 0.04	JENDL-2 75KIROUAC+
47.25 47.25	0 0	2.5		7.0 ± 0.4	(96 ±12) (96)	WGH= 0.51 ± 0.03	JENDL-2 75KIROUAC+
48.17 48.17	0 0	2.5		1.94 ± 0.42	(96 ±12) (96)	WGH= 0.14 ± 0.03	JENDL-2 75KIROUAC+
49.49 49.49	0 0	2.5		4.1 ± 0.4	(96 ±12) (96)	WGH= 0.25 ± 0.03	JENDL-2 75KIROUAC+
50.67 50.67	0 0	2.5		14.7 ± 0.6	(96 ±12) (96)	WGH= 1.03 ± 0.04	JENDL-2 75KIROUAC+
54.76 54.76	0 0	2.5		4.3 ± 0.4	(96 ±12) (96)	WGH= 0.29 ± 0.03	JENDL-2 75KIROUAC+
56.3 56.3	0 0	2.5		1.20 ± 0.45	(96 ±12) (96)	WGH= 0.08 ± 0.03	JENDL-2 75KIROUAC+
57.3 57.3	0 0	2.5		7.7 ± 0.6	(96 ±12) (96)	WGH= 0.51 ± 0.04	JENDL-2 75KIROUAC+
58.8 58.8	0 0	2.5		40 ± 1	(96 ±12) (96)	WGH= 2.61 ± 0.06	JENDL-2 75KIROUAC+
59.6 59.6	0 0	2.5		0.80 ± 0.50	(96 ±12) (96)	WGH= 0.058± 0.032	JENDL-2 75KIROUAC+
60.4 60.4	0 0	2.5		2.0 ± 0.5	(96 ±12) (96)	WGH= 0.13 ± 0.03	JENDL-2 75KIROUAC+
66.2 66.2	0 0	2.5		2.3 ± 0.7	(96 ±12) (96)	WGH= 0.14 ± 0.04	JENDL-2 75KIROUAC+
66.5 66.5	0 0	2.5		3.3 ± 0.7	(96 ±12) (96)	WGH= 0.2 ± 0.04	JENDL-2 75KIROUAC+
68.1 68.1	0 0	2.5		6.9 ± 0.7	(96 ±12) (96)	WGH= 0.42 ± 0.04	JENDL-2 75KIROUAC+
70.6 70.6	0 0	2.5		7.7 ± 0.7	(96 ±12) (96)	WGH= 0.46 ± 0.04	JENDL-2 75KIROUAC+
71.0 71.0	0 0	2.5		7.9 ± 0.7	(96 ±12) (96)	WGH= 0.47 ± 0.04	JENDL-2 75KIROUAC+
72.1 72.1	0 0	2.5		6.5 ± 0.8	(96 ±12) (96)	WGH= 0.39 ± 0.05	JENDL-2 75KIROUAC+
73.9 73.9	0 0	2.5		11.0 ± 0.9	(96 ±12) (96)	WGH= 0.64 ± 0.05	JENDL-2 75KIROUAC+
74.7 74.7	0 0	2.5		30 ± 1	(96 ±12) (96)	WGH= 1.71 ± 0.06	JENDL-2 75KIROUAC+
75.6 75.6	0 0	2.5		9.6 ± 1.0	(96 ±12) (96)	WGH= 0.55 ± 0.06	JENDL-2 75KIROUAC+
79.2 79.2	0 0	2.5		14.2 ± 1.2	(96 ±12) (96)	WGH= 0.6 ± 0.07	JENDL-2 75KIROUAC+
80.5 80.5	0 0	2.5		7.9 ± 0.9	(96 ±12) (96)	WGH= 0.44 ± 0.05	JENDL-2 75KIROUAC+
81.2 81.2	0 0	2.5		7.5 ± 1.0	(96 ±12) (96)	WGH= 0.42 ± 0.06	JENDL-2 75KIROUAC+
82.1 82.1	0 0	2.5		5.4 ± 0.9	(96 ±12) (96)	WGH= 0.3 ± 0.05	JENDL-2 75KIROUAC+
86.1 86.1	0 0	2.5		5.8 ± 1.1	(96 ±12) (96)	WGH= 0.31 ± 0.06	JENDL-2 75KIROUAC+
88.0 88.0	0 0	2.5		23 ± 1	(96 ±12) (96)	WGH= 1.2 ± 0.07	JENDL-2 75KIROUAC+
88.8 88.8	0 0	2.5		8.3 ± 1.3	(96 ±12) (96)	WGH= 0.44 ± 0.07	JENDL-2 75KIROUAC+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
92.3 92.3	0 0	2.5		2.9 ± 1.2	(96 ±12) (96)	WGH= 0.15 ± 0.06	JENDL-2 75KIROUAC+
93.4 93.4	0 0	2.5		2.3 ± 1.2	(96 ±12) (96)	WGH= 0.12 ± 0.06	JENDL-2 75KIROUAC+
95.0 95.0	0 0	2.5		3.8 ± 1.4	(96 ±12) (96)	WGH= 0.2 ± 0.07	JENDL-2 75KIROUAC+
96.6 96.6	0 0	2.5		39 ± 2	(96 ±12) (96)	WGH= 2.0 ± 0.1	JENDL-2 75KIROUAC+
97.3 97.3	0 0	2.5		5.9 ± 1.4	(96 ±12) (96)	WGH= 0.3 ± 0.07	JENDL-2 75KIROUAC+
99.6 99.6	0 0	2.5		8.0 ± 1.4	(96 ±12) (96)	WGH= 0.4 ± 0.07	JENDL-2 75KIROUAC+
100.8 100.8	0 0	2.5		34 ± 2	(96 ±12) (96)	WGH= 1.7 ± 0.11	JENDL-2 75KIROUAC+
103.0 103.0	0 0	2.5		2.2 ± 1.6	(96 ±12) (96)	WGH= 0.11 ± 0.08	JENDL-2 75KIROUAC+
104.1 104.1	0 0	2.5		1.84 ± 1.43	(96 ±12) (96)	WGH= 0.09 ± 0.07	JENDL-2 75KIROUAC+
105.3 105.3	0 0	2.5		11.3 ± 1.8	(96 ±12) (96)	WGH= 0.55 ± 0.09	JENDL-2 75KIROUAC+
118.8 118.8	0 0	2.5		19.0 ± 2.5	(96 ±12) (96)	WGH= 0.87 ± 0.12	JENDL-2 75KIROUAC+
122.2 122.2	0 0	2.5		11.9 ± 2.7	(96 ±12) (96)	WGH= 0.54 ± 0.12	JENDL-2 75KIROUAC+
123.5 123.5	0 0	2.5		4.4 ± 2.2	(96 ±12) (96)	WGH= 0.2 ± 0.1	JENDL-2 75KIROUAC+
124.1 124.1	0 0	2.5		11.6 ± 2.7	(96 ±12) (96)	WGH= 0.52 ± 0.12	JENDL-2 75KIROUAC+
125.9 125.9	0 0	2.5		7.4 ± 2.9	(96 ±12) (96)	WGH= 0.33 ± 0.13	JENDL-2 75KIROUAC+
127.7 127.7	0 0	2.5		22 ± 3	(96 ±12) (96)	WGH= 0.97 ± 0.13	JENDL-2 75KIROUAC+
130.3 130.3	0 0	2.5		35 ± 4	(96 ±12) (96)	WGH= 1.55 ± 0.16	JENDL-2 75KIROUAC+
137.5 137.5	0 0	2.5		20 ± 3	(96 ±12) (96)	WGH= 0.87 ± 0.12	JENDL-2 75KIROUAC+
138.3 138.3	0 0	2.5		56 ± 4	(96 ±12) (96)	WGH= 2.38 ± 0.18	JENDL-2 75KIROUAC+
141.1 141.1	0 0	2.5		57 ± 5	(96 ±12) (96)	WGH= 2.4 ± 0.19	JENDL-2 75KIROUAC+
143.6 143.6	0 0	2.5		32 ± 4	(96 ±12) (96)	WGH= 1.35 ± 0.18	JENDL-2 75KIROUAC+
146.2 146.2	0 0	2.5		1.9 ± 1.7	(96 ±12) (96)	WGH= 0.08 ± 0.07	JENDL-2 75KIROUAC+
147.9 147.9	0 0	2.5		12.6 ± 3.6	(96 ±12) (96)	WGH= 0.52 ± 0.15	JENDL-2 75KIROUAC+
148.8 148.8	0 0	2.5		9.0 ± 2.9	(96 ±12) (96)	WGH= 0.37 ± 0.12	JENDL-2 75KIROUAC+
150.5 150.5	0 0	2.5		39 ± 4	(96 ±12) (96)	WGH= 1.6 ± 0.16	JENDL-2 75KIROUAC+
152.1 152.1	0 0	2.5		32 ± 4	(96 ±12) (96)	WGH= 1.29 ± 0.17	JENDL-2 75KIROUAC+
154.6 154.6	0 0	2.5		13.9 ± 3.7	(96 ±12) (96)	WGH= 0.56 ± 0.15	JENDL-2 75KIROUAC+
159.5 159.5	0 0	2.5		28 ± 5	(96 ±12) (96)	WGH= 1.11 ± 0.19	JENDL-2 75KIROUAC+
162.4 162.4	0 0	2.5		21 ± 5	(96 ±12) (96)	WGH= 0.84 ± 0.19	JENDL-2 75KIROUAC+
164.3 164.3	0 0	2.5		21 ± 5	(96 ±12) (96)	WGH= 0.81 ± 0.18	JENDL-2 75KIROUAC+
167.3 167.3	0 0	2.5		12.9 ± 4.4	(96 ±12) (96)	WGH= 0.5 ± 0.17	JENDL-2 75KIROUAC+
169.8 169.8	0 0	2.5		42 ± 6	(96 ±12) (96)	WGH= 1.61 ± 0.22	JENDL-2 75KIROUAC+
175.6 175.6	0 0	2.5		26 ± 6	(96 ±12) (96)	WGH= 0.98 ± 0.22	JENDL-2 75KIROUAC+
177.6 177.6	0 0	2.5		35 ± 6	(96 ±12) (96)	WGH= 1.3 ± 0.21	JENDL-2 75KIROUAC+
180.8 180.8	0 0	2.5		33 ± 6	(96 ±12) (96)	WGH= 1.22 ± 0.22	JENDL-2 75KIROUAC+
182.3	0	2.5		14.0 ± 5.1	(96 ±12)		JENDL-2

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
182.3	0				(96)	WGH= 0.52 ± 0.19	75KIROUAC+
183.2 183.2	0 0	2.5		18.7 ± 4.6	(96 ±12) (96)	WGH= 0.69 ± 0.17	JENDL-2 75KIROUAC+
184.3 184.3	0 0	2.5		26 ± 5	(96 ±12) (96)	WGH= 0.94 ± 0.19	JENDL-2 75KIROUAC+
186.3 186.3	0 0	2.5		21 ± 7	(96 ±12) (96)	WGH= 0.76 ± 0.24	JENDL-2 75KIROUAC+
192.5 192.5	0 0	2.5		11.1 ± 6.4	(96 ±12) (96)	WGH= 0.4 ± 0.23	JENDL-2 75KIROUAC+
195.0 195.0	0 0	2.5		17.0 ± 6.4	(96 ±12) (96)	WGH= 0.61 ± 0.23	JENDL-2 75KIROUAC+
200.9 200.9	0 0	2.5		11.1 ± 6.5	(96 ±12) (96)	WGH= 0.39 ± 0.23	JENDL-2 75KIROUAC+
204.4 204.4	0 0	2.5		38 ± 8	(96 ±12) (96)	WGH= 1.32 ± 0.28	JENDL-2 75KIROUAC+
207.0 207.0	0 0	2.5		30 ± 7	(96 ±12) (96)	WGH= 1.03 ± 0.26	JENDL-2 75KIROUAC+
208.1 208.1	0 0	2.5		47 ± 8	(96 ±12) (96)	WGH= 1.54 ± 0.26	JENDL-2 75KIROUAC+
209.6 209.6	0 0	2.5		26 ± 8	(96 ±12) (96)	WGH= 0.91 ± 0.26	JENDL-2 75KIROUAC+
213.1 213.1	0 0	2.5		82 ±11	(96 ±12) (96)	WGH= 2.81 ± 0.39	JENDL-2 75KIROUAC+
218.5 218.5	0 0	2.5		26 ± 9	(96 ±12) (96)	WGH= 0.89 ± 0.31	JENDL-2 75KIROUAC+
228.7 228.7	0 0	2.5		36 ± 9	(96 ±12) (96)	WGH= 1.2 ± 0.31	JENDL-2 75KIROUAC+
232.0 232.0	0 0	2.5		94 ±12	(96 ±12) (96)	WGH= 3.1 ± 0.36	JENDL-2 75KIROUAC+
234.5 234.5	0 0	2.5		89 ±13	(96 ±12) (96)	WGH= 2.9 ± 0.42	JENDL-2 75KIROUAC+
238.3 238.3	0 0	2.5		52 ±11	(96 ±12) (96)	WGH= 1.7 ± 0.37	JENDL-2 75KIROUAC+
239.5 239.5	0 0	2.5		130 ±13	(96 ±12) (96)	WGH= 4.2 ± 0.43	JENDL-2 75KIROUAC+
244.2 244.2	0 0	2.5		21 ±11	(96 ±12) (96)	WGH= 0.87 ± 0.34	JENDL-2 75KIROUAC+
248.0 248.0	0 0	2.5		20 ±10	(96 ±12) (96)	WGH= 0.65 ± 0.33	JENDL-2 75KIROUAC+
251.7 251.7	0 0	2.5		89 ±15	(96 ±12) (96)	WGH= 2.8 ± 0.46	JENDL-2 75KIROUAC+
255.4 255.4	0 0	2.5		69 ±12	(96 ±12) (96)	WGH= 2.16 ± 0.39	JENDL-2 75KIROUAC+
259.5 259.5	0 0	2.5		32 ±12	(96 ±12) (96)	WGH= 0.98 ± 0.36	JENDL-2 75KIROUAC+
261.3 261.3	0 0	2.5		50 ±12	(96 ±12) (96)	WGH= 1.55 ± 0.37	JENDL-2 75KIROUAC+
264.6 264.6	0 0	2.5		121 ±17	(96 ±12) (96)	WGH= 3.72 ± 0.51	JENDL-2 75KIROUAC+
266.9 266.9	0 0	2.5		46 ±13	(96 ±12) (96)	WGH= 1.41 ± 0.39	JENDL-2 75KIROUAC+
272.3 272.3	0 0	2.5		38 ±15	(96 ±12) (96)	WGH= 1.15 ± 0.44	JENDL-2 75KIROUAC+
281.8 281.8	0 0	2.5		111 ±19	(96 ±12) (96)	WGH= 3.3 ± 0.58	JENDL-2 75KIROUAC+
288.9 288.9	0 0	2.5		40 ±15	(96 ±12) (96)	WGH= 1.18 ± 0.45	JENDL-2 75KIROUAC+
292.4 292.4	0 0	2.5		45 ±16	(96 ±12) (96)	WGH= 1.31 ± 0.47	JENDL-2 75KIROUAC+
295.7 295.7	0 0	2.5		76 ±17	(96 ±12) (96)	WGH= 2.2 ± 0.49	JENDL-2 75KIROUAC+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
-20	0	0.5		180	65	COM= M-L-B-W	JENDL-2
8.06 8.047 8.2 ± 0.1 8.036 ± 0.01 8.09 ± 0.04 8.03 8.06 ± 0.01	0 0	0.5 0.5	198.0 201.0 ± 8.0	191 ± 6 190.0 ± 5.0	60 ± 11 68.0 (65.0) 71.0 ± 10.0 60.0 ± 11.0	GNO= 51.0 ± 2.0 GNO=(46.0 ± 2.0)	JENDL-2 JENDL-1.5 54SAILOS+ 62BERNABEI+ 63PATTENDEN 68KARZHAVINA+ 72RAHN+
62.2 62.2 62.1 62.2 ± 0.1	0 0	0.5 0.5	69.0	4 ± 2 4.0	(65 ± 15) 65.0	GNO= 0.5 ± 0.3	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
87.7 87.7 87.7 ± 0.1	0 0	0.5 0.5	270.0	206 ± 19 205.0	65 ± 25 65.0 65.0 ± 25.0	GNO= 22.0 ± 2.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
154.1 154.1 153.7 154.1 ± 0.2	0 0	0.5 0.5	206.0	142 ± 19 142.0	93 ± 23 63.0 93.0 ± 23.0	GNO= 11.4 ± 1.5	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
185.2 185.2 185.2 ± 0.2	0 0	0.5 0.5	70.0	19 ± 1 19.0	51 ± 10 51.0 51.0 ± 10.0	GNO= 1.4 ± 0.1	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
237.0 237.2 237.0 237.0 ± 0.2	0 0	0.5 0.5	483.0	416 ± 31 420.0	(65 ± 15) 63.0	GNO= 27.0 ± 2.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
260.0							68KARZHAVINA+
314.7 314.7 315.0 314.7 ± 0.3	0 0	0.5 0.5	198.0	135 ± 20 135.0	(65 ± 15) 63.0	GNO= 7.6 ± 1.1	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
327.2 327.2 326.0 327.2 ± 0.3	0 0	0.5 0.5	268.0	204 ± 20 205.0	(65 ± 15) 63.0	GNO= 11.3 ± 1.1	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
385.1 385.1 384.0 385.1 ± 0.4	0 0	0.5 0.5	103.0	39 ± 6 40.0	45 ± 9 63.0 45.0 ± 9.0	GNO= 2.0 ± 0.3	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
415.8 415.8 415.0 415.8 ± 0.4	0 0	0.5 0.5	120.0	57 ± 4 57.0	58 ± 10 63.0 58.0 ± 10.0	GNO= 2.8 ± 0.2	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
482.9 484.0 482.9 ± 0.5	0 0	0.5		8.8 ± 4.4	(65 ± 15)	GNO= 0.4 ± 0.2	JENDL-2 68KARZHAVINA+ 72RAHN+
505.9 505.9 508.0 505.9 ± 0.5	0 0	0.5 0.5	258.0	196 ± 16 195.0	(65 ± 15) 63.0	GNO= 8.7 ± 0.7	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
587.1 587.1 586.0 587.1 ± 0.5	0 0	0.5 0.5	222.0	160 ± 17 159.0	81 ± 24 63.0 81.0 ± 24.0	GNO= 6.6 ± 0.7	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
601.0							68KARZHAVINA+
641.9 641.9 642.0 641.9 ± 0.5	0 0	0.5 0.5	443.0	380 ± 20 380.0	(65 ± 15) 63.0	GNO= 15.0 ± 0.8	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
768.7 768.7 768.7 ± 0.6	0 0	0.5 0.5	553.0	491 ± 25 490.0	(65 ± 15) 63.0	GNO= 17.7 ± 0.9	JENDL-2 JENDL-1.5 72RAHN+
775.4 775.4 772.0 775.4 ± 0.6	0 0	0.5 0.5	2363.0	2310 ± 140 2300.0	(65 ± 15) 63.0	GNO= 83.0 ± 5.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
792.5 792.5 792.0 792.5 ± 0.6	0 0	0.5 0.5	178.0	115 ± 8 115.0	60 ± 14 63.0 60.0 ± 14.0	GNO= 4.1 ± 0.3	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
852.9 852.9 853.0 852.9 ± 0.4	0 0	0.5 0.5	458.0	394 ± 29 395.0	(65 ± 15) 63.0	GNO= 13.5 ± 1.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
928.7 928.7 928.0 928.7 ± 0.4	0 0	0.5 0.5	69.0	6.1 ± 3.0 6.0	(65 ± 15) 63.0	GNO= 0.2 ± 0.1	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
952.3 952.3 955.0 952.3 ± 0.4	0 0	0.5 0.5	473.0	410 ± 31 410.0	(65 ± 15) 63.0	GNO= 13.3 ± 1.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
986.4 986.4 991.0 986.4 ± 0.5	0 0 0	0.5 0.5	268.0	204 ±22 205.0	(65 ±15) 63.0	GND= 6.5 ± 0.7	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1047.6 1047.6 1050.0 1047.6 ± 0.6	0 0 0	0.5 0.5	283.0	220 ±26 220.0	(65 ±15) 63.0	GND= 6.8 ± 0.8	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1081.8 1081.8 1086.0 1081.8 ± 0.7	0 0 0	0.5 0.5	96.0	33 ± 7 33.0	(65 ±15) 63.0	GND= 1.0 ± 0.2	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1113.2 1113.2 1115.0 1113.2 ± 0.8	0 0 0	0.5 0.5	101.0	37 ± 3 38.0	(65 ±15) 63.0	GND= 1.1 ± 0.1	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1228.1 1228.1 1229.0 1228.1 ± 0.6	0 0 0	0.5 0.5	477.0	414 ±28 414.0	(65 ±15) 63.0	GND= 11.8 ± 0.8	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1239.5 1239.5 1239.5 ± 0.6	0 0 0	0.5 0.5	573.0	510 ±32 510.0	(65 ±15) 63.0	GND= 14.5 ± 0.9	JENDL-2 JENDL-1.5 72RAHN+
1314.4 1314.4 1312.0 1314.4 ± 0.6	0 0 0	0.5 0.5	323.0	247 ±22 250.0	73 ±25 73.0	GND= 6.8 ± 0.6	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1402.4 1402.4 1402.4 ± 0.7	0 0 0	0.5 0.5	1183.0	1120 ±75 1120.0	(65 ±15) 63.0	GND= 30.0 ± 2.0	JENDL-2 JENDL-1.5 72RAHN+
1427.2 1427.2 1427.2 ± 0.7	0 0 0	0.5 0.5	1313.0	1250 ±110 1250.0	(65 ±15) 63.0	GND= 33.0 ± 3.0	JENDL-2 JENDL-1.5 72RAHN+
1501.9 1501.9 1501.9 ± 0.8	0 0 0	0.5 0.5	180.0	97 ±12 97.0	(65 ±15) 63.0	GND= 2.5 ± 0.3	JENDL-2 JENDL-1.5 72RAHN+
1541.3 1541.3 1541.3 ± 0.8	0 0 0	0.5 0.5	452.0	388 ±79 388.0	(65 ±15) 63.0	GND= 9.9 ± 2.0	JENDL-2 JENDL-1.5 72RAHN+
1600.6 1600.6 1600.6 ± 0.9	0 0 0	0.5 0.5	383.0	320 ±48 320.0	(65 ±15) 63.0	GND= 8.0 ± 1.2	JENDL-2 JENDL-1.5 72RAHN+
1691.8 1691.8 1691.8 ± 0.5	0 0 0	0.5 0.5	1173.0	1110 ±80 1110.0	(65 ±15) 63.0	GND= 27.0 ± 2.0	JENDL-2 JENDL-1.5 72RAHN+
1730.0 1730.0 1730.0 ± 0.6	0 0 0	0.5 0.5	203.0	141 ±50 140.0	(65 ±15) 63.0	GND= 3.4 ± 1.2	JENDL-2 JENDL-1.5 72RAHN+
1750.3 1750.3 1750.3 ± 0.6	0 0 0	0.5 0.5	71.4	8.4 ± 8.4 8.4	(65 ±15) 63.0	GND= 0.2 ± 0.2	JENDL-2 JENDL-1.5 72RAHN+
1806.9 1806.9 1806.9 ± 0.6	0 0 0	0.5 0.5	163.0	102 ±38 100.0	(65 ±15) 63.0	GND= 2.4 ± 0.9	JENDL-2 JENDL-1.5 72RAHN+
1875.6 1875.6 1875.6 ± 0.6	0 0 0	0.5 0.5	71.6	8.7 ± 4.3 8.6	(65 ±15) 63.0	GND= 0.2 ± 0.1	JENDL-2 JENDL-1.5 72RAHN+
1954.8 1954.8 1954.8 ± 0.7	0 0 0	0.5 0.5	453.0	388 ±49 390.0	(65 ±15) 63.0	GND= 8.8 ± 1.1	JENDL-2 JENDL-1.5 72RAHN+
1987.0 1987.0 1987.0 ± 1.0	0 0 0	0.5 0.5	76.0	13 ± 9 13.0	(65 ±15) 63.0	GND= 0.3 ± 0.2	JENDL-2 JENDL-1.5 72RAHN+
2046.6 2046.6 2046.6 ± 0.7	0 0 0	0.5 0.5	90.0	27 ± 9 27.0	(65 ±15) 63.0	GND= 0.6 ± 0.2	JENDL-2 JENDL-1.5 72RAHN+
2121.5 2121.5 2121.5 ± 0.7	0 0 0	0.5 0.5	913.0	852 ±92 850.0	(65 ±15) 63.0	GND= 18.5 ± 2.0	JENDL-2 JENDL-1.5 72RAHN+
2196.7 2196.7 2196.7 ± 0.8	0 0 0	0.5 0.5	72.0	9.4 ± 4.7 9.0	(65 ±15) 63.0	GND= 0.2 ± 0.1	JENDL-2 JENDL-1.5 72RAHN+
2237.1 2237.1 2237.1 ± 0.8	0 0 0	0.5 0.5	343.0	278 ±38 280.0	(65 ±15) 63.0	GND= 5.9 ± 0.8	JENDL-2 JENDL-1.5 72RAHN+
2310.5 2310.5 2310.5 ± 0.9	0 0 0	0.5 0.5	333.0	269 ±38 270.0	(65 ±15) 63.0	GND= 5.6 ± 0.8	JENDL-2 JENDL-1.5 72RAHN+
2367.8 2367.8 2367.8 ± 0.9	0 0 0	0.5 0.5	263.0	200 ±29 200.0	(65 ±15) 63.0	GND= 4.1 ± 0.6	JENDL-2 JENDL-1.5 72RAHN+
2392.5	0	0.5		181 ±29	(65 ±15)		JENDL-2

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
2392.5 2392.5 ± 0.9	0 0	0.5	243.0	180.0	63.0	GNO= 3.7 ± 0.6	JENDL-1.5 72RAHN+
2456.3 2456.3 2456.3 ± 1.0	0 0 0	0.5 0.5	463.0	401 ±40 400.0	(65 ±15) 63.0	GNO= 8.1 ± 0.8	JENDL-2 JENDL-1.5 72RAHN+
2490.0 2490.0 2490.0 ± 1.0	0 0 0	0.5 0.5	73.0	10 ± 5 10.0	(65 ±15) 63.0	GNO= 0.2 ± 0.1	JENDL-2 JENDL-1.5 72RAHN+
2522.0 2522.0 2522.0 ± 1.0	0 0 0	0.5 0.5	108.0	45 ±20 45.0	(65 ±15) 63.0	GNO= 0.9 ± 0.4	JENDL-2 JENDL-1.5 72RAHN+
2582.6 2582.6 2582.6 ± 1.0	0 0 0	0.5 0.5	213.0	152 ±30 150.0	(65 ±15) 63.0	GNO= 3.0 ± 0.6	JENDL-2 JENDL-1.5 72RAHN+
2648.5 2648.5 2648.5 ± 1.1	0 0 0	0.5 0.5	2328.0	2265 ±210 2265.0	(65 ±15) 63.0	GNO= 44.0 ± 4.0	JENDL-2 JENDL-1.5 72RAHN+
2656.9 2656.9 2656.9 ± 1.1	0 0 0	0.5 0.5	1253.0	1190 ±150 1190.0	(65 ±15) 63.0	GNO= 23.0 ± 3.0	JENDL-2 JENDL-1.5 72RAHN+
2695.8 2695.8 2695.8 ± 1.1	0 0 0	0.5 0.5	473.0	410 ±62 410.0	(65 ±15) 63.0	GNO= 7.9 ± 1.2	JENDL-2 JENDL-1.5 72RAHN+
2854.0 2854.0 2854.0 ± 2.0	0 0 0	0.5 0.5	95.0	32 ±11 32.0	(65 ±15) 63.0	GNO= 0.6 ± 0.2	JENDL-2 JENDL-1.5 72RAHN+
2912.1 2912.1 2912.1 ± 1.1	0 0 0	0.5 0.5	1413.0	1350 ±160 1350.0	(65 ±15) 63.0	GNO= 25.0 ± 3.0	JENDL-2 JENDL-1.5 72RAHN+
2925.0 2925.0 2925.0 ± 1.2	0 0 0	0.5 0.5	123.0	59 ±22 60.0	(65 ±15) 63.0	GNO= 1.1 ± 0.4	JENDL-2 JENDL-1.5 72RAHN+
2966.6 2966.6 2966.6 ± 1.2	0 0 0	0.5 0.5	523.0	458 ±71 460.0	(65 ±15) 63.0	GNO= 6.4 ± 1.3	JENDL-2 JENDL-1.5 72RAHN+
2985.5 2985.5 2985.5 ± 1.2	0 0 0	0.5 0.5	1263.0	1200 ±160 1200.0	(65 ±15) 63.0	GNO= 22.0 ± 3.0	JENDL-2 JENDL-1.5 72RAHN+
3030.7 3030.7 3030.7 ± 1.2	0 0 0	0.5 0.5	673.0	611 ±83 610.0	(65 ±15) 63.0	GNO= 11.1 ± 1.5	JENDL-2 JENDL-1.5 72RAHN+
3104.0 3104.0 3104.0 ± 2.0	0 0 0	0.5 0.5	243.0	178 ±99 180.0	(65 ±15) 63.0	GNO= 3.2 ± 0.7	JENDL-2 JENDL-1.5 72RAHN+
3157.9 3157.9 3157.9 ± 1.3	0 0 0	0.5 0.5	553.0	489 ±62 490.0	(65 ±15) 63.0	GNO= 6.7 ± 1.1	JENDL-2 JENDL-1.5 72RAHN+
3258.7 3258.7 3258.7 ± 1.3	0 0 0	0.5 0.5	613.0	548 ±69 550.0	(65 ±15) 63.0	GNO= 9.6 ± 1.2	JENDL-2 JENDL-1.5 72RAHN+
3288.2 3288.2 3288.2 ± 1.3	0 0 0	0.5 0.5	1153.0	1090 ±120 1090.0	(65 ±15) 63.0	GNO= 19.0 ± 2.1	JENDL-2 JENDL-1.5 72RAHN+
3315.5 3315.5 3315.5 ± 1.4	0 0 0	0.5 0.5	183.0	121 ±29 120.0	(65 ±15) 63.0	GNO= 2.1 ± 0.5	JENDL-2 JENDL-1.5 72RAHN+
3433.5 3433.5 3433.5 ± 1.4	0 0 0	0.5 0.5	1208.0	1140 ±120 1145.0	(65 ±15) 63.0	GNO= 19.5 ± 2.0	JENDL-2 JENDL-1.5 72RAHN+
3464.0 3464.0 3464.0 ± 1.4	0 0 0	0.5 0.5	513.0	447 ±70 450.0	(65 ±15) 63.0	GNO= 7.6 ± 1.2	JENDL-2 JENDL-1.5 72RAHN+
3512.0 3512.0 3512.0 ± 1.5	0 0 0	0.5 0.5	745.0	682 ±89 682.0	(65 ±15) 63.0	GNO= 11.5 ± 1.5	JENDL-2 JENDL-1.5 72RAHN+
3537.8 3537.8 3537.8 ± 1.5	0 0 0	0.5 0.5	2503.0	2440 ±300 2440.0	(65 ±15) 63.0	GNO= 41.0 ± 5.0	JENDL-2 JENDL-1.5 72RAHN+
3609.4 3609.4 3609.4 ± 1.6	0 0 0	0.5 0.5	193.0	132 ±42 130.0	(65 ±15) 63.0	GNO= 2.2 ± 0.7	JENDL-2 JENDL-1.5 72RAHN+
3665.0 3665.0 3665.0 ± 1.6	0 0 0	0.5 0.5	2363.0	2300 ±240 2300.0	(65 ±15) 63.0	GNO= 38.0 ± 4.0	JENDL-2 JENDL-1.5 72RAHN+
3826.6 3826.6 3826.6 ± 1.6	0 0 0	0.5 0.5	363.0	297 ±37 300.0	(65 ±15) 63.0	GNO= 4.8 ± 0.6	JENDL-2 JENDL-1.5 72RAHN+
3925.7 3925.7 3925.7 ± 1.7	0 0 0	0.5 0.5	753.0	689 ±88 690.0	(65 ±15) 63.0	GNO= 11.0 ± 1.4	JENDL-2 JENDL-1.5 72RAHN+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
4028.4 4028.4 4028.4 ± 1.7	0 0 0	0.5 0.5 0.5	443.0	381 ±51 380.0	(65 ±15) 63.0	GND= 6.0 ± 0.8	JENDL-2 JENDL-1.5 72RAHN+
4075.5 4075.5 4075.5 ± 1.8	0 0 0	0.5 0.5 0.5	283.0	217 ±51 220.0	(65 ±15) 63.0	GND= 3.4 ± 0.8	JENDL-2 JENDL-1.5 72RAHN+
4101.5 4101.5 4101.5 ± 1.8	0 0 0	0.5 0.5 0.5	825.0	762 ±103 762.0	(65 ±15) 63.0	GND= 11.9 ± 1.6	JENDL-2 JENDL-1.5 72RAHN+
4172.6 4172.6 4172.6 ± 1.9	0 0 0	0.5 0.5 0.5	4133.0	4070 ±390 4070.0	(65 ±15) 63.0	GND= 63.0 ± 6.0	JENDL-2 JENDL-1.5 72RAHN+
4215.3 4215.3 4215.3 ± 1.9	0 0 0	0.5 0.5 0.5	633.0	571 ±78 570.0	(65 ±15) 63.0	GND= 8.8 ± 1.2	JENDL-2 JENDL-1.5 72RAHN+
4320.3 4320.3 4320.3 ± 1.9	0 0 0	0.5 0.5 0.5	1073.0	1010 ±190 1010.0	(65 ±15) 63.0	GND= 15.4 ± 2.0	JENDL-2 JENDL-1.5 72RAHN+
4405.0 4405.0 4405.0 ± 2.0	0 0 0	0.5 0.5 0.5	123.0	60 ±27 60.0	(65 ±15) 63.0	GND= 0.9 ± 0.4	JENDL-2 JENDL-1.5 72RAHN+
4523.0 4523.0 4523.0 ± 2.0	0 0 0	0.5 0.5 0.5	473.0	410 ±61 410.0	(65 ±15) 63.0	GND= 6.1 ± 0.9	JENDL-2 JENDL-1.5 72RAHN+
4557.0 4557.0 4557.0 ± 2.0	0 0 0	0.5 0.5 0.5	443.0	378 ±61 380.0	(65 ±15) 63.0	GND= 5.8 ± 0.9	JENDL-2 JENDL-1.5 72RAHN+
4590.0 4590.0 4590.0 ± 2.0	0 0 0	0.5 0.5 0.5	343.0	278 ±47 280.0	(65 ±15) 63.0	GND= 4.1 ± 0.7	JENDL-2 JENDL-1.5 72RAHN+
4651.0 4651.0 4651.0 ± 2.0	0 0 0	0.5 0.5 0.5	623.0	559 ±61 560.0	(65 ±15) 63.0	GND= 8.2 ± 0.9	JENDL-2 JENDL-1.5 72RAHN+
4668.0 4668.0 4668.0 ± 2.0	0 0 0	0.5 0.5 0.5	1633.0	1570 ±140 1570.0	(65 ±15) 63.0	GND= 23.0 ± 2.0	JENDL-2 JENDL-1.5 72RAHN+
4725.0 4725.0 4725.0 ± 2.0	0 0 0	0.5 0.5 0.5	131.0	68 ±27 68.0	(65 ±15) 63.0	GND= 1.0 ± 0.4	JENDL-2 JENDL-1.5 72RAHN+
4777.0 4777.0 4777.0 ± 2.0	0 0 0	0.5 0.5 0.5	573.0	511 ±69 510.0	(65 ±15) 63.0	GND= 7.4 ± 1.0	JENDL-2 JENDL-1.5 72RAHN+
4923.0 4923.0 4923.0 ± 2.0	0 0 0	0.5 0.5 0.5	823.0	758 ±112 760.0	(65 ±15) 63.0	GND= 10.8 ± 1.6	JENDL-2 JENDL-1.5 72RAHN+
4946.0 4946.0 4946.0 ± 3.0	0 0 0	0.5 0.5 0.5	453.0	387 ±63 390.0	(65 ±15) 63.0	GND= 5.5 ± 0.9	JENDL-2 JENDL-1.5 72RAHN+
4985.0 4985.0 4985.0 ± 3.0	0 0 0	0.5 0.5 0.5	1688.0	1620 ±210 1625.0	(65 ±15) 63.0	GND= 23.0 ± 3.0	JENDL-2 JENDL-1.5 72RAHN+
5073.0 5073.0 5073.0 ± 3.0	0 0 0	0.5 0.5 0.5	2203.0	2140 ±280 2140.0	(65 ±15) 63.0	GND= 30.0 ± 4.0	JENDL-2 JENDL-1.5 72RAHN+
5100.0 5100.0 5100.0 ± 3.0	0 0 0	0.5 0.5 0.5	333.0	271 ±71 270.0	(65 ±15) 63.0	GND= 3.8 ± 1.0	JENDL-2 JENDL-1.5 72RAHN+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
-35	0	0.5		106	79	COM= M-L-B-W	JENDL-2
93.0 93.01 93.0 93.0 ± 0.1	0 0 0	0.5 0.5	210.0	139 ±19 139.0	(79 ±13) 71.0	GNO= 14.4 ± 2.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
261.1 261.1 261.0 261.1 ± 0.2	0 0 0	0.5 0.5	230.0	157 ±21 157.0	(79 ±13) 73.0	GNO= 9.7 ± 1.3	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
341.5 341.5 341.0 341.5 ± 0.3	0 0 0	0.5 0.5	80.0	15 ± 4 15.0	65 ±15 65.0	GNO= 0.8 ± 0.2	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
457.3 457.3 457.0 457.3 ± 0.4	0 0 0	0.5 0.5	190.0	160 ±19 100.0	90 ±25 90.0	GNO= 7.5 ± 0.9	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
578.0							68KARZHAVINA+
617.8 617.8 616.0 617.8 ± 0.5	0 0 0	0.5 0.5	260.0	174 ±17 175.0	(79 ±13) 85.0	GNO= 7.0 ± 0.7	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
704.7 704.7 703.0 704.7 ± 0.5	0 0 0	0.5 0.5	838.0	770 ±53 760.0	(79 ±13) 78.0	GNO= 29.0 ± 2.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
718.0							68KARZHAVINA+
828.7 828.7 828.0 828.7 ± 0.4	0 0 0	0.5 0.5	3178.0	3110 ±200 3100.0	(79 ±13) 78.0	GNO= 108.0 ± 7.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1075.5 1075.5 1077.0 1075.5 ± 0.5	0 0 0	0.5 0.5	92.5	13 ± 3 14.5	(79 ±13) 78.0	GNO= 0.4 ± 0.1	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1158.0							68KARZHAVINA+
1181.5 1181.1 1181.0 1181.5 ± 0.5	0 0 0	0.5 0.5	155.0	72 ± 3 72.0	83 ±23 83.0	GNO= 2.1 ± 0.1	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1187.7 1187.7 ± 0.7	0 0	0.5		10 ± 7	(79 ±13)	GNO= 0.3 ± 0.2	JENDL-2 72RAHN+
1244.0							68KARZHAVINA+
1282.9 1282.9 1280.0 1282.9 ± 0.7	0 0 0	0.5 0.5	610.0	509 ±96 510.0	(79 ±13) 100.0	GNO= 14.2 ± 1.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1472.1 1472.1 1470.0 1472.1 ± 0.8	0 0 0	0.5 0.5	788.0	710 ±98 710.0	(79 ±13) 78.0	GNO= 18.5 ± 1.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1556.0 1556.0 1552.0 1556.0 ± 1.0	0 0 0	0.5 0.5	2058.0	1970 ±120 1980.0	(79 ±13) 78.0	GNO= 50.0 ± 3.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1610.0							68KARZHAVINA+
1647.0 1647.0 1650.0 1647.0 ± 1.0	0 0 0	0.5 0.5	3098.0	3000 ±80 3020.0	(79 ±13) 78.0	GNO= 74.0 ± 2.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1734.0 1734.0 1734.0 1734.0 ± 0.5	0 0 0	0.5 0.5	158.0	79 ±12 80.0	(79 ±13) 78.0	GNO= 1.9 ± 0.3	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1788.8 1788.8 1788.0 1788.8 ± 0.6	0 0 0	0.5 0.5	670.0	572 ±25 570.0	(79 ±13) 100.0	GNO= 13.6 ± 0.6	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
1847.8 1847.8 1835.0 1847.8 ± 0.6	0 0 0	0.5 0.5	1668.0	1580 ±85 1580.0	(79 ±13) 78.0	GNO= 37.0 ± 2.0	JENDL-2 JENDL-1.5 68KARZHAVINA+ 72RAHN+
2056.5 2056.5 2056.5 ± 0.7	0 0 0	0.5 0.5	228.0	150 ±32 150.0	(79 ±13) 78.0	GNO= 3.3 ± 0.7	JENDL-2 JENDL-1.5 72RAHN+
2106.9 2106.9 2106.9 ± 0.7	0 0 0	0.5 0.5	2528.0	2430 ±140 2450.0	(79 ±13) 78.0	GNO= 53.0 ± 3.0	JENDL-2 JENDL-1.5 72RAHN+
2243.0 2243.0 ± 1.5	0 0	0.5		71 ±40	(79 ±13)	GNO= 1.5 ± 0.8	JENDL-2 72RAHN+
2452.2	0	0.5		1340 ±150	(79 ±13)		JENDL-2

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
2452.2 2452.2 ± 0.8	0 0	0.5	1398.0	1320.0	78.0	GND= 27.0 ± 3.0	JENDL-1.5 72RAHN+
2492.0 2492.0 2492.0 ± 0.9	0 0 0	0.5 0.5	134.0	55 ±10 55.0	(79 ±13) 78.0	GND= 1.1 ± 0.2	JENDL-2 JENDL-1.5 72RAHN+
2529.5 2529.5 2529.5 ± 1.0	0 0 0	0.5 0.5	2643.0	2565 ±755 2565.0	(79 ±13) 78.0	GND= 51.0 ±15.0	JENDL-2 JENDL-1.5 72RAHN+
2834.1 2834.1 2834.1 ± 1.0	0 0 0	0.5 0.5	270.0	192 ±32 192.0	(79 ±13) 78.0	GND= 3.6 ± 0.6	JENDL-2 JENDL-1.5 72RAHN+
2862.7 2862.7 2862.7 ± 1.1	0 0 0	0.5 0.5	148.0	70 ±11 70.0	(79 ±13) 78.0	GND= 1.3 ± 0.2	JENDL-2 JENDL-1.5 72RAHN+
2987.8 2987.8 2987.8 ± 1.2	0 0 0	0.5 0.5	1498.0	1420 ±165 1420.0	(79 ±13) 78.0	GND= 25.0 ± 3.0	JENDL-2 JENDL-1.5 72RAHN+
3046.8 3046.8 3046.8 ± 1.2	0 0 0	0.5 0.5	1513.0	1435 ±165 1435.0	(79 ±13) 78.0	GND= 26.0 ± 3.0	JENDL-2 JENDL-1.5 72RAHN+
3540.7 3540.7 3540.7 ± 1.4	0 0 0	0.5 0.5	258.0	179 ±77 180.0	(79 ±13) 78.0	GND= 3.0 ± 1.3	JENDL-2 JENDL-1.5 72RAHN+
4060.5 4060.5 4060.5 ± 1.7	0 0 0	0.5 0.5	668.0	593 ±83 590.0	(79 ±13) 78.0	GND= 9.3 ± 1.3	JENDL-2 JENDL-1.5 72RAHN+
4213.0 4213.0 4213.0 ± 1.8	0 0 0	0.5 0.5	3453.0	3375 ±520 3375.0	(79 ±13) 78.0	GND= 52.0 ± 8.0	JENDL-2 JENDL-1.5 72RAHN+
4415.0 4415.0 4415.0 ± 2.0	0 0 0	0.5 0.5	3888.0	3790 ±530 3790.0	(79 ±13) 78.0	GND= 57.0 ± 8.0	JENDL-2 JENDL-1.5 72RAHN+
4550.0 4550.0 4550.0 ± 2.0	0 0 0	0.5 0.5	498.0	418 ±67 420.0	(79 ±13) 78.0	GND= 6.2 ± 1.0	JENDL-2 JENDL-1.5 72RAHN+
4757.0 4757.0 4757.0 ± 2.0	0 0 0	0.5 0.5	2358.0	2280 ±280 2280.0	(79 ±13) 78.0	GND= 33.0 ± 4.0	JENDL-2 JENDL-1.5 72RAHN+
4920.0 4920.0 4920.0 ± 2.0	0 0 0	0.5 0.5	1903.0	1825 ±210 1825.0	(79 ±13) 78.0	GND= 26.0 ± 3.0	JENDL-2 JENDL-1.5 72RAHN+
5075.0 5075.0 5075.0 ± 3.0	0 0 0	0.5 0.5	1306.0	1230 ±170 1230.0	(79 ±13) 78.0	GND= 17.3 ± 2.4	JENDL-2 JENDL-1.5 72RAHN+

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
-3.61-3 -.000+1 -0.0006 -.000+1±0.00002	0 0	3.0 3.0	95.7064 95.8 ± 0.01	4.617 6.437-3	95.7 95.7	S = 84000.0	JENDL-2 JENDL-1.5 55HOLT 71POORTHANS+
0.32 0.321 0.327± 0.001 0.321± 0.001 0.32 0.32	0 0	3.0 3.0	79.5714 86.0 ± 2.0 79.6 ± 2.0	0.071± 0.002 0.0714 0.088± 0.004 0.083± 0.002	79.5 ± 0.2 79.5 79.5 ± 0.20	S = 4040.0 ±100.0 S = 4250.0 ±60.0 WGH= 0.0735± 0.002	JENDL-2 JENDL-1.5 54SRILOR+ 61TRASSAN+ 64STOLOVY 71VERTEBNY+
0.46 0.461 0.461± 0.001 0.46 ± 0.001 0.46 0.459± 0.002	0 0	3.0 3.0	87.666 96.0 ± 2.0 0.088± 0.002	0.665± 0.002 0.666 0.790± 0.02 0.776± 0.02	87.0 ± 2.0 87.0 87.0 ± 2.0	S = 23230.0±200.0 S = 24906.0±200.0 WGH= 0.572± 0.015	JENDL-2 JENDL-1.5 54SRILOR+ 61TRASSAN+ 64STOLOVY 71VERTEBNY+
1.05 1.055 1.055± 0.005 1.055 1.055± 0.003 1.05 1.063± 0.007 1.05 ± 0.005	0 0	3.0 3.0	85.183 105.0 ±10.0	0.19 ± 0.05 0.183 0.28 ± 0.04	(93 ±10) 85.0	S = 3100.0 ±150.0 S = 330 ±60.0 WGH= 0.135± 0.025 S = 3190.0 ±90.0 WGH= 0.107± 0.0025	JENDL-2 JENDL-1.5 54SRILOR+ 57HARVEY+ 59DOMANIC+ 64STOLOVY 71VERTEBNY+ 72RAHN+
1.83 1.832 1.84 ± 0.02 1.8 ± 0.05 1.815± 0.007 1.83 ± 0.01	0 0	2.5 2.5	88.0338	0.027± 0.008 0.0338	(93 ±10) 88.0	S = 25.0 ± 3.0 WGH= 0.0175± 0.002	JENDL-2 JENDL-1.5 57HARVEY+ 59DOMANIC+ 71VERTEBNY+ 72RAHN+
2.523± 0.025							71VERTEBNY+
2.71 2.717 2.73 ± 0.05 2.73 2.717± 0.005 2.74 ± 0.03 2.71 ± 0.01	0 0	2.5 2.5	93.24	0.26 ± 0.03 0.24 0.08	97.0 ± 5.0 93.0	G2S= 3.8 ± 1.5 S = 130.0 ±30.0 WGH= 0.135± 0.030 S = 1190.0 ±35.0 WGH= 0.07 ± 0.005	JENDL-2 JENDL-1.5 54SRILOR+ 57HARVEY+ 59DOMANIC+ 71VERTEBNY+ 72RAHN+
3.36 3.366 3.35 ± 0.01 3.35 3.366± 0.006 3.37 3.383± 0.01 3.36 ± 0.01	0 0	2.0 2.0	95.2	1.10 ± 0.22 2.2 3.44	97.0 ± 6.0 93.0	G2S= 113.0 ±12.0 S = 1300.0 ±300.0 WGH= 1.70 ± 0.4 S = 7640.0 ±75.0 WGH= 0.50 ± 0.025	JENDL-2 JENDL-1.5 54SRILOR+ 57HARVEY+ 59DOMANIC+ 64STOLOVY 71VERTEBNY+ 72RAHN+
3.71 3.71 3.72 3.71 ± 0.006 3.735± 0.012 3.71 ± 0.01	0 0	2.5 2.5	93.79	0.81 ± 0.12 0.79	89.0 ± 6.0 93.0	S = 210.0 ±100.0 WGH= 0.3 ± 0.15 S = 2930.0 ±50.0 WGH= 0.205± 0.01	JENDL-2 JENDL-1.5 57HARVEY+ 59DOMANIC+ 71VERTEBNY+ 72RAHN+
4.78 4.78 4.84 4.85 ± 0.05 4.804± 0.017 4.78 ± 0.01	0 0	2.5 2.5	86.15	0.17 ± 0.02 0.15	(93 ±10) 88.0	WGH= 0.025± 0.01 S = 23.0 ±14.0 WGH= 0.045± 0.025	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 57HARVEY+ 71VERTEBNY+ 72RAHN+
5.38 5.38 5.47 5.47 5.45 ± 0.05 5.408± 0.02 5.38 ± 0.01	0 0	2.5 2.5	108.17	0.19 ± 0.02 0.17	108.0 ±12.0 108.0	WGH= 0.0285± 0.0048 S = 60.0 ±20.0 WGH= 0.125± 0.035	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 57HARVEY+ 59DOMANIC+ 71VERTEBNY+ 72RAHN+
5.98 5.98 6.03 6.05 5.98 ± 0.05 6.038± 0.024 5.98 ± 0.01	0 0	2.5 2.5	100.34	0.34 ± 0.05 0.34	100.0 ±15.0 100.0	WGH= 0.07 ± 0.01 S = 100.0 ±30.0 WGH= 0.235± 0.075	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 57HARVEY+ 59DOMANIC+ 71VERTEBNY+ 72RAHN+
7.05 7.05 7.0 ± 0.1 7.09 ± 0.015 7.05 ± 0.02	0 0	2.5 2.5	88.53	0.05 ± 0.05 0.53	(92 ±10) 88.0	WGH= 0.01 ± 0.01	JENDL-2 JENDL-1.5 59DOMANIC+ 71VERTEBNY+ 72RAHN+
7.29 7.29	0 0	2.5 2.5	90.19	2.21 ± 0.32 2.19	88.0 ±12.0 88.0		JENDL-2 JENDL-1.5

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
7.36 ± 0.03 7.24 7.24				7.82		Q25= 126.0 ±15.0 WGH= 0.445± 0.09 S = 320.0 ±100.0 WGH= 0.90 ± 0.30	54SAILOR+ 56ZIMMERMAN+ 57HARVEY+
7.25 ± 0.05 7.289± 0.032 7.29 ± 0.02	0				88.0 ±12.0	WGH= 0.41 ± 0.06	5900MANIC+ 71VERTEBNY+ 72RAHN+
7.44 7.44 7.47 7.47	0 0	2.5 2.5	85.88	1.69 ± 0.27 1.88	85.0 ± 9.0 85.0	WGH= 0.44 ± 0.09 S = 370.0 ±110.0 WGH= 1.05 ± 0.35	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 57HARVEY+
7.43 ± 0.05 7.448± 0.032 7.44 ± 0.02	0				85.0 ± 9.0	WGH= 0.31 ± 0.05	5900MANIC+ 71VERTEBNY+ 72RAHN+
7.645± 0.033							71VERTEBNY+
7.886± 0.036							71VERTEBNY+
8.846± 0.042							71VERTEBNY+
9.07 9.07 9.08 9.0 ± 0.1	0 0	2.5 2.5	105.02	1.08 ± 0.12 1.02	104.0 ±12.0 104.0	WGH= 0.165± 0.04 S = 120.0 ±50.0 WGH= 0.40 ± 0.15	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 57HARVEY+
9.06 ± 0.05 9.102± 0.043 9.07 ± 0.02	0				104.0 ±12.0	WGH= 0.18 ± 0.02	5900MANIC+ 71VERTEBNY+ 72RAHN+
10.47 10.47 10.5 10.514± 0.054 10.47 ± 0.03	0 0 0	2.5 2.5	92.97	2.07 ± 0.19 1.97	91.0 ± 9.0 91.0	WGH= 0.295± 0.02	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
	0				91.0 ± 9.0	WGH= 0.32 ± 0.03	
10.94 10.94 10.94 ± 0.03	0 0 0	2.5 2.5	98.66	0.66 ± 0.07 0.66	98.0 ±11.0 98.0 98.0 ±11.0	WGH= 0.1 ± 0.01	JENDL-2 JENDL-1.5 72RAHN+
11.1 11.26 ± 0.06 11.23 ± 0.04						WGH= 0.075± 0.03	56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
12.23 12.23 12.3 12.28 ± 0.07 12.23 ± 0.04	0 0 0	2.5 2.5	88.93	0.91 ± 0.07 0.93	88.0 ± 9.0 88.0	WGH= 0.17 ± 0.03	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
	0				88.0 ± 9.0	WGH= 0.13 ± 0.01	
12.64 12.65 12.7 12.7 ± 0.07 12.64 ± 0.04	0 0 0	2.5 2.5	90.38	2.4 ± 0.2 2.38	88.0 ± 7.0 88.0	WGH= 0.31 ± 0.06	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
	0				88.0 ± 7.0	WGH= 0.34 ± 0.03	
13.66 13.66 13.8 13.69 ± 0.08 13.66 ± 0.05	0 0 0	2.5 2.5	115.44	0.44 ± 0.07 0.44	115.0 ±12.0 115.0	WGH= 0.027± 0.015	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
	0				115.0 ±12.0	WGH= 0.06 ± 0.01	
14.76 14.76 14.8 14.89 ± 0.08 14.76 ± 0.05	0 0 0	2.5 2.5	77.92	1.92 ± 0.08 1.92	76.0 ± 9.0 76.0	WGH= 0.245± 0.035	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
	0				76.0 ± 9.0	WGH= 0.25 ± 0.01	
15.18 15.18 15.2 15.27 ± 0.1 15.18 ± 0.05	0 0 0	2.5 2.5	81.1	2.03 ± 0.23 2.1	79.0 ± 9.0 79.0	WGH= 0.285± 0.04	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
	0				79.0 ± 9.0	WGH= 0.26 ± 0.03	
17.75 17.75 17.8 17.82 ± 0.12 17.75 ± 0.05	0 0 0	2.5 2.5	105.35	1.95 ± 0.08 1.95	104.0 ±11.0 104.0	WGH= 0.18 ± 0.05	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
	0				104.0 ±11.0	WGH= 0.16 ± 0.01	
19.1 19.1 19.3 19.22 ± 0.13 19.1 ± 0.07	0 0 0	2.5 2.5	137.98	5.16 ± 0.44 4.98	133.0 ±19.0 133.0	WGH= 0.49 ± 0.095	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
	0				133.0 ±19.0	WGH= 0.59 ± 0.05	
19.7 ± 0.07							72RAHN+
21.0 ± 0.07							72RAHN+
21.3 ± 0.07							72RAHN+
21.69 21.69 21.87 ± 0.16 21.69 ± 0.07	0 0 0	2.5 2.5	83.94	1.96 ± 0.19 1.94	82.0 ±12.0 82.0	WGH= 0.21 ± 0.02	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
	0				82.0 ±12.0		
22.21 22.21 22.0 22.37 ± 0.17 22.21 ± 0.08	0 0 0	2.5 2.5	68.83	2.8 ± 0.4 2.83	66.0 ±15.0 66.0	WGH= 0.31 ± 0.075	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
	0				66.0 ±15.0	WGH= 0.3 ± 0.04	
22.75	0	2.5		1.53 ± 0.10	89.0 ± 9.0		JENDL-2

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
22.75 22.8 22.88 ± 0.17 22.75 ± 0.08	0 0	2.5	90.53	1.53	89.0	WGH= 0.2 ± 0.1 WGH= 0.16 ± 0.01	JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
24.25 ± 0.09							72RAHN+
24.58 24.58 24.5 24.58 ± 0.09	0 0 0	2.5	106.93	6.4 ± 0.6 7.93	99.0 ± 10.0 99.0	WGH= 1.01 ± 0.3 WGH= 0.85 ± 0.06	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 72RAHN+
25.17 25.17 25.2 25.17 ± 0.11	0 0 0	2.5	88.6	0.6 ± 0.2 0.6	(93 ± 10) 88.0	WGH= 0.50 ± 0.15 WGH= 0.06 ± 0.02	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 72RAHN+
25.6 25.6 25.6 ± 0.11	0 0	2.5	89.51	0.5 ± 0.2 0.51	89.0 ± 17.0 89.0 89.0 ± 17.0	WGH= 0.05 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
26.22 ± 0.12							72RAHN+
26.72 26.72 26.72 ± 0.12	0 0 0	2.5	85.03	7.0 ± 0.6 7.03	78.0 ± 10.0 78.0 78.0 ± 10.0	WGH= 0.68 ± 0.06	JENDL-2 JENDL-1.5 72RAHN+
27.43 27.43 27.0 27.5 ± 0.1 27.43 ± 0.12	0 0 0	2.5	97.63	0.63 ± 0.11 0.63	97.0 ± 8.0 97.0	WGH= 0.65 ± 0.15 WGH= 0.06 ± 0.01	JENDL-2 JENDL-1.5 56ZIMMERMAN+ 71VERTEBNY+ 72RAHN+
27.75 ± 0.12							72RAHN+
28.09 28.09 28.09 ± 0.12	0 0 0	2.5	90.32	0.32 ± 0.11 0.32	90.0 ± 15.0 90.0 90.0 ± 15.0	WGH= 0.03 ± 0.01	JENDL-2 JENDL-1.5 72RAHN+
29.23 29.23 29.41 ± 0.26 29.23 ± 0.05	0 0 0	2.5	83.54	4.5 ± 0.3 4.54	79.0 ± 11.0 79.0	WGH= 0.42 ± 0.03	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
30.22 30.22 30.45 ± 0.27 30.22 ± 0.05	0 0 0	2.5	89.62	3.6 ± 0.3 3.62	86.0 ± 6.0 86.0	WGH= 0.33 ± 0.03	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
30.81 30.81 30.81 ± 0.06	0 0	2.5	99.67	0.67 ± 0.11 0.67	99.0 ± 14.0 99.0 99.0 ± 14.0	WGH= 0.06 ± 0.01	JENDL-2 JENDL-1.5 72RAHN+
31.59 31.59 31.83 ± 0.28 31.59 ± 0.06	0 0 0	2.5	98.69	1.69 ± 0.11 1.69	97.0 ± 7.0 97.0	WGH= 0.15 ± 0.01	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
32.65 ± 0.06							72RAHN+
33.51 33.51 33.61 ± 0.31 33.51 ± 0.06	0 0 0	2.5	88.46	0.46 ± 0.16 0.46	(93 ± 10) 88.0	WGH= 0.04 ± 0.01	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
33.88 ± 0.06							72RAHN+
34.57 34.57 34.57 ± 0.06	0 0 0	2.5	88.35	0.35 ± 0.12 0.35	(93 ± 10) 88.0	WGH= 0.03 ± 0.01	JENDL-2 JENDL-1.5 72RAHN+
35.05 35.05 35.22 ± 0.33 35.05 ± 0.07	0 0 0	2.5	93.2	3.2 ± 0.4 3.2	90.0 ± 8.0 90.0	WGH= 0.27 ± 0.03	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
36.09 36.09 36.09 ± 0.07	0 0 0	2.5	83.05	5.05 ± 0.36 5.05	78.0 ± 8.0 78.0 78.0 ± 8.0	WGH= 0.42 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
36.46 ± 0.23							71VERTEBNY+
37.01 37.01 37.3 ± 0.36 37.01 ± 0.07	0 0 0	2.5	83.6	5.6 ± 0.4 5.6	78.0 ± 9.0 78.0	WGH= 0.46 ± 0.03	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
37.78 37.78 37.78 ± 0.07	0 0 0	2.5	95.4399	3.44 ± 0.25 3.44	92.0 ± 7.0 92.0 92.0 ± 7.0	WGH= 0.26 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
39.2 39.2 39.2 ± 0.07	0 0 0	2.5	89.0	1.0 ± 0.4 1.0	(93 ± 10) 88.0	WGH= 0.08 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
39.37 39.37 39.57 ± 0.37 39.37 ± 0.07	0 0 0	2.5	83.02	4.0 ± 0.6 4.02	79.0 ± 9.0 79.0	WGH= 0.32 ± 0.05	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
39.94 39.94 39.94 ± 0.08	0 0 0	2.5	80.26	1.26 ± 0.13 1.26	79.0 ± 9.0 79.0 79.0 ± 9.0	WGH= 0.1 ± 0.01	JENDL-2 JENDL-1.5 72RAHN+
40.42 ± 0.08							72RAHN+
41.35	0	2.5		27 ± 3	80.0 ± 13.0		JENDL-2

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
41.35 41.62 ± 0.42 41.35 ± 0.08	0 0 0	2.5 2.5	107.01	27.01	80.0	WGH= 2.1 ± 0.23	JENDL-1.5 71VERTEBNY+ 72RAHN+
42.12 42.12 42.12 ± 0.09	0 0 0	2.5 2.5	89.04	1.0 ± 0.4 1.04	(93 ±10) 88.0	WGH= 0.06 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
43.19 43.19 43.39 ± 0.45 43.19 ± 0.09	0 0 0 0	2.5 2.5	89.65	5.65 ± 0.39 5.65	84.0 ± 9.0 84.0	WGH= 0.43 ± 0.03	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
44.43 44.43 44.43 ± 0.09	0 0 0	2.5 2.5	92.6	3.6 ± 0.4 3.6	89.0 ± 8.0 89.0 89.0 ± 8.0	WGH= 0.27 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
45.42 45.42 45.42 ± 0.1	0 0 0	2.5 2.5	100.42	1.35 ± 0.27 1.42	99.0 ±18.0 99.0 99.0 ±18.0	WGH= 0.1 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
46.41 46.41 46.41 ± 0.1	0 0 0	2.5 2.5	95.36	10.4 ± 3.0 10.36	85.0 ±19.0 85.0 85.0 ±19.0	WGH= 0.76 ± 0.22	JENDL-2 JENDL-1.5 72RAHN+
47.24 47.04 47.26 ± 0.51 47.24 ± 0.11	0 0 0 0	2.5 2.5	116.01	17.0 ± 2.1 17.01	99.0 ±12.0 99.0	WGH= 1.24 ± 0.15	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
48.75 ± 0.13							72RAHN+
49.23 ± 0.14							72RAHN+
50.04 50.04 50.04 ± 0.15	0 0 0	2.5 2.5	88.99	0.99 ± 0.42 0.99	(93 ±10) 88.0	WGH= 0.07 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
50.58 50.58 50.58 ± 0.12	0 0 0	2.5 2.5	125.04	23.0 ± 2.0 23.04	102.0 ±11.0 102.0 102.0 ±11.0	WGH= 1.62 ± 0.14	JENDL-2 JENDL-1.5 72RAHN+
51.1 ± 0.58 51.61 ± 0.12							71VERTEBNY+ 72RAHN+
52.41 52.41 52.88 ± 0.6 52.41 ± 0.12	0 0 0 0	2.5 2.5	92.05	4.1 ± 1.0 4.05	(93 ±10) 88.0	WGH= 0.28 ± 0.07	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
52.7 52.7 52.7 ± 0.12	0 0 0	2.5 2.5	84.79	4.8 ± 1.0 4.79	80.0 ±15.0 80.0 80.0 ±15.0	WGH= 0.33 ± 0.07	JENDL-2 JENDL-1.5 72RAHN+
53.25 53.25 53.25 ± 0.13	0 0 0	2.5 2.5	88.88	0.88 ± 0.15 0.88	(93 ±10) 88.0	WGH= 0.06 ± 0.01	JENDL-2 JENDL-1.5 72RAHN+
53.94 53.94 53.94 ± 0.14	0 0 0	2.5 2.5	92.55	4.6 ± 0.3 4.55	88.0 ±10.0 88.0 88.0 ±10.0	WGH= 0.31 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
54.9 ± 0.14							72RAHN+
55.26 55.26 55.26 ± 0.07	0 0 0	2.5 2.5	99.87	3.9 ± 0.3 3.87	96.0 ± 9.0 96.0 96.0 ± 9.0	WGH= 0.26 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
56.18 56.18 56.18 ± 0.07	0 0 0	2.5 2.5	101.45	3.4 ± 0.3 3.45	98.0 ± 9.0 98.0 98.0 ± 9.0	WGH= 0.23 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
57.36 57.36 57.36 ± 0.07	0 0 0	2.5 2.5	101.93	18.9 ± 1.7 18.93	83.0 ± 9.0 83.0 83.0 ± 9.0	WGH= 1.25 ± 0.11	JENDL-2 JENDL-1.5 72RAHN+
58.85 58.85 58.14 ± 0.7 58.85 ± 0.08	0 0 0 0	2.5 2.5	114.44	6.4 ± 0.6 6.44	108.0 ±11.0 108.0 108.0 ±11.0	WGH= 0.42 ± 0.04	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
60.85 60.85 60.85 ± 0.08	0 0 0	2.5 2.5	101.77	5.8 ± 0.6 5.77	96.0 ± 9.0 96.0 96.0 ± 9.0	WGH= 0.37 ± 0.04	JENDL-2 JENDL-1.5 72RAHN+
62.41 62.41 62.41 ± 0.08	0 0 0	2.5 2.5	89.95	3.95 ± 0.47 3.95	86.0 ± 8.0 86.0 86.0 ± 8.0	WGH= 0.25 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
63.19 63.91 63.8 ± 0.4 63.19 ± 0.09	0 0 0 0	2.5 2.5	102.56	2.54 ± 0.48 2.56	100.0 ±11.0 100.0 100.0 ±11.0	WGH= 0.16 ± 0.03	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
67.91 67.91 68.51 ± 0.9 67.91 ± 0.1	0 0 0 0	2.5 2.5	118.0	18.0 ± 0.8 18.0	100.0 ±10.0 100.0 100.0 ±10.0	WGH= 1.09 ± 0.05	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
69.09 69.09 69.09 ± 0.1	0 0 0	2.5 2.5	89.0	1.0 ± 0.3 1.0	(93 ±10) 88.0	WGH= 0.06 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
70.75 70.75 70.75 ± 0.1	0 0 0	2.5 2.5	82.54	4.54 ± 0.68 4.54	78.0 ±10.0 78.0 78.0 ±10.0	WGH= 0.27 ± 0.04	JENDL-2 JENDL-1.5 72RAHN+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
71.41 71.41 71.41 ± 0.1	0 0 0	2.5 2.5	90.08	6.1 ± 0.7 6.08	84.0 ± 10.0 84.0 84.0 ± 10.0	WGH= 0.36 ± 0.04	JENDL-2 JENDL-1.5 72RAHN+
72.41 72.41 72.41 ± 1.0 72.41 ± 0.11	0 0 0 0	2.5 2.5	95.21	2.2 ± 0.5 2.21	93.0 ± 11.0 93.0 93.0 ± 11.0	WGH= 0.13 ± 0.02	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
73.33 73.33 73.33 ± 0.11	0 0 0	2.5 2.5	89.2	1.2 ± 0.3 1.2	(93 ± 10) 88.0	WGH= 0.07 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
74.16 74.16 74.16 ± 0.11	0 0 0	2.5 2.5	89.5	1.6 ± 0.3 1.6	(93 ± 10) 88.0	WGH= 0.09 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
75.76 75.76 75.76 ± 0.11	0 0 0	2.5 2.5	94.18	4.2 ± 0.5 4.18	90.0 ± 11.0 90.0 90.0 ± 11.0	WGH= 0.24 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
77.45 77.45 77.45 ± 0.12	0 0 0	2.5 2.5	106.8	6.6 ± 0.5 6.6	99.0 ± 10.0 98.0 99.0 ± 10.0	WGH= 0.5 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
78.05 78.05 78.05 ± 0.12	0 0 0	2.5 2.5	88.53	0.53 ± 0.35 0.53	(93 ± 10) 88.0	WGH= 0.03 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
78.66 78.66 78.66 ± 0.12	0 0 0	2.5 2.5	90.03	17.0 ± 1.6 17.03	73.0 ± 9.0 73.0 73.0 ± 9.0	WGH= 0.96 ± 0.09	JENDL-2 JENDL-1.5 72RAHN+
79.51 79.51 79.51 ± 0.12	0 0 0	2.5 2.5	69.53	5.5 ± 0.7 5.53	64.0 ± 13.0 64.0 64.0 ± 13.0	WGH= 0.31 ± 0.04	JENDL-2 JENDL-1.5 72RAHN+
80.29 80.29 80.29 ± 0.12	0 0 0	2.5 2.5	89.24	8.2 ± 1.0 8.24	81.0 ± 10.0 81.0 81.0 ± 10.0	WGH= 0.46 ± 0.06	JENDL-2 JENDL-1.5 72RAHN+
81.08 81.08 81.08 ± 1.11 81.08 ± 0.13	0 0 0 0	2.5 2.5	124.95	24.0 ± 2.0 23.95	101.0 ± 13.0 101.0 101.0 ± 13.0	WGH= 1.33 ± 0.11	JENDL-2 JENDL-1.5 71VERTEBNY+ 72RAHN+
83.07 83.07 83.07 ± 0.13	0 0 0	2.5 2.5	98.28	3.3 ± 0.4 3.28	95.0 ± 11.0 95.0 95.0 ± 11.0	WGH= 0.18 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
84.0 84.0 84.0 ± 0.13	0 0 0	2.5 2.5	113.85	14.8 ± 0.7 14.85	99.0 ± 12.0 99.0 99.0 ± 12.0	WGH= 0.81 ± 0.04	JENDL-2 JENDL-1.5 72RAHN+
85.67 85.67 85.67 ± 0.14	0 0 0	2.5 2.5	88.81	4.8 ± 0.6 4.81	84.0 ± 18.0 84.0 84.0 ± 18.0	WGH= 0.26 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
87.7 87.7 87.7 ± 0.14	0 0 0	2.5 2.5	89.31	1.3 ± 0.4 1.31	(93 ± 10) 88.0	WGH= 0.07 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
88.63 88.63 88.63 ± 0.14	0 0 0	2.5 2.5	89.13	1.1 ± 0.4 1.13	(93 ± 10) 88.0	WGH= 0.06 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
89.34 89.34 89.34 ± 0.15	0 0 0	2.5 2.5	118.56	14.6 ± 0.6 14.56	104.0 ± 13.0 104.0 104.0 ± 13.0	WGH= 0.77 ± 0.04	JENDL-2 JENDL-1.5 72RAHN+
90.18 90.18 90.18 ± 0.15	0 0 0	2.5 2.5	89.94	4.9 ± 0.6 4.94	85.0 ± 14.0 85.0 85.0 ± 14.0	WGH= 0.26 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
91.13 91.13 91.13 ± 0.15	0 0 0	2.5 2.5	98.77	4.8 ± 0.6 4.77	94.0 ± 11.0 94.0 94.0 ± 11.0	WGH= 0.25 ± 0.03	JENDL-2 JENDL-1.5 72RAHN+
93.36 93.36 93.36 ± 0.15	0 0 0	2.5 2.5	140.02	28.0 ± 1.9 28.02	112.0 ± 13.0 112.0 112.0 ± 13.0	WGH= 1.45 ± 0.1	JENDL-2 JENDL-1.5 72RAHN+
96.29 96.29 96.29 ± 0.16	0 0 0	2.5 2.5	130.45	16.4 ± 2.0 16.45	112.0 ± 13.0 112.0 112.0 ± 13.0	WGH= 0.94 ± 0.1	JENDL-2 JENDL-1.5 72RAHN+
97.7 97.7 97.7 ± 0.16	0 0 0	2.5 2.5	89.98	2.0 ± 0.2 1.98	(93 ± 10) 88.0	WGH= 0.1 ± 0.02	JENDL-2 JENDL-1.5 72RAHN+
98.61 98.61 98.61 ± 0.16	0 0 0	2.5 2.5	123.49	15.5 ± 9.9 15.49	108.0 ± 13.0 108.0 108.0 ± 13.0	WGH= 0.78 ± 0.05	JENDL-2 JENDL-1.5 72RAHN+
109.9 ± 1.8							71VERTEBNY+

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ENERGY (EV)	L	J	NEUTRON WIDTH (MILLI-EV)	G*(R N-WIDTH) (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
-0.1	0	3.0	0.265		(160)		JENDL-2
0.884± 0.001 0.884± 0.001	0	3.0	0.214± 0.004	0.114± 0.002 0.114± 0.002	122 ± 4 122 ± 4		JENDL-2 77VERTEBNY+
1.19						COM= UNCERTN	77VERTEBNY+
1.343± 0.004 1.343± 0.004	0	3.0	0.167± 0.009	0.072± 0.004 0.072± 0.004	216 ±13 216 ±13		JENDL-2 77VERTEBNY+
1.633± 0.006 1.633± 0.006	0	3.0	0.089± 0.013	0.035± 0.005 0.035± 0.005	137 ±25 137 ±25		JENDL-2 77VERTEBNY+
1.867± 0.003 1.867± 0.003	0	3.0	0.549± 0.016	0.200± 0.006 0.200± 0.006	197 ± 8 197 ± 8		JENDL-2 77VERTEBNY+
2.78						COM= UNCRTN	77VERTEBNY+
3.21 3.21	0	3.0	(0.00)	(0.00)	(160)		JENDL-2 77VERTEBNY+
3.55 ± 0.02 3.55 ± 0.02	0	3.0	0.678± 0.075	0.18 ± 0.02 0.18 ± 0.02	270 ±50 270 ±50		JENDL-2 77VERTEBNY+
4.13 ± 0.01 4.13 ± 0.01	0	3.0	0.447± 0.041	0.11 ± 0.01 0.11 ± 0.01	180 ±20 180 ±20		JENDL-2 77VERTEBNY+
4.92 ± 0.01 4.92 ± 0.01	0	3.0	0.244± 0.022	0.055± 0.005 0.055± 0.005	80 ±15 80 ±15		JENDL-2 77VERTEBNY+
5.60 ± 0.01 5.60 ± 0.01	0	3.0	0.227± 0.024	0.048± 0.005 0.048± 0.005	90 ±20 90 ±20		JENDL-2 77VERTEBNY+
6.07						COM= UNCERTN	77VERTEBNY+
6.35 ± 0.01 6.35 ± 0.01	0	3.0	0.630± 0.050	0.125± 0.010 0.125± 0.010	130 ±20 130 ±20		JENDL-2 77VERTEBNY+
6.74 ± 0.01 6.74 ± 0.01	0	3.0	0.623	0.12 0.12	150 ±25 150 ±25		JENDL-2 77VERTEBNY+
7.08						COM= UNCERTN	77VERTEBNY+
7.55						COM= UNCERTN	77VERTEBNY+
8.12						COM= UNCERTN	77VERTEBNY+
9.61 ± 0.01 9.61 ± 0.01	0	3.0	2.23	0.36 0.36	215 215		JENDL-2 77VERTEBNY+
9.94 ± 0.01 9.94 ± 0.01	0	3.0	0.757	0.12 0.12	118 118		JENDL-2 77VERTEBNY+
10.22							77VERTEBNY+
10.86						COM= UNCERTN	77VERTEBNY+
11.27							77VERTEBNY+
13.00							77VERTEBNY+
15.78							77VERTEBNY+
17.16							77VERTEBNY+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
-0.5	0	2.5		0.317	(96 ±10)		JENDL-2
0.457	0	2.5		0.010± 0.003	(96 ±10)		JENDL-2
0.457	0	2.5	94.0095	0.0095	94.0		JENDL-1
0.54			75			S = 2000.0	4680RST+
0.457± 0.005			0.057± 0.01	0.010± 0.003		S = 490.0 ±50.0	58PATTENDEN
1.73	0	2.5		0.050± 0.002	91.0 ± 9.0		JENDL-2
1.728	0	2.5	93.057	0.057	93.0		JENDL-1
1.76						S = 48.0 ± 4.0	54WOOD
1.76						WGH= 0.0245± 0.0023	57HARVEY+
1.725± 0.005	0		93.0 ± 5.0		92.0 ± 5.0	S = 450.0 ±25.0	59DOMANIC+
1.73 ± 0.01	0				91.0 ± 9.0	WGH= 0.022	72RAHN+
1.728			87 ± 5			WGH= 0.02 ± 0.002	79ANUFRIEV+
2.46	0	3.0		0.97 ± 0.02	(96 ±10)		JENDL-2
2.457	0	3.0	92.11	1.11	91.0		JENDL-1
2.47						S = 510.0 ±100.0	54WOOD
2.46						WGH= 0.0306± 0.0638	57HARVEY+
2.456± 0.005	0		94.0 ± 2.0		92.0 ± 2.0	S = 7548.0 ±75.0	59DOMANIC+
2.46						WGH= 0.475	64STOLOVY
2.46 ± 0.01	0	3				WGH= 0.35 ± 0.02	72RAHN+
2.450			88 ± 5			WGH= 0.73 ± 0.03	79ANUFRIEV+
3.29	0	2.5		0.77 ± 0.06	(96 ±10)		JENDL-2
3.293	0	2.5	96.92	0.92	96.0		JENDL-1
3.28 ± 0.03						S = 290.0 ±50.0	57HARVEY+
3.294± 0.006	0		96.0 ± 3.0		95.0 ± 3.0	WGH= 0.1601± 0.0331	59DOMANIC+
3.29 ± 0.01	0					S = 3943.0 ±50.0	72RAHN+
3.302			101 ± 5			WGH= 0.264	79ANUFRIEV+
3.94	0	2.5		1.05 ± 0.03	94.0 ± 5.0		JENDL-2
3.942	0	2.5	98.1	1.1	97.0		JENDL-1
3.64						S = 280.0 ±60.0	54WOOD
3.94						WGH= 0.2141± 0.0453	57HARVEY+
3.944± 0.008	0		101.0 ± 3.0		100.0 ± 3.0	S = 3642.0 ±40.0	59DOMANIC+
3.94 ± 0.01	0				94.0 ± 5.0	WGH= 0.28	72RAHN+
3.905			90 ± 3			WGH= 0.27 ± 0.02	79ANUFRIEV+
4.75	0	2.5		0.05 ± 0.03	(96 ±10)		JENDL-2
4.75	1	2.5	94.061	0.061	94.0		JENDL-1
4.75 ± 0.05						WGH= 0.04 ± 0.015	56ZIMMERMAN+
4.88 ± 0.05						S = 14.0 ± 8.0	57HARVEY+
4.75 ± 0.01	0					WGH= 0.0113±0.00679	72RAHN+
4.77			91 ± 4			WGH= 0.02 ± 0.005	79ANUFRIEV+
6.16	0	2.5		0.63 ± 0.01	109.0 ±10.0		JENDL-2
6.16	0	2.5	119.68	0.68	119.0		JENDL-1
6.25						WGH= 0.08 ± 0.015	54WOOD
6.25						S = 160.0 ±40.0	56ZIMMERMAN+
6.16 ± 0.02	0		131.0 ± 4.0		130.0 ± 4.0	WGH= 0.160± 0.04	57HARVEY+
6.16 ± 0.02	0				109.0 ±10.0	S = 1130.0 ±30.0	59DOMANIC+
6.16			101 ± 6			WGH= 0.14	72RAHN+
						WGH= 0.13 ± 0.01	79ANUFRIEV+
7.6 ± 0.1						S = 28.0 ±17.0	57HARVEY+
						WGH= 0.0290± 0.0161	
8.85	0	2.5		3.5 ± 0.1	114.0 ±11.0		JENDL-2
8.86	0	2.5	107.72	3.72	104.0		JENDL-1
8.98						WGH= 0.54 ± 0.15	54WOOD
8.92						S = 650.0 ±200.0	56ZIMMERMAN+
8.9						WGH= 0.7974± 0.2346	57HARVEY+
8.87 ± 0.03	0		105.0 ± 5.0		101.0 ± 5.0	S = 5324.0 ±60.0	59DOMANIC+
8.86 ± 0.02	0				114.0 ±11.0	WGH= 0.635	72RAHN+
8.85			88 ± 8			WGH= 0.57 ± 0.05	79ANUFRIEV+
11.61	0	2.5		4.01 ± 0.15	96.0 ±10.0		JENDL-2
11.62	0	2.5	99.92	3.92	96.0		JENDL-1
11.7 ± 0.1						WGH= 0.54 ± 0.04	56ZIMMERMAN+
11.61 ± 0.03	0				96.0 ±10.0	WGH= 0.65 ± 0.06	72RAHN+
11.61			94 ± 5			WGH= 1.16 ± 0.04	79ANUFRIEV+
12.45	0	2.5		0.141± 0.003	90.0 ±25.0		JENDL-2
12.45	1	2.5	90.16	0.16	90.0		JENDL-1
12.45 ± 0.04	0				90.0 ±25.0	WGH= 0.02 ± 0.001	72RAHN+
12.42			76 ±10			WGH= 0.034± 0.011	79ANUFRIEV+
13.22	0	2.5		0.32 ± 0.01	(96 ±10)		JENDL-2
13.22	1	2.5	94.32	0.32	94.0		JENDL-1
13.3						WGH= 0.0275± 0.015	56ZIMMERMAN+
13.22 ± 0.04	0					WGH= 0.05 ± 0.01	72RAHN+
13.22			90 ± 5			WGH= 0.088± 0.003	79ANUFRIEV+
15.26	0	2.5		0.30 ± 0.05	(96 ±10)		JENDL-2
15.26	1	2.5	94.42	0.42	94.0		JENDL-1
15.26 ± 0.05	0					WGH= 0.05 ± 0.01	72RAHN+
15.25			110 ± 9			WGH= 0.069± 0.008	79ANUFRIEV+
16.33	0	2.5		0.024± 0.008	(96 ±10)		JENDL-2
16.33	1	2.5	94.03	0.03	94.0		JENDL-1
16.3						WGH= 0.0295± 0.01	56ZIMMERMAN+
16.33 ± 0.05	0					WGH= 0.004± 0.002	72RAHN+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
16.33			90 ±10			WGO= 0.004 ± 0.002	79ANUFRIEV+
16.73	0	2.5		1.35 ± 0.04	89.0 ±15.0		JENDL-2
16.73	0	2.5	90.47	1.47	89.0		JENDL-1
16.8						WGH= 0.135 ± 0.025	56ZIMMERMAN+
16.73 ± 0.05	0				89.0 ±15.0	WGH= 0.17 ± 0.04	72RAHN+
16.88			110 ±10			WGO= 0.33 ± 0.002	79ANUFRIEV+
17.6	0	2.5		0.46 ± 0.02	(96 ±10)		JENDL-2
17.6	1	2.5	94.59	0.59	94.0		JENDL-1
17.6 ± 0.06	0					WGH= 0.07 ± 0.05	72RAHN+
17.52			90 ±17			WGO= 0.11 ± 0.01	79ANUFRIEV+
18.01	0	2.5		4.24 ± 0.16	92.0 ±15.0		JENDL-2
18.01	0	2.5	96.71	4.71	92.0		JENDL-1
18.1						WGH= 0.41 ± 0.1	56ZIMMERMAN+
18.01 ± 0.06	0				92.0 ±15.0	WGH= 0.59 ± 0.05	72RAHN+
17.95			90 ± 7			WGO= 0.99 ± 0.02	79ANUFRIEV+
18.73	0	2.5		2.82 ± 0.05	100.0 ±11.0		JENDL-2
18.73	0	2.5	103.25	3.25	100.0		JENDL-1
18.8						WGH= 0.45 ± 0.09	56ZIMMERMAN+
18.73 ± 0.07	0				100.0 ±11.0	WGH= 0.35 ± 0.05	72RAHN+
18.88			147 ±18			WGO= 0.65 ± 0.02	79ANUFRIEV+
20.02	0	2.5		9.5 ± 0.2	101.0 ±16.0		JENDL-2
20.02	0	2.5	109.8	9.8	100.0		JENDL-1
20.1						WGH= 1.3 ±001.5	56ZIMMERMAN+
20.02 ± 0.07	0				101.0 ±16.0	WGH= 1.05 ± 0.07	72RAHN+
19.95			124 ±17			WGO= 2.17 ± 0.23	79ANUFRIEV+
21.1						WGH= 0.065 ± 0.02	56ZIMMERMAN+
22.54	0	2.5		2.4 ± 0.3	84.0 ±12.0		JENDL-2
22.54	0	2.5	87.04	3.04	84.0		JENDL-1
22.6						WGH= 0.05 ± 0.1	56ZIMMERMAN+
22.54 ± 0.08	0				84.0 ±12.0	WGH= 0.29 ± 0.04	72RAHN+
22.56			91 ±14			WGO= 0.44 ± 0.05	79ANUFRIEV+
23.66	0	2.5		2.8 ± 0.1	86.0 ±12.0		JENDL-2
23.66	0	2.5	89.72	2.72	87.0		JENDL-1
24.1						WGH= 0.305 ± 0.075	56ZIMMERMAN+
23.66 ± 0.09	0				86.0 ±12.0	WGH= 0.27 ± 0.04	72RAHN+
23.59			91 ±17			WGO= 0.59 ± 0.08	79ANUFRIEV+
26.19	0	2.5		0.28 ± 0.06	(96 ±10)		JENDL-2
26.19	1	2.5	94.3	0.3	94.0		JENDL-1
26.19 ± 0.2	0					WGH= 0.03 ± 0.01	72RAHN+
26.2			90 ±10			WGO= 0.03 ± 0.02	79ANUFRIEV+
28.63	0	2.5		1.70 ± 0.07	79.0 ±15.0		JENDL-2
28.63	1	2.5	79.82	1.82	78.0		JENDL-1
28.63 ± 0.12	0				79.0 ±15.0	WGH= 0.17 ± 0.01	72RAHN+
28.65			67 ±13			WGO= 0.31 ± 0.01	79ANUFRIEV+
29.9	0	2.5		0.29 ± 0.05	(96 ±10)		JENDL-2
29.9	1	2.5	94.3	0.3	94.0		JENDL-1
29.9 ± 0.05	0					WGH= 0.03 ± 0.01	72RAHN+
29.9			90 ±10			WGO= 0.04 ± 0.02	79ANUFRIEV+
31.21	0	2.5		2.27 ± 0.15	118.0 ±13.0		JENDL-2
31.21	0	2.5	120.35	2.35	118.0		JENDL-1
31.21 ± 0.06	0				118.0 ±13.0	WGH= 0.21 ± 0.02	72RAHN+
31.2			116 ±10			WGO= 0.35 ± 0.07	79ANUFRIEV+
32.45	0	2.5		0.23 ± 0.11	(96 ±10)		JENDL-2
32.45	1	2.5	94.28	0.28	94.0		JENDL-1
32.45 ± 0.06	0					WGH= 0.02 ± 0.01	72RAHN+
33.05 ± 0.06							72RAHN+
34.53	0	2.5		5.17 ± 0.59	90.0 ±12.0		JENDL-2
34.53	0	2.5	95.17	5.17	90.0		JENDL-1
34.53 ± 0.06	0				90.0 ±12.0	WGH= 0.44 ± 0.05	72RAHN+
36.62	0	2.5		4.24 ± 0.61	106.0 ±14.0		JENDL-2
36.62	0	2.5	110.24	4.24	106.0		JENDL-1
36.62 ± 0.07	0				106.0 ±14.0	WGH= 0.35 ± 0.05	72RAHN+
37.76	0	2.5		4.42 ± 0.61	94.0 ±12.0		JENDL-2
37.76	0	2.5	98.42	4.42	94.0		JENDL-1
37.76 ± 0.07	0				94.0 ±12.0	WGH= 0.36 ± 0.05	72RAHN+
38.3	0	2.5		5.94 ± 0.37	81.0 ±11.0		JENDL-2
38.3	0	2.5	86.94	5.94	81.0		JENDL-1
38.3 ± 0.07	0				81.0 ±11.0	WGH= 0.48 ± 0.03	72RAHN+
41.15	0	2.5		1.41 ± 0.13	69.0 ±20.0		JENDL-2
41.15	1	2.5	70.48	1.48	69.0		JENDL-1
41.15 ± 0.08	0				69.0 ±20.0	WGH= 0.11 ± 0.01	72RAHN+
42.15	0	2.5		4.8 ± 0.7	77.0 ±14.0		JENDL-2
42.15	0	2.5	81.8	4.8	77.0		JENDL-1
42.15 ± 0.09	0				77.0 ±14.0	WGH= 0.37 ± 0.05	72RAHN+
43.16	0	2.5		3.15 ± 0.39	96.0 ± 9.0		JENDL-2
43.16	1	2.5	99.15	3.15	96.0		JENDL-1
43.16 ± 0.09	0				96.0 ± 9.0	WGH= 0.24 ± 0.03	72RAHN+
44.82	0	2.5		0.67 ± 0.14	(96 ±10)		JENDL-2
44.82	1	2.5	94.7	0.7	94.0		JENDL-1
44.82 ± 0.09	0					WGH= 0.05 ± 0.01	72RAHN+
45.79	0	2.5		1.35 ± 0.14	99.0 ±15.0		JENDL-2
45.79	1	2.5	100.35	1.35	99.0		JENDL-1
45.79 ± 0.1	0				99.0 ±15.0	WGH= 0.1 ± 0.01	72RAHN+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
47.11 47.11 47.11 ± 0.1	0 1 0	2.5 2.5	96.06	2.06 ± 0.141 2.06	94.0 ± 11.0 94.0 94.0 ± 11.0	WGH= 0.15 ± 0.01	JENDL-2 JENDL-1 72RAHN+
47.93 47.93 47.93 ± 0.11	0 0 0	2.5 2.5	100.29	6.23 ± 0.42 6.23	(96 ± 10) 94.0	WGH= 0.45 ± 0.03	JENDL-2 JENDL-1 72RAHN+
49.3 49.3 49.3 ± 0.11	0 1 0	2.5 2.5	94.14	0.14 ± 0.14 0.14	(96 ± 10) 94.0	WGH= 0.01 ± 0.01	JENDL-2 JENDL-1 72RAHN+
49.5 49.5 49.5 ± 0.11	0 1 0	2.5 2.5	94.28	0.28 ± 0.14 0.28	(96 ± 10) 94.0	WGH= 0.02 ± 0.01	JENDL-2 JENDL-1 72RAHN+
50.0 50.0 50.0 ± 0.12	0 1 0	2.5 2.5	94.97	2.97 ± 0.28 2.97	92.0 ± 8.0 92.0 92.0 ± 8.0	WGH= 0.21 ± 0.02	JENDL-2 JENDL-1 72RAHN+
50.74 50.74 50.74 ± 0.12	0 0 0	2.5 2.5	120.41	7.41 ± 0.57 7.41	113.0 ± 14.0 113.0 113.0 ± 14.0	WGH= 0.52 ± 0.04	JENDL-2 JENDL-1 72RAHN+
52.31 52.31 52.31 ± 0.13	0 0 0	2.5 2.5	120.15	12.2 ± 0.9 12.15	108.0 ± 15.0 108.0 108.0 ± 15.0	WGH= 0.84 ± 0.06	JENDL-2 JENDL-1 72RAHN+
53.07 53.07 53.07 ± 0.14	0 1 0	2.5 2.5	121.77	2.77 ± 0.44 2.77	119.0 ± 14.0 119.0 119.0 ± 14.0	WGH= 0.19 ± 0.03	JENDL-2 JENDL-1 72RAHN+
54.29 54.29 54.29 ± 0.14	0 0 0	2.5 2.5	106.38	12.4 ± 0.7 12.38	(96 ± 10) 94.0	WGH= 0.84 ± 0.05	JENDL-2 JENDL-1 72RAHN+
55.19 55.19 55.19 ± 0.07	0 1 0	2.5 2.5	94.26	0.30 ± 0.15 0.26	85.0 ± 20.0 94.0 95.0 ± 20.0	WGH= 0.02 ± 0.01	JENDL-2 JENDL-1 72RAHN+
55.57 55.57 55.57 ± 0.07	0 1 0	2.5 2.5	95.94	1.94 ± 0.15 1.94	(86 ± 10) 94.0	WGH= 0.13 ± 0.01	JENDL-2 JENDL-1 72RAHN+
58.4 ± 0.08							72RAHN+
58.97 58.97 58.97 ± 0.08	0 1 0	2.5 2.5	86.23	1.23 ± 0.15 1.23	85.0 ± 9.0 85.0 85.0 ± 9.0	WGH= 0.08 ± 0.01	JENDL-2 JENDL-1 72RAHN+
59.72 59.72 59.72 ± 0.08	0 1 0	2.5 2.5	104.78	2.78 ± 0.31 2.78	102.0 ± 15.0 102.0 102.0 ± 15.0	WGH= 0.18 ± 0.02	JENDL-2 JENDL-1 72RAHN+
60.92 60.92 60.92 ± 0.08	0 0 0	2.5 2.5	110.0	32.0 ± 2.0 32.0	78.0 ± 14.0 78.0 78.0 ± 14.0	WGH= 2.05 ± 0.13	JENDL-2 JENDL-1 72RAHN+
62.55 62.55 62.55 ± 0.08	0 1 0	2.5 2.5	110.22	5.22 ± 0.63 5.22	105.0 ± 13.0 105.0 105.0 ± 13.0	WGH= 0.33 ± 0.04	JENDL-2 JENDL-1 72RAHN+
63.7 63.7 63.7 ± 0.09	0 0 0	2.5 2.5	100.34	7.34 ± 0.60 7.34	93.0 ± 20.0 93.0 93.0 ± 20.0	WGH= 0.46 ± 0.05	JENDL-2 JENDL-1 72RAHN+
64.09 64.09 64.09 ± 0.09	0 0 0	2.5 2.5	129.92	13.9 ± 1.0 13.92	116.0 ± 15.0 118.0 116.0 ± 15.0	WGH= 0.87 ± 0.06	JENDL-2 JENDL-1 72RAHN+
65.25 ± 0.09							72RAHN+
65.9 ± 0.09							72RAHN+
66.94 66.94 66.94 ± 0.09	0 1 0	2.5 2.5	89.76	3.76 ± 0.65 3.76	86.0 ± 17.0 86.0 86.0 ± 17.0	WGH= 0.23 ± 0.04	JENDL-2 JENDL-1 72RAHN+
68.15 68.15 68.15 ± 0.1	0 1 0	2.5 2.5	92.12	5.12 ± 0.66 5.12	87.0 ± 12.0 87.0 87.0 ± 12.0	WGH= 0.31 ± 0.04	JENDL-2 JENDL-1 72RAHN+
70.04 70.04 70.04 ± 0.1	0 1 0	2.5 2.5	103.01	3.01 ± 0.33 3.01	100.0 ± 14.0 100.0 100.0 ± 14.0	WGH= 0.18 ± 0.02	JENDL-2 JENDL-1 72RAHN+
71.35 71.35 71.35 ± 0.1	0 1 0	2.5 2.5	95.18	1.18 ± 0.17 1.18	(96 ± 10) 94.0	WGH= 0.07 ± 0.01	JENDL-2 JENDL-1 72RAHN+
73.68 73.68 73.68 ± 0.11	0 1 0	2.5 2.5	94.34	0.34 ± 0.17 0.34	(96 ± 10) 94.0	WGH= 0.02 ± 0.01	JENDL-2 JENDL-1 72RAHN+
75.47 75.47 75.47 ± 0.11	0 1 0	2.5 2.5	94.52	0.52 ± 0.35 0.52	(96 ± 10) 94.0	WGH= 0.03 ± 0.02	JENDL-2 JENDL-1 72RAHN+
76.93 76.93 76.93 ± 0.11	0 0 0	2.5 2.5	119.38	14.4 ± 0.5 14.38	105.0 ± 13.0 105.0 105.0 ± 13.0	WGH= 0.82 ± 0.03	JENDL-2 JENDL-1 72RAHN+
80.29 80.29 80.29 ± 0.12	0 1 0	2.5 2.5	107.84	4.84 ± 0.54 4.84	103.0 ± 19.0 103.0 103.0 ± 19.0	WGH= 0.27 ± 0.03	JENDL-2 JENDL-1 72RAHN+
81.24	0	2.5		3.97 ± 0.54	96.0 ± 14.0		JENDL-2

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ENERGY (eV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
81.24 81.24 ± 0.13	1 0	2.5	99.97	3.97	96.0 96.0 ± 14.0	WDH= 0.22 ± 0.03	JENDL-1 72RAHN+
82.99 82.99 82.99 ± 0.13	0 1 0	2.5 2.5	89.64	3.64 ± 0.54 3.64	86.0 ± 9.0 86.0 86.0 ± 9.0	WDH= 0.2 ± 0.03	JENDL-2 JENDL-1 72RAHN+
84.0 84.0 84.0 ± 0.13	0 1 0	2.5 2.5	94.73	0.73 ± 0.65 0.73	(96 ± 10) 94.0	WDH= 0.04 ± 0.03	JENDL-2 JENDL-1 72RAHN+
86.99 86.99 86.99 ± 0.14	0 0 0	2.5 2.5	80.31	12.3 ± 0.6 12.31	88.0 ± 6.0 88.0 88.0 ± 6.0	WDH= 0.66 ± 0.03	JENDL-2 JENDL-1 72RAHN+
87.7 87.7 87.7 ± 0.14	0 1 0	2.5 2.5	109.87	4.87 ± 0.37 4.87	105.0 ± 16.0 105.0 105.0 ± 16.0	WDH= 0.26 ± 0.02	JENDL-2 JENDL-1 72RAHN+
89.34 89.34 89.34 ± 0.15	0 1 0	2.5 2.5	95.32	1.32 ± 0.38 1.32	(96 ± 10) 94.0	WDH= 0.07 ± 0.02	JENDL-2 JENDL-1 72RAHN+
90.76 90.76 90.76 ± 0.15	0 1 0	2.5 2.5	83.19	4.19 ± 0.38 4.19	79.0 ± 13.0 79.0 79.0 ± 13.0	WDH= 0.22 ± 0.02	JENDL-2 JENDL-1 72RAHN+
92.01 ± 0.15							72RAHN+
92.8 92.8 92.8 ± 0.15	0 1 0	2.5 2.5	96.31	2.31 ± 1.16 2.31	(96 ± 10) 94.0	WDH= 0.12 ± 0.06	JENDL-2 JENDL-1 72RAHN+
93.26 93.26 93.26 ± 0.15	0 0 0	2.5 2.5	129.91	41.9 ± 4.1 41.91	88.0 ± 20.0 88.0 88.0 ± 20.0	WDH= 2.17 ± 0.21	JENDL-2 JENDL-1 72RAHN+
94.76 94.76 94.76 ± 0.15	0 1 0	2.5 2.5	94.78	0.78 ± 0.39 0.78	(96 ± 10) 94.0	WDH= 0.04 ± 0.02	JENDL-2 JENDL-1 72RAHN+
95.15 95.15 95.15 ± 0.15	0 1 0	2.5 2.5	96.34	2.34 ± 0.20 2.34	(96 ± 10) 94.0	WDH= 0.12 ± 0.01	JENDL-2 JENDL-1 72RAHN+
96.86 96.86 96.86 ± 0.16	0 1 0	2.5 2.5	98.95	2.95 ± 0.96 2.95	(96 ± 10) 94.0	WDH= 0.15 ± 0.05	JENDL-2 JENDL-1 72RAHN+
97.6 97.6 97.6 ± 0.16	0 0 0	2.5 2.5	127.01	26.1 ± 5.9 26.01	101.0 ± 15.0 101.0 101.0 ± 15.0	WDH= 1.32 ± 0.3	JENDL-2 JENDL-1 72RAHN+

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ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
0.188 0.188	0	3.0	160 ±15	0.068 ± 0.032	160 ±15	WGO= 0.157 ± 0.032	JENDL-2 79ANUFRIEV+
0.842 0.842	0	3.0	126 ±12	0.092 ± 0.009	126 ±12	WGO= 0.035 ± 0.003	JENDL-2 79ANUFRIEV+
1.372 1.372	0	3.0	108 ± 5	0.30 ± 0.02	108 ± 5	WGO= 0.26 ± 0.02	JENDL-2 79ANUFRIEV+
2.81						COM= UNCERTN	77VERTEBNY+
3.51 3.63 3.51	0	3.0	115 ±15	0.19 ± 0.04	115 ±15	COM= UNCERTN WGO= 0.10 ± 0.02	JENDL-2 77VERTEBNY+ 79ANUFRIEV+
4.14 4.47 4.14	0	3.0	130 ±20	0.55 ± 0.04	129 ±20	WGO= 0.27 ± 0.02	JENDL-2 77VERTEBNY+ 79ANUFRIEV+
5.22 5.23 5.22	0	3.0	140 ± 6	0.41 ± 0.02	140 ± 6	WGO= 0.18 ± 0.01	JENDL-2 77VERTEBNY+ 79ANUFRIEV+
5.63 5.63	0	3.0	127 ±10	0.26 ± 0.01	127 ±10	WGO= 0.110 ± 0.005	JENDL-2 79ANUFRIEV+
6.65 6.65	0	3.0	100	0.026	100	WGO= 0.01	JENDL-2 79ANUFRIEV+
6.82 6.87 6.82	0	3.0	162 ± 8	1.23 ± 0.08	151 ± 8	WGO= 0.47 ± 0.03	JENDL-2 77VERTEBNY+ 79ANUFRIEV+
9.32 9.32	0	3.0	108 ±10	2.7 ± 0.3	105 ±10	WGO= 0.86 ± 0.09	JENDL-2 79ANUFRIEV+
9.48 9.41 9.48	0	3.0	113 ± 9	1.75 ± 0.18	111 ± 9	WGO= 0.57 ± 0.06	JENDL-2 77VERTEBNY+ 79ANUFRIEV+
10.70 10.70	0	3.0	108 ±15	0.39 ± 0.07	108 ±15	WGO= 0.12 ± 0.02	JENDL-2 79ANUFRIEV+
10.95 11.0 10.95	0	3.0	115 ±10	0.56 ± 0.07	114 ±10	WGO= 0.17 ± 0.02	JENDL-2 77VERTEBNY+ 79ANUFRIEV+
12.54 12.54	0	3.0	175 ±22	0.99 ± 0.14	174 ±22	WGO= 0.26 ± 0.04	JENDL-2 79ANUFRIEV+
13.68 13.7 13.68	0	3.0	117 ±20	0.63 ± 0.05	116 ±20	WGO= 0.170 ± 0.013	JENDL-2 77VERTEBNY+ 79ANUFRIEV+
15.97 15.97	0	3.0	100 ±21	0.38 ± 0.05	100 ±21	WGO= 0.095 ± 0.012	JENDL-2 79ANUFRIEV+
21.07 21.07	0	3.0	135 ±18	4.2 ± 0.2	131 ±18	WGO= 0.91 ± 0.04	JENDL-2 79ANUFRIEV+
22.17 22.17	0	3.0	145 ±20	2.8 ± 0.2	142 ±20	WGO= 0.59 ± 0.04	JENDL-2 79ANUFRIEV+
25.10 25.10	0	3.0	120 ±30	1.1 ± 0.1	119 ±30	WGO= 0.22 ± 0.02	JENDL-2 79ANUFRIEV+
27.30 27.30	0	3.0	96 ± 7	0.63 ± 0.05	96 ± 7	WGO= 0.12 ± 0.01	JENDL-2 79ANUFRIEV+

A.39 Europium-155

ENERGY (EV)	L	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	2σ*(R N-WIDTH) (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	REFERENCE
-0.5	0	2.5		1.15		96	JENDL-2
0.602 0.602 0.603± 0.001	0	2.5	90 ± 6	4.14 ± 0.80	4.30 ± 1.03 5.88 ± 0.02	87 ± 6 96 ± 1	JENDL-2 79ANUFRIEV+ 79VERTEVNYI+
2.04 2.04	0	2.5	100	0.046	0.032	100	JENDL-2 79ANUFRIEV+
7.19 7.19	0	2.5	100	0.21	0.078	100	JENDL-2 79ANUFRIEV+
15.48 15.48	0	2.5	100 ± 9	5.86 ± 0.43	1.49 ± 0.11	94 ± 9	JENDL-2 79ANUFRIEV+
20.70 20.70	0	2.5	110 ± 18	14.0 ± 0.68	3.08 ± 0.15	96 ± 18	JENDL-2 79ANUFRIEV+
26.2 26.2	0	2.5	100	3.28	0.64	97	JENDL-2 79ANUFRIEV+
33.10 33.10	0	2.5	100 ± 20	80.0 ± 13.8	13.9 ± 2.4	40 ± 20	JENDL-2 79ANUFRIEV+