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EVALUATION OF NEUTRON NUCLEAR DATA
OF ^{241}Pu FOR JENDL-2

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Evaluation of Neutron Nuclear Data of ^{241}Pu for JENDL-2

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Neutron nuclear data of ^{241}Pu were newly evaluated for JENDL-2. Evaluated quantities are the total, elastic and inelastic scattering, fission, capture, (n,2n), (n,3n) and (n,4n) reaction cross sections, the resolved and unresolved resonance parameters, the angular and energy distributions of emitted neutrons, and the average number of neutrons emitted per fission. The simultaneous evaluation method was adopted for the fission cross section so as to keep the consistency among the main fissile and fertile material nuclides. The theoretical calculations based on the spherical optical model and the statistical model were also used, when the experimental data were not sufficient. Discussion is given on the evaluation method.

Keywords : Plutonium-241, JENDL-2, Resonance Parameters, Simultaneous Evaluation, Spherical Optical Model, Statistical Model

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JENDL-2 のための²⁴¹Pu の中性子核データ評価

日本原子力研究所東海研究所物理部

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(1984年5月25日受理)

JENDL-2 のために²⁴¹Pu の中性子核データを新しく評価した。評価した量は、全断面積、弾性および非弾性散乱、核分裂、捕獲、(n,2n)、(n,3n)、(n,4n) 反応の各断面積、分離および非分離共鳴パラメータ、放出中性子の角度およびエネルギー分布、核分裂当りの平均放出中性子数である。核分裂断面積に対しては、主な核分裂性および親物質核種間の統一性を図るため同時評価を行った。実験値の乏しい場合には、球形光学模型や統計模型に基く理論計算を行った。また評価方法についても検討を行った。

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1. Introduction

Neutron nuclear data of ^{241}Pu are required to predict various characteristics of fast reactors, particularly at the high burn-up stage. Hence a new evaluation was made by Kikuchi¹⁾ for the first version of Japanese Evaluated Nuclear Data Library (JENDL-1)²⁾ in 1975.

JENDL-1 is the first standard evaluated nuclear data library in Japan and provides data for 72 nuclides from 10^{-5} eV to 15 MeV. As JENDL-1 aimed mainly at the fast reactor calculation, the evaluation was rather rough in the thermal and resonance regions. Furthermore, some drawbacks were pointed out through the benchmark tests³⁾ of JENDL-1 for both the heavy and structural material nuclides.

Under such a situation, the second version of JENDL (JENDL-2) was planned in 1976. JENDL-2 aims at wider application, such as the thermal reactor, shielding and fusion neutronics calculations. Hence the number of nuclides to be evaluated was enlarged to 176 (including 99 fission product nuclides), and the maximum energy was extended to 20 MeV. Taking account of the results of benchmark tests on JENDL-1 data, it was decided to make a complete reevaluation for the main fissile and fertile material nuclides including ^{241}Pu .

The entire compilation of JENDL-2 was scheduled to be completed in 1981. At the first stage of compilation, however, the highest priority was put to evaluation of the most important nuclides for fast reactors: ^{235}U , ^{238}U , ^{239}Pu , ^{240}Pu , ^{241}Pu , Cr, Fe and Ni. This decision was made responding to an urgent request to use JENDL-2 for analyses in the JUPITER project⁴⁾, joint USA-Japan mock-up experiments of large fast reactors using the ZPPR facility. The evaluation of the eight nuclides was completed in November 1979. Since then a combined library consisting of JENDL-2 for the eight nuclides and of JENDL-1 for the

others has been widely used for fast reactor calculations as JENDL-2B library*. Results of various benchmark tests⁵⁾ have proved the reliability of JENDL-2.

As to ^{241}Pu , only the resonance parameters, cross sections and angular distributions (files 2,3 and 4) were supplied to JENDL-2B with the data of ENDF/B-IV for files 1 and 5. After that the energy distributions of the secondary neutrons (file 5) and values pertaining to fission (file 1) were evaluated. Final data were released in December 1982.

This is the final report concerning the evaluation of neutron nuclear data of ^{241}Pu for JENDL-2. Details of the evaluation method are described as well as the experimental data on which the evaluation was based. The obtained results are compared with those of JENDL-1 and ENDF/B-IV. The problems encountered in the present work are discussed, and the subjects for future work are pointed out. A list of the numerical data in the ENDF/B format is given in Appendix.

* The nuclear data of the other important nuclides such as ^{10}B , C, Na, Al and Si were not changed from JENDL-1 to JENDL-2. Hence the JENDL-2B library is essentially the pure JENDL-2 library.

2. Thermal Cross Sections

The cross sections below 1 eV are given as point-wise data, since the cross sections cannot be reproduced from the present resonance parameters as precisely as required from the thermal reactor calculations. The total and fission cross sections were evaluated by the eye-guide method mainly on the basis of the data measured by Smith and Young⁶⁾ and by Wagemans and Deruytter⁷⁾, respectively. The elastic scattering cross section was calculated from the resonance parameters by using the effective scattering radius of 10.0 fm, which was determined considering the 2200 m/s value recommended by Lemmel⁸⁾. The capture cross section was obtained by subtracting the fission and elastic scattering cross sections from the total cross section, as the numerical data of Weston and Todd⁹⁾ were not available at the time of the present evaluation.

The 2200 m/s values are given in Table 1. The cross sections are shown in Figs. 1~4 with the measured data as well as the evaluated data of JENDL-1 and ENDF/B-IV. The total and fission cross sections agree with the measured data and with the other evaluated data. As to the capture cross section, the present data, which were evaluated without the experimental data of Weston and Todd, look a little lower between 0.05 and 0.2 eV. The peaks observed in the measured total and capture cross sections near 1 eV and 2.5 eV are obviously due to ²⁴⁰Pu.

3. Resonance Parameters

3.1 Resolved Resonance Parameters

The resolved resonance region is from 1 eV to 100 eV. The Breit-Wigner formula, which is standard in JENDL-2, was adopted.

In the evaluation for JENDL-1, we adopted the resonance parameters recommended in BNL-325, 3rd edition¹⁰⁾, which were mainly taken from

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analyses by Blons et al.¹¹⁾ and by Kolar et al.¹²⁾ It was found¹⁾ that these parameters satisfactorily reproduced the total and fission cross sections but a little underestimated the capture cross section.

In the evaluation for JENDL-2, the experimentally deduced parameters available at the time of 1977 were collected and stored in REPSTOR system¹³⁾. They are shown in Table 2. After that Weston and Todd¹⁴⁾ reported the parameters up to 100 eV, but their Adler-Adler type multi-level parameters cannot be treated in our system. As no new measurements were available after JENDL-1 except the untreatable parameters by Weston and Todd, we decided to adopt the parameters of JENDL-1 as the initial guess values.

The cross sections were calculated with the effective scattering radius of 10.0 fm. The resonance parameters were modified so that the calculated total, fission and capture cross sections might reproduce the measured data by Kolar and Carraro¹⁵⁾, by Blons¹⁶⁾ and by Weston and Todd⁹⁾, respectively. As the numerical data of Weston and Todd were not available at the time of the present evaluation, the fitting to the capture cross section was made to the resonances below 20 eV for which the peak values of Weston and Todd were read from graphs in Ref. (9). This modification was made by displaying the calculated cross sections and the measured data on a cathode ray tube with NDES (Neutron Data Evaluation System)¹⁷⁾.

The background cross sections were applied to both the fission and capture cross sections. The background fission cross section was determined by NDES so as to compensate the remaining discrepancies between the calculated and measured data due to the interference among levels. The present resonance parameters also underestimate the capture cross section a little and the discrepancy was corrected by the smooth

background cross section. Table 3 shows the average fission and capture cross sections calculated with and without the background cross sections as well as the average values of measured data. Figure 5 shows the calculated total, fission and capture cross sections with and without the background cross section as an example. The background correction has little effect on the total cross section. Figures 6 to 15 show the present total, fission and capture cross sections with the measured data as well as those of JENDL-1 and ENDF/B-IV.

3.2 Unresolved Resonance Parameters

The unresolved resonance parameters are supplied in the energy region between 100 eV and 30 keV. First the fission and capture cross sections were evaluated as will be described in the next chapter. The unresolved resonance parameters were obtained so as to reproduce the evaluated cross sections.

The initial guess parameters were determined as follows. The s- and p-wave strength functions and the effective scattering radius were obtained from the optical model calculation which will be described later. The mean level spacing and the mean radiation width were taken from the resolved resonances. The fission width was estimated²¹⁾ for each spin state with the channel theory of nuclear fission²²⁾.

First the mean level spacing was adjusted within the estimated error of 15% so as to reproduce the global trend of the cross sections. Then the strength functions and the fission widths were searched for so as to reproduce the fission and capture cross sections at each energy point. In the search, the ratio of s-wave strength function to p-wave one was kept constant. The ratios of the fission width in a spin state to those in the other states were also kept constant.

Table 4 gives the unresolved resonance parameters with the calculated cross sections.

3.3 Resonance Integrals

The resonance integrals were calculated from the present resonance parameters and the background cross sections with the cut-off energy of 3 eV. The fission and capture resonance integrals agree with the data measured by Eiland et al.²⁰⁾ as seen in Table 3.

4. Cross Sections above Resonance Region

4.1 Fission Cross Section

In the evaluation for JENDL-2, a simultaneous evaluation method was adopted²³⁾ for the data of ^{235}U , ^{238}U , ^{239}Pu , ^{240}Pu and ^{241}Pu so as to keep consistency among them, because most of new measurements have been reported as ratios to the fission cross section of ^{235}U . The method was performed as follows:

1. The fission cross section of ^{235}U is evaluated on the basis of recently measured data.
2. The cross sections of the other nuclides are deduced from the ratio data by using the fission cross section of ^{235}U .
3. The deduced cross section data are compared with absolutely measured data. If there exist some systematic discrepancies between the deduced and absolute cross sections, a way to diminish the discrepancies is suggested on the fission cross section of ^{235}U .
4. The fission cross section of ^{235}U is reevaluated by taking account of the suggestions from the other nuclides.
5. Procedures 2~4 are repeated until the consistency is obtained among all the nuclides.

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4. The fission cross section of ^{235}U is reevaluated by taking account of the suggestions from the other nuclides.
5. Procedures 2[~]4 are repeated until the consistency is obtained among all the nuclides.

As to ^{241}Pu , this method was applied to the fission cross section above 10 keV. In the energy range below 10 keV, the evaluation was made by the eye-guide method mainly on the basis of the absolute measurements by Weston and Todd⁹⁾, by Carlson et al.²⁴⁾ and by Blons¹⁶⁾. Among them, the data of Weston and Todd and of Carlson et al. were published after the evaluation of JENDL-1. However they are considerably discrepant with each other as is seen in Fig. 16. As we could not find any reason to abandon one of them, the evaluation was made by averaging the three data sets with equal weights and the old data of James¹⁹⁾ and of Migneco et al.¹⁸⁾ with minor weights.

Above 10 keV, the simultaneous evaluation was made by using mainly the ratio data of Käppeler and Pflöschinger²⁵⁾, of Carlson and Behrens²⁶⁾ and of Fursov et al.²⁷⁾, and the absolute data of Szabo^{28,29)} and of Carlson et al.²⁴⁾.

The presently evaluated fission cross section is shown in Figs. 16 ~ 19 with the measured data as well as the evaluated curves of JENDL-1 and ENDF/B-IV. The present evaluated data are much affected by the ratio data as a result of the simultaneous evaluation. The present values agree with the absolute data of Szabo^{28,29)} in the energy regions below 200 keV and above 1 MeV, but are larger than those of Szabo between 200 and 800 keV. This comes from compromise in the simultaneous evaluation. From the viewpoint of ^{241}Pu , the fission cross section of ^{235}U seems too high between 200 and 800 keV, but the high values are preferable for the other nuclides. The data of Carlson et al.²⁴⁾ are systematically lower than those of Szabo, of Weston and Todd⁹⁾ and of Blons¹⁶⁾. The data of ENDF/B-IV look to be based on the data of Smith et al.³⁰⁾ and give higher values in the energy region above 1 MeV.

4.2 Total Cross Section and Optical Model

As no measured data have so far been reported for the total cross section above 1 keV, the evaluation was based on the spherical optical model calculation. The optical potential parameters were determined by taking account of systematic trends among neighboring heavy nuclides as a part of the simultaneous evaluation²³⁾. Though actinide nuclei are deformed, it was proved²³⁾ that the potential parameters adopted in JENDL-2 reproduced satisfactorily the total cross sections, the strength functions and the angular distributions of elastically scattered neutrons. The adopted optical potential parameters are:

$$V = 40.25 - 0.05 E_n \quad \text{MeV}$$

$$W_s = 6.5 \quad \text{MeV}$$

$$V_{so} = 7.0 \quad \text{MeV}$$

$$r_o = r_{so} = 1.32 \quad \text{fm}$$

$$r_s = 1.38 \quad \text{fm}$$

$$a = b = a_{so} = 0.47 \quad \text{fm.}$$

The calculated cross section joins smoothly to the measured data^{15,31)} below 1 keV as seen in Fig. 20.

4.3 Capture Cross Section

The α -values measured by Weston and Todd⁹⁾ up to 250 keV are the only available capture data. Hence the present evaluation was based on their data up to 250 keV. Above 250 keV, the statistical model calculation was applied. The γ -ray strength function of 7.51×10^{-3} was obtained so that the calculated capture cross section might be connected smoothly to the data of Weston and Todd; $\sigma_{n,\gamma} = 269$ mb at 250 keV. The obtained capture cross section is shown in Fig. 21.

4.4 Other Cross Sections

The (n,2n), (n,3n) and (n,4n) reaction cross sections were calculated by the SIGNXN code³²⁾ according to Pearlstein's method³³⁾ based on the evaporation model. The neutron emission cross section approximated to the difference between the compound nucleus formation cross section and the fission cross section, because the charged particle emission and the compound elastic scattering cross sections are negligibly small.

Taking account of the (n,2n), (n,3n), (n,4n) and fission cross sections as competing processes, the capture, elastic and inelastic scattering cross sections were calculated with the statistical model code CASTHY³⁴⁾.

The level scheme of the discrete levels was taken from Table of Isotopes, 7th edition³⁵⁾. The level density parameters were taken from the recommendation by Gilbert and Cameron³⁶⁾. The Q-values of (n,2n), (n,3n) and (n,4n) reactions were obtained from the compilation by Wapstra and Gove³⁷⁾. These data are given in Table 5. The inelastic scattering, (n,2n) and (n,3n) reaction cross sections are shown in Fig. 21. The present inelastic scattering cross section is lower than that of JENDL-1, because the competing fission cross section is higher in this energy region. The inelastic scattering cross section of ENDF/B-IV was calculated with the coupled channel optical model³⁸⁾, but the competing fission process seems not to have been considered.

5. Other Quantities

5.1 Average Number of Neutrons Emitted per Fission (ν)

The datum of Boldeman and Frehaut³⁹⁾ was adopted for the number of prompt neutrons per thermal fission by assuming $\nu_p(^{252}\text{Cf}) = 3.753$. The

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energy dependence was determined by the data of Frehaut et al.⁴⁰⁾ and D'yachenko et al.⁴¹⁾:

$$v_p = 2.913 + 0.149 E_n.$$

The evaluated data are shown in Fig. 23 with the measured data.

As to the delayed neutrons, the data of Benedetti et al.⁴²⁾ were adopted for the v_d -value, the fractions β_i and the decay constants λ_i . We assumed that the (n,n'f) process was dominant after its channel opened ($E_n \gtrsim 6$ MeV). The presently adopted v_d -value is

$$v_d = \begin{cases} 0.016 & \text{for } E_n \leq 5 \text{ MeV,} \\ 0.00911 & \text{for } E_n \geq 7 \text{ MeV,} \end{cases}$$

and both values are linearly connected between 5 and 7 MeV.

5.2 Angular Distributions of Emitted Neutrons

The angular distributions of elastically scattered neutrons were calculated with the optical model. The isotropic scattering in the center-of-mass system was assumed for the inelastic scattering to discrete levels and the isotropic scattering in the laboratory system for the other reactions.

5.3 Energy Distributions of Emitted Neutrons

The simple evaporation spectrum was assumed for the inelastically scattered neutrons which leave the residual nucleus in continuum excited states (MT = 91). The nuclear temperature (θ) was determined as

$$\theta = \begin{cases} T_n & E_n < E_x \\ \frac{1 + \sqrt{1 - 4a(E_n - \Delta)}}{2a} & E_n > E_x \end{cases}$$

where E_n is the incident neutron energy, and a and Δ are the level

density parameter and the pairing energy of the residual nucleus. T_n is the nuclear temperature in the constant temperature model and E_x is the joining energy between the constant temperature and Fermi gas models. These parameters are given in Table 5 (b).

As to the (n,2n), (n,3n) and (n,4n) reactions, we assumed the successive evaporation model. For the (n,2n) process, for example, the first neutron evaporates leaving the residual nucleus in an excited state higher than the neutron separation energy, and then the second neutron evaporates from the excited state. In calculating the temperature for the second neutron, we assumed that the second neutron evaporated from the excited state corresponding the average energy of the first neutron. In the ENDF/B format, the temperature of each neutron is stored independently in each subsection.

5.4 Fission Spectrum (χ)

The Maxwellian spectrum was assumed. The temperature was determined from the Z^2/A systematics obtained by Smith et al.⁴³⁾, by taking a reference ^{252}Cf average fission neutron energy of 2.13 MeV as recommended by Grundl and Eisenhauer⁴⁴⁾. The obtained temperature is 1.358 MeV. The delayed neutron spectrum was taken from ENDF/B-IV.

5.5 Fission Yield

No evaluation was done for fission yield data. The data of ENDF/B-IV were adopted.

6. Discussion

Though the quality of the presently evaluated data was proved⁵⁾ to be satisfactory, the following problems were encountered in the

density parameter and the pairing energy of the residual nucleus. T_n is the nuclear temperature in the constant temperature model and E_x is the joining energy between the constant temperature and Fermi gas models. These parameters are given in Table 5 (b).

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6. Discussion

Though the quality of the presently evaluated data was proved⁵⁾ to be satisfactory, the following problems were encountered in the

evaluation and were left for future work.

In the thermal and resonance regions, the present evaluation did not sufficiently take account of the data by Weston and Todd, as their numerical data were not available at the time of the evaluation. Therefore the capture cross section should be a little modified in the thermal energy range.

The background correction was applied to the fission and capture cross sections in the resolved resonance region. The present resonance parameters seem to underestimate the capture cross section. Reevaluation of the parameters might be necessary. As to the fission cross section, the multi-level multi-channel formula might be required. Particularly, the Adler-Adler type parameters deduced by Weston and Todd¹⁴⁾ must be taken into account.

The simultaneous evaluation was applied²³⁾ for the important heavy nuclides. The fission cross section of ^{235}U was determined so as to keep the best consistency between the ratio and absolute data among nuclides. Though the present value of ^{235}U fission cross section is the results of compromise among the nuclides, its value between 200 keV and 800 keV seems too high from the viewpoint of ^{241}Pu fission. Furthermore recent measurements^{45,46)} of ^{235}U fission cross section give lower values than that of JENDL-2 in this energy range. Taking account of this situation, more precise simultaneous evaluation is planned for JENDL-3.

The spherical optical model was applied in the evaluation of JENDL-2 for main fissile and fertile material nuclides, though these nuclei are heavily deformed. The spherical optical model could satisfactorily reproduce the total cross section and neutron strength functions, if adequate potential parameters be selected. However, the potential parameters thus selected contain the effect of nuclear

deformation. Hence it is not guaranteed that a potential parameter set giving good results for a nuclei gives also good results for another nuclei with different deformation. This makes systematic study very difficult. This is particularly severe for ^{241}Pu , since the potential parameters were determined from the systematic trends among neighboring nuclei.

The coupled channel optical model should be applied to avoid this difficulty. However other approximations are required to connect the coupled channel optical model with the statistical model. The coupled channel optical model can couple only several levels in the ground state band, while the statistical model requires the neutron transmission coefficients for all the levels considered. Some approximations have been already proposed^{47,48)}. We have developed a code CASECIS⁴⁹⁾, which is the combination of the coupled channel optical model code ECIS⁵⁰⁾ and the statistical model code CASTHY³⁴⁾. This code uses the transmission coefficients obtained by the coupled channel optical model for the entrance channel and those by the spherical optical model for the exit channels. This code will be used in the evaluation for JENDL-3.

7. Conclusion

Complete reevaluation was made on the neutron nuclear data of ^{241}Pu for JENDL-2. The present evaluation took account of some new experimental data published after JENDL-1. Furthermore, the simultaneous evaluation method was applied for the fission cross section so as to keep the consistency among cross sections of the main fissile and fertile materials. The values pertaining to fission such as ν and χ , which were not evaluated in JENDL-1 were also evaluated and added except the fission yield and the delayed neutron spectrum, which were taken

deformation. Hence it is not guaranteed that a potential parameter set giving good results for a nuclei gives also good results for another nuclei with different deformation. This makes systematic study very difficult. This is particularly severe for ^{241}Pu , since the potential parameters were determined from the systematic trends among neighboring nuclei.

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from ENDF/B-IV. The evaluated results were proved to be satisfactory for fast reactor calculations.

The problems encountered in the evaluation and left for future work are:

- 1) Reevaluation of resolved resonance parameters by considering the multi-level multi-channel formula.
- 2) Reevaluation of ^{235}U fission cross section in the simultaneous evaluation, by taking account of newly measured data.
- 3) Adoption of the coupled channel optical model by considering the nuclear deformation effect.

The presently evaluated data are stored in JENDL-2 with MAT number of 2945.

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Table 1 2200m/s cross sections of ^{241}Pu

	(barns)				
	JENDL-2	JENDL-1	ENDF/V-IV	BNL-325(3) ¹⁰⁾	Lemmel ⁸⁾
Total	1388	1385	1385	1388 ± 10	1389 ± 9
Elastic	10.2	10.3	12.0	11 ± 1	10.8 ± 2.6
Fission	1015	1008	1008	1009 ± 8	1015 ± 7
Capture	363	367	367	368 ± 10	363 ± 9

Table 2 Resonance parameters of ²⁴¹Pu

ENERGY (eV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH * (MILLI-EV)	GRABR WIDTH (MILLI-EV)	FISSION WIDTH ** (MILLI-EV)	MISCELLANEOUS ***	REFERENCE
-0.209 -0.209 -0.209 -0.160	3.0 3.0 3.0	132.063 132.063 132.063	0.063 0.063 0.063	35.0 35.0 35.0 40	97.0 97.0 97.0 0 60	L = 0 L = 0 L = 0 WGO = 0.0725	JENDL-2 JENDL-1 ENDF-B-4 6151MPSO
0.257 0.257 0.258 0.257 ± 0.005 0.250 ± 0.005 0.264 0.26	3.0 3.0 3.0 3 3 3 3	132.051 132.051 130.053 132 ± 13 110 ± 10	0.05143 0.05143 0.0532 0.060 ± 0.005 0.061 ± 0.003 0.051	35.0 35.0 35.0 35 ± 8 35 ± 8 40	97.0 97.0 95.0 97 ± 10 75 ± 10 0 -72 75 0	L = 0 L = 0 L = 0 WGO = 0.12 ± 0.01 WGO = 0.100 ± 0.005 WGO = 0.101	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 6151MPSO 76BLONS-M
4.28 4.28 4.28 4.28 ± 0.01 4.30 ± 0.02 4.28 4.275 4.27 4.28 4.28 4.28	3.0 3.0 3.0 3 3 3 3 3 3 3 3	95.69 77.454 80.53 77 ± 10 70 ± 10 69	0.69 0.45429 0.53 0.53 ± 0.12 0.66 ± 0.12 0.58 0.72 0.72 0.723	50.0 32.0 35.0 32 ± 8 38 ± 9 40 40 39 40	45.0 45.0 45.0 45 ± 10 32 ± 8 0 -45 0 21 32 0 29 29 29 0	L = 0 L = 0 L = 0 WGO = 0.26 ± 0.06 WGO = 0.32 ± 0.06 WGO = 0.255 WGO = 0.404 GFS = 71.0	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 6151MPSO 64MOORE 68SAUTER 71BLONS-M 71BLONS-S 76BLONS-M
4.58 4.58 4.57 4.58 ± 0.01 4.58 ± 0.02 4.56 4.580 4.57 4.59 4.58 4.58	2.0 2.0 2.0 2 2 2 2 2 2 2	184.42 170.35 150.31 170 ± 10 200 ± 30 164	0.42 0.36 0.31 0.30 ± 0.04 0.43 ± 0.09 0.47 0.37 0.37 0.375	45.0 35.0 20.0 35 40 ± 20 40 40 25 40	135.0 135.0 130.0 135 ± 10 160 ± 30 190 -140 0 -142 -24 100 124 -24 100	L = 0 L = 0 L = 0 WGO = 0.14 ± 0.02 WGO = 0.20 ± 0.04 WGO = 0.194 WGO = 0.204 GFS = 79.5	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 6151MPSO 64MOORE 68SAUTER 71BLONS-M 71BLONS-S 76BLONS-M
6.11 5.97 6.11 5.97 ± 0.05 5.92 ± 0.05 5.91 5.910 5.92 5.97 5.97 5.93	2.0 2.0 2.0 2 2 2 2 2 2 2	1338.24 1338.24 1380.19 1338 ± 100 1390 ± 150 1290	3.24 3.24 3.19 2.7 ± 0.2 2.43 ± 0.12 2.87 2.69 2.69 2.798	35.0 35.0 27.0 35 40 40 40 40	1300 1300.0 1350.0 1300 ± 100 1350 ± 150 1350 0 -1350 0 -1330 -1250 0 1250 -1292 16	L = 0 L = 0 L = 0 WGO = 1.1 ± 0.1 WGO = 1.00 ± 0.05 WGO = 1.020 WGO = 1.020 GFS = 565.0	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 6151MPSO 64MOORE 68SAUTER 71BLONS-M 71BLONS-S 76BLONS-M
6.93 6.93 6.93 6.93 ± 0.02 6.93 ± 0.03 6.94 6.915 6.91 6.93 6.93 6.93	3.0 3.0 3.0 3 3 3 3 3 3 3 3	155.72 155.617 160.595 156 ± 20 130 ± 20 129	0.72 0.61714 0.595 0.72 ± 0.05 0.71 ± 0.13 0.58 0.83 0.83 0.823	35.0 35.0 15.0 35 40 ± 20 40 40 40	120.0 120.0 145.0 120 ± 20 95 ± 30 0 95 0 -93 -105 0 -89 89 -89 0	L = 0 L = 0 L = 0 WGO = 0.27 ± 0.02 WGO = 0.27 ± 0.05 WGO = 0.218 WGO = 0.275 GFS = 98.6	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 6151MPSO 64MOORE 68SAUTER 71BLONS-M 71BLONS-S 76BLONS-M
8.62 8.68 8.62 8.68 ± 0.03 8.60 ± 0.03 8.60 8.585 8.57 8.60 8.60 8.61	3.0 3.0 3.0 3 3 3 3 3 3 3 3	141.94 130.686 130.804 131 ± 30 110 ± 20 95	0.94 0.68571 0.804 0.80 ± 0.15 1.0 ± 0.2 0.61 1.07 1.07 1.015	41.0 30.0 30.0 30 ± 10 30 ± 20 40 40 30 40	100.0 100.0 100.0 100 ± 30 80 ± 30 0 70 0 70 0 70 85 0 55 55 41 0	L = 0 L = 0 L = 0 WGO = 0.27 ± 0.05 WGO = 0.33 ± 0.06 WGO = 0.268 WGO = 0.324 GFS = 93.9	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 6151MPSO 64MOORE 68SAUTER 71BLONS-M 71BLONS-S 76BLONS-M
9.57 9.57 9.54 9.57 ± 0.04 9.5 ± 0.1 9.56 9.48	2.0 2.0 3.0 2 2 2 2	365.528 365.528 375.442 365 ± 40 160 ± 40	0.528 0.528 0.442 0.44 ± 0.08 0.18 ± 0.08	35.0 35.0 25.0 35 40 40	350 350.0 360.0 350 120 ± 140 0 -100 0 -125	L = 0 L = 0 L = 0 WGO = 0.14 ± 0.03 WGO = 0.06 ± 0.02 WGO = 0.035 WGO = 0.068	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 6151MPSO 64MOORE

ENERGY (eV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
21.91 ± 0.05 21.9 ± 0.1 21.99 ± 0.24		70 ± 20 130 ± 70 200 ± 100	0.17 ± 0.02 0.15 ± 0.05 0.13	50 ± 20	20	WGO = 0.036 ± 0.004 WGO = 0.032 ± 0.010 WGO = 0.028 S = 37 WDH = 0.020 ± 0.004 GNO = 0.01	BNL 325(1) BNL 325(2) 64CRAIG
21.9 21.85		200		40	0 -20		64PATTENDEN 66SIMPSON
21.93 21.91 21.92 21.95		82.0 ± 20.0 68.0 ± 40.0	0.16 0.106	63.0 ± 20.7 51.3 ± 41.2	18.8 ± 5.6 16.4 ± 10.0	GFS = 3.2 WGO = 0.042 ± 0.004 WGO = 0.04 ± 0.004	71BLONS-S 71KOLAR-A 71KOLAR-B 76BLONS-M
22.5				40	0 200	GNO = 0.0001	66SIMPSON
23.0 23.0 23.07 23.00 ± 0.05 23.0 ± 0.1 23.04 ± 0.3	3.0 3.0 3.0 3	370.986 370.986 325.855 370 ± 20 360 ± 70 600 ± 250	0.98571 0.98571 0.855 1.15 ± 0.08 1.2 ± 0.2 1.5	35.0 35.0 25.0 (35) (40)	335.0 335.0 300.0 335 ± 50 320 ± 70	L = 0 L = 0 L = 0 WGO = 0.240 ± 0.017 WGO = 0.75 ± 0.04 WGO = 0.32 S = 142 WGO = 0.24	JENDL-2 JENDL-1 ENDF-B-4 BNL 325(1) BNL 325(2) 64CRAIG
22.86 23.0 22.99		200		40	0 0 280	WDH = 0.11 ± 0.01 GNO = 0.245	64MOORE 64PATTENDEN 66SIMPSON
22.88 23.02 22.99 22.97 22.95	3	368 380 ± 13.0 320.0 ± 7.0	1.10 1.17 1.005	60 46 64.4 ± 18.1 65.7 ± 11.6	-335 321 294.0 ± 12.7 253.0 ± 9.35 211 70	GFS = 57.8 WGO = 0.26 ± 0.005 WGO = 0.23 ± 0.005	68SAUTER 71BLONS-S 71KOLAR-A 71KOLAR-B 76BLONS-M
23.7 23.7 23.75 23.70 ± 0.06 23.5 23.66	2.5 2.5 2.0	380.39 380.39 330.331 350 ± 50	0.39 0.39 0.331 0.39 ± 0.08	55.0 55.0 30.0 55 ± 15	325.0 325.0 300.0 325 ± 30	L = 0 L = 0 L = 0 WGO = 0.080 ± 0.016 GNO = 0.14	JENDL-2 JENDL-1 ENDF-B-4 BNL 325(1) 64PATTENDEN 66SIMPSON
23.70 23.66 23.64 23.7		285 394.0 ± 30.0 380.0 ± 18.0	0.38 0.299	40 55 84.3 ± 42.1 72.0 ± 29.4	450 0 231 309.0 ± 29.5 307.0 ± 23.3 200 -50	GFS = 16.9 WGO = 0.118 ± 0.005 WGO = 0.114 ± 0.005	71BLONS-S 71KOLAR-A 71KOLAR-B 76BLONS-M
24.04 24.04 24.12 24.04 ± 0.06 24.0 ± 0.1 24.12 ± 0.16	3.0 3.0 3.0 3	127.183 127.183 218.13 127 ± 6 220 ± 50 220 ± 140	1.18286 1.18286 1.13 1.38 ± 0.14 1.6 ± 0.2 1.4 ± 0.9	45.0 45.0 27.0 46 ± 7 (40)	80.0 80.0 190.0 80 ± 20 180 ± 50	L = 0 L = 0 L = 0 WGO = 0.281 ± 0.029 WGO = 0.32 ± 0.04 WGO = 0.29 ± 0.2 S = 346 WGO = 0.31	JENDL-2 JENDL-1 ENDF-B-4 BNL 325(1) BNL 325(2) 64CRAIG
23.96 24.0 24.04		200		40	0 0 -70	WDH = 0.21 ± 0.02 GNO = 0.26	64MOORE 64PATTENDEN 66SIMPSON
23.97 24.07 24.07 24.03 24.07	3	118 114.0 ± 6.0 126.0 ± 6.0	1.42 1.31 1.248	60 41 47.0 ± 7.32 51.2 ± 7.39	185 76 65.7 ± 4.2 73.4 ± 4.31 -15 -63	GFS = 45.5 WGO = 0.258 ± 0.005 WGO = 0.27 ± 0.005	68SAUTER 71BLONS-S 71KOLAR-A 71KOLAR-B 76BLONS-M
24.61 24.61 24.57 24.61 ± 0.06 24.8 24.57	2.5 2.5 2.0	549.15 549.2 70.0188	0.15 0.2 0.0188 0.35 ± 0.15	40.0 40.0 30.0	509.0 509.0 40.0	L = 0 L = 0 L = 0 WGO = 0.071 ± 0.030 GNO = 0.013	JENDL-2 JENDL-1 ENDF-B-4 BNL 325(1) 64PATTENDEN 66SIMPSON
24.61 24.7 24.31 24.41		(600) 1420.0 ± 250.0 1130.0 ± 121.0	0.201 0.3	40 342.0 ± 364.0 337.0 ± 205.0	-100 0 1509 1070 ± 265.0 794.0 ± 165.0 640 0	GFS = 9.0 WGO = 0.102 ± 0.014 WGO = 0.102 ± 0.014	71BLONS-S 71KOLAR-A 71KOLAR-B 76BLONS-M
24.72				40	0 250	GNO = 0.004	66SIMPSON
25.64				40	-50 0	GNO = 0.001	66SIMPSON
26.39 26.39 26.43 26.39 ± 0.06 26.4 ± 0.2 26.45 ± 0.17	3.0 3.0 3.0 3	313.857 313.857 330.93 310 ± 10 300 ± 40 340 ± 100	3.85714 3.85714 3.93 4.5 ± 0.2 4.4 ± 0.4 4.3 ± 1.3	45.0 45.0 27.0 45 ± 10 (40)	265.0 265.0 300.0 265 ± 20 260 ± 40	L = 0 L = 0 L = 0 WGO = 0.875 ± 0.039 WGO = 0.86 ± 0.07 WGO = 0.84 ± 0.24 S = 625 WGO = 0.82	JENDL-2 JENDL-1 ENDF-B-4 BNL 325(1) BNL 325(2) 64CRAIG
26.34 26.4 26.32		196		40	0 280 0 270	WDH = 0.51 GNO = 1.04	64MOORE 64PATTENDEN 66SIMPSON
26.30 26.41 26.39 26.36 26.38	3	303 318.0 ± 5.0 292.0 ± 7.0	3.60 4.45 4.538	30 38 64.9 ± 7.42 50.3 ± 9.77	-315 261 248.0 ± 5.48 237.0 ± 6.82 257 -7	GFS = 189.2 WGO = 0.912 ± 0.008 WGO = 0.864 ± 0.008	68SAUTER 71BLONS-S 71KOLAR-A 71KOLAR-B 76BLONS-M

ENERGY (eV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	OPERA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
27.27				40	0 750	GND = 0.001	66SIMPSON
27.5 27.50 ± 0.12 27.5 27.34 27.62 27.5	2.5	877.33 (900)	0.33 0.08 ± 0.04 0.33 0.03	40.0 40	837.0 300 0 (837) 0 22	L = 0 WGO = 0.015 ± 0.008 GND = 0.008 GFS = (14.5)	JENDL-1 BNL325131 64PATTENDEN 66SIMPSON 71BLONS-S 76BLONS-M
27.72			0.542		900 0		76BLONS-M
28.89 28.89 28.89 28.96 28.89 ± 0.07 28.8 ± 0.2 28.97 ± 0.22 28.75 28.9 28.68 28.77 28.88 28.86 28.83 28.72	2.0 2.0 2.0 2 2 2 2 2	700.76 700.76 733.4 700 ±30 700 ±100 720 ±100 200 763 650.0 ±10.0 600.0 ±20.0	5.76 5.76 5.4 4.8 ± 0.2 4.8 ± 0.5 5.0 6.40 4.89 3.942	40.0 40.0 27.0 40 (40) 40 60 38 83.2 ±21.2 78.6 ±30.9	655.0 655.0 700.0 655 ±30 660 ±100 750 0 690 720 561.0 ±18.8 516.0 ±23.6 543 52	L = 0 L = 0 L = 0 WGO = 0.893 ± 0.037 WGO = 0.90 ± 0.10 WGO = 0.93 S = 310 WGO = 1.12 WGH = 1.0 GND = 1.06 GFS = 208.5 WGO = 0.914 ± 0.01 WGO = 0.87 ± 0.01	JENDL-2 JENDL-1 ENDF-B-4 BNL325131 BNL325121 64CRAIG 64MOORE 64PATTENDEN 66SIMPSON 68SAUTER 71BLONS-S 71KOLAR-A 71KOLAR-B 76BLONS-M
29.42 29.42 29.57 29.42 ± 0.07 29.4 ± 0.2 29.5? ± 0.25 29.35 29.5 29.59 29.33 29.42 29.44 29.46 29.6	3.0 3.0 2.0 3 3 3 3 3 3	125.471 125.471 125.609 125 ±30 90 ±50 50 ±50 156 219.0 ±15.0 219.0 ±36.0	0.47143 0.47143 0.609 0.55 ± 0.06 0.7 ± 0.3 0.36 0.49 0.31 0.46	40.0 40.0 25.0 (40) 50 ±30 40 40 35 40 41.0 ±30.8 39.0 ±51.5	85.0 85.0 100.0 85 ±30 40 ±20 0 -40 50 0 70 116 177.0 ±26.9 179.0 ±36.9 -123 -78	L = 0 L = 0 L = 0 WGO = 0.10 ± 0.01 WGO = 0.13 ± 0.05 WGO = 0.066 S = 320 WGO = 0.10 GND = 0.088 GFS = 10.4 WGO = 0.152 ± 0.006 WGO = 0.164 ± 0.006	JENDL-2 JENDL-1 ENDF-B-4 BNL325131 BNL325121 64CRAIG 64MOORE 64PATTENDEN 66SIMPSON 68SAUTER 71BLONS-S 71KOLAR-A 71KOLAR-B 76BLONS-M
30.05 30.1 30.1			0.035 0.035	40	0 -20 32	GND = 0.0 GFS = 0.8	66SIMPSON 76BLONS-M 76BLONS-S
31.03 30.96 31.03 30.96 ± 0.07 30.9 ± 0.2 31.03 ± 0.21 30.88 31.0 30.91 30.90 31.03 31.0 30.98 30.97	3.0 3.0 3.0 3 3 3 3 3	299.203 299.203 319.11 300 ±20 350.70 360 ±100 260 292.0 ±12.0 292.0 ± 7.0	2.20286 2.20286 2.11 2.57 ± 0.13 2.9 ± 0.4 2.4 ± 0.6 2.32 2.55 2.553	56.0 56.0 27.0 56 ±14 (40) 40 40 54 40 57.9 ±16.4 53.7 ±10.7	241.0 241.0 290.0 241 ±11 310.70 0 300 220 320 203 231.0 ±11.1 235.0 ± 8.18 0 -212	L = 0 L = 0 L = 0 WGO = 0.462 ± 0.023 WGO = 0.52 ± 0.07 WGO = 0.43 ± 0.1 S = 278 WGO = 0.45 WGH = 0.32 GND = 0.47 GFS = 84.0 WGO = 0.464 ± 0.006 WGO = 0.464 ± 0.006	JENDL-2 JENDL-1 ENDF-B-4 BNL325131 BNL325121 64CRAIG 64MOORE 64PATTENDEN 66SIMPSON 68SAUTER 71BLONS-S 71KOLAR-A 71KOLAR-B 76BLONS-M
32.5 32.52 32.20 ± 0.14 32.38 32.11	2.5 2.0	2541.0 2528.22 1800.0 ±150.0	1.0 1.22 0.017 0.17 0.26 0.173 0.26 ± 0.05 0.17 0.176	40.0 27.0 40 (40) 40 40 32 59.6 ±66.2	2500.0 2500.0 0 50 120.0 120.0 170.0 120 ±30 0 -150 115 90.0 ±38.3 60 50	L = 0 L = 0 WGO = 0.0030 GND = 0.003 WGO = 0.25 ± 0.006	JENDL-2 ENDF-B-4 BNL325131 66SIMPSON 71KOLAR-B
33.3 33.3 33.36 33.30 ± 0.07 33.27 33.30 33.3 33.3	2.5 2.5 3.0	160.17 160.26 197.173 160 ±30 147 150.0 ±54.0	0.17 0.26 0.173 0.26 ± 0.05 0.17 0.176	40.0 40.0 27.0 40 ±15 40 32 59.6 ±66.2	120.0 120.0 170.0 120 ±30 0 -150 115 90.0 ±38.3 60 50	L = 0 L = 0 L = 0 WGO = 0.045 ± 0.009 GND = 0.044 GFS = 5.2 WGO = 0.05 ± 0.008	JENDL-2 JENDL-1 ENDF-B-4 BNL325131 66SIMPSON 71BLONS-S 71KOLAR-B 76BLONS-M
33.37				40	50 0	GND = 0.01	66SIMPSON
33.77 33.77 33.85 33.77 ± 0.07 33.8 33.65	2.5 2.5 3.0	140.3 140.36 177.283 140 ±20 200	0.3 0.36 0.283 0.36 ± 0.12	40.0 40.0 27.0 (40) 40	100.0 100.0 150.0 100 ±20 0 0 -100	L = 0 L = 0 L = 0 WGO = 0.062 ± 0.021 WGH = 0.09 ± 0.01 GND = 0.063	JENDL-2 JENDL-1 ENDF-B-4 BNL325131 64PATTENDEN 66SIMPSON

ENERGY (eV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	OPERA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
33.78 33.76 33.74		92 165.0 ±30.0	^a 0.26 ^a 0.327		62 72.8 ±19.1 ^b 0 ^c 62	GFS = 6.8 HGO = 0.106 ± 0.006	71BLONS-S 71KOLAR-B 76BLONS-M
(34.15)				40	^b 0 ^c 300	GNO = (0.02)	66SIMPSON
34.9 34.9 34.31 34.90 ± 0.08 35.0 ± 0.1 34.90 34.9 34.72 34.90 34.90 34.45 34.97	2.5 2.5 3.0	1142.07 1142.07 527.193 1142 ±200 740 ±200 200 1400 680.0 ±54.0	2.07 2.07 0.193 ^a 2.07 ± 0.21 ^a 2.1 ± 0.2 ^a 2.14 ^a 2.14 ^a 2.167	40.0 40.0 27.0 (40) (40) 40 40 165.0 ±78.3	1100 1100.0 500.0 1100 ±200 700 ±200 ^b -1200 ^c 0 ^b -900 ^c 0 ^b -1313 ^c 45 1358 513.0 ±56.7 ^b -1169 ^c 123	L = 0 L = 0 L = 0 HGO = 0.350 ± 0.036 HGO = 0.35 ± 0.04 HGO = 0.45 HGH = 0.14 ± 0.02 GNO = 0.34 GFS = 77.6 HGO = 0.18 ± 0.01	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 64MOORE 64PATTENDEN 66SIMPSON 71BLONS-M 71BLONS-S 71KOLAR-B 76BLONS-M
34.98 34.98 35.02 34.98 ± 0.08 34.98 34.98 34.98 34.98	2.5 2.5 2.0	55.41 55.41 631.68 55.4 55 230.0 ±24.0	0.41 0.41 1.68 ^a 0.74 ± 0.32 ^a 0.41 ^a 0.41 ^a 0.403	40.0 40.0 30.0 (40) 40 115.0 ±27.5	15.0 15.0 600.0 ^b 15 ^c 0 15 113.0 ±13.5 ^b 10 ^c 6	L = 0 L = 0 L = 0 HGO = 0.13 ± 0.06 GFS = 4.1 HGO = 0.18 ± 0.006	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) 71BLONS-M 71BLONS-S 71KOLAR-B 76BLONS-M
35.45		550.0 ±227.0		87.3 ±300.0	462.0 ±197.0	HGO = 0.092 ± 0.006	71KOLAR-B
36.15 ± 0.08 36.15 ± 0.08 36.0 36.17 36.17 36.13 36.19	2.5	75.13 75 ± 4 76 120.0 ±25.3	^a 0.13 ^a 0.13 ± 0.07 ^a 0.07 ^a 0.07 ^a 0.07	40.0 (40) 40 40 86.3 ±27.4	35.0 35 ± 4 ^b 500 ^c 0 ^b 36 ^c 0 36 33.4 ±10.6 ^b 5 ^c 31	L = 0 HGO = 0.022 ± 0.012 GNO = 0.034 GFS = 1.3 HGO = 0.028 ± 0.006	JENDL-1 BNL325(3) 66SIMPSON 71BLONS-M 71BLONS-S 71KOLAR-B 76BLONS-M
(36.65)				40	^b 900 ^c 0	GNO = (0.0)	66SIMPSON
37.5 37.5 37.87 37.50 ± 0.08 37.37 37.50 37.50 37.55 37.57	2.5 2.5 3.0	640.15 640.24 427.086 640 ±200 857 200.0 ±115.0	0.15 0.24 0.086 ^a 0.24 ± 0.04 ^a 0.26 ^a 0.26 ^a 0.38	40.0 40.0 27.0 (40) 40 40 72.3 ±15.9	500.0 600.0 400.0 600 ±200 ^b 0 ^c -500 ^b 261 ^c 556 817 ^b 314 ^c 626	L = 0 L = 0 L = 0 HGO = 0.039 ± 0.007 GNO = 0.037 GFS = 7.3	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) 66SIMPSON 71BLONS-M 71BLONS-S 71KOLAR-B 76BLONS-M
38.17 38.14 38.21 38.14 ± 0.08 38.2 ± 0.2 38.2 38.08 38.14 38.14 38.09 38.1	2.5 2.5 3.0	240.5 240.5 190.366 240 ±30 170 ±30 200 155 248.0 ±25.0	0.5 0.5 0.356 ^a 0.50 ± 0.07 ^a 0.43 ^a 0.43 ^a 0.369	40.0 40.0 25.0 (40) 40 40 53.0	200.0 200.0 165.0 200 ±30 ^b 0 ^c 230 ^b 65 ^c -50 115 ^b -25 ^c 59	L = 0 L = 0 L = 0 HGO = 0.081 ± 0.011 HGH = 0.17 ± 0.02 GNO = 0.09 GFS = 10.9	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 64PATTENDEN 66SIMPSON 71BLONS-M 71BLONS-S 71KOLAR-B 76BLONS-M
(38.4) 38.4			^a 0.035	40	^b 0 ^c 10 ^b 0 ^c 10	GNO = (0.02)	66SIMPSON 76BLONS-M
(38.5)				40	^b 400 ^c 0	GNO = (0.01)	66SIMPSON
39.35 39.35 39.44 39.35 ± 0.08 39.3 ± 0.2 39.3 39.22 39.35 39.35 39.32 39.32	2.5 2.5 3.0	201.49 201.52 239.29 202 ±10 190 ±30 200 207 230.0 ±12.0	1.49 1.52 1.29 ^a 1.52 ± 0.08 ^a 1.49 ^a 1.49 ^a 1.489	40.0 40.0 28.0 (40) 40 40 72.3 ±15.9	160.0 160.0 210.0 160 ±10 ^b 0 ^c -160 ^b 120 ^c 46 166 155.0 ±10.5 ^b 46 ^c 120	L = 0 L = 0 L = 0 HGO = 0.242 ± 0.013 HGH = 0.11 ± 0.02 GNO = 0.25 GFS = 40.0 HGO = 0.28 ± 0.01	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 64PATTENDEN 66SIMPSON 71BLONS-M 71BLONS-S 71KOLAR-B 76BLONS-M
39.89	2.5	154.59	1.59	53.0	100.0	L = 0	JENDL-2

ENERGY (eV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
39.89 39.97 39.89 ± 0.08 39.9 39.8 39.89 39.89 39.86 39.83	2.5 3.0	109.61 126.1 110 ±12 200	1.61 1.1 1.61 ± 0.08 1.59 1.59 1.594	53.0 25.0 53 ±13 40 40 52.6 ±13.7	55.0 109.0 55 ± 5 0 50 0 61 61 55.7 ± 6.67 51 0	L = 0 L = 0 WGO = 0.255 ± 0.013 WGH = 0.16 ± 0.02 GNO = 0.26 OFS = 30.4 WGO = 0.25 ± 0.008	JENDL-1 ENDF-B-4 BNL325(3) 64PATTENDEN 66SIMPSON 71BLONS-M 71BLONS-S 71KOLAR-B 76BLONS-M
(40.3)				40	0 f-50)	GNO = (0.00)	66SIMPSON
40.87 40.87 40.88 40.87 ± 0.09 40.5 40.88 40.87 40.87 40.83 40.92	2.5 2.5 2.0	1042.12 1042.36 1052.42	2.12 2.36 2.42 2.36 ± 0.18 2.12 2.12 2.135	40.0 40.0 30.0 40 40 269.0 ±64.0	1000.0 1000.0 1020.0 1000 ±200 -1200 0 -937 -197 1134 828.0 ±49.9 -1063 -50	L = 0 L = 0 L = 0 WGO = 0.369 ± 0.028 GNO = 0.38 OFS = 65.4 WGO = 0.4 ± 0.016	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) 64PATTENDEN 66SIMPSON 71BLONS-M 71BLONS-S 71KOLAR-B 76BLONS-M
41.7 ± 0.2 41.6 42.16		220 ±50 200		40	0 50 0	WGH = 0.25 GNO = 0.005	BNL325(2) 64PATTENDEN 66SIMPSON
42.77 42.75 42.8 42.75 ± 0.09 42.7 42.57 42.77 42.73 42.7	2.5 2.5 3.0	240.28 240.35 230.216 200	0.28 0.35 0.215 0.35 ± 0.04 0.28 0.303	40.0 40.0 30.0 40 42 89.6 ±44.5	200.0 200.0 200.0 200 ±50 0 -250 178 109.0 ±27.7 220 0	L = 0 L = 0 L = 0 WGO = 0.054 ± 0.006 WGH = 0.012 ± 0.008 GNO = 0.053 OFS = 7.0 WGO = 0.06 ± 0.01	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) 64PATTENDEN 66SIMPSON 71BLONS-S 71KOLAR-B 76BLONS-M
43.45 43.4 43.53 43.40 ± 0.09 43.4 43.37 43.45 43.43 43.39	2.5 2.5 3.0	70.25 70.27 90.178 70 ±26 200	0.25 0.27 0.178 0.27 ± 0.04 0.25 0.292	40.0 40.0 40.0 (40) 40 24 43.3 ±28.0	30.0 30.0 50.0 30 ± 5 0 50 26 26.2 ±10.4 0 22	L = 0 L = 0 L = 0 WGO = 0.041 ± 0.006 WGH = 0.019 ± 0.008 GNO = 0.034 OFS = 3.8 WGO = 0.052 ± 0.006	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) 64PATTENDEN 66SIMPSON 71BLONS-S 71KOLAR-B 76BLONS-M
(43.85)				40	0 f 20)	GNO = (0.0)	66SIMPSON
44.3				40	0 0 5	GNO = 0.007	66SIMPSON
46.57 46.52 46.65 46.52 ± 0.09 46.7 ± 0.2 46.6 46.38 46.57 46.52 46.51	2.5 2.5 3.0	281.5 281.71 249.05 282 ±10 250 ±50 200	1.5 1.71 2.05 1.71 ± 0.17 1.71 1.605	40.0 40.0 27.0 (40) 40 39 97.7 ±13.7	240.0 240.0 220.0 240 ±40 -280 0 254 180.0 ± 9.47 0 -245	L = 0 L = 0 L = 0 WGO = 0.251 ± 0.025 WGH = 0.12 ± 0.02 GNO = 0.31 OFS = 41.3 WGO = 0.25 ± 0.008	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 64PATTENDEN 66SIMPSON 71BLONS-S 71KOLAR-B 76BLONS-M
47.05 47.3 47.1 47.1		1000.0 ±200.0 300	0.12 0.12	40 928.0 ±210.0	300 0 70.4 ±65.9 227	GNO = 0.02 WGO = 0.132 ± 0.12 OFS = 2.5	66SIMPSON 71KOLAR-B 76BLONS-M 76BLONS-S
48.11 48.11 48.16 48.11 ± 0.09 48.2 ± 0.2 48.1 47.95 48.11 48.02 48.04	2.5 2.5 3.0	626.2 445.2 522.65 445 ±80 530 ±100 200	6.2 6.2 5.65 6.2 ± 0.7 6.20 5.782	40.0 40.0 27.0 (40) 40 56 75.6 ±61.2	580.0 400.0 490.0 400 ±80 0 480 428 265.0 ±51.5 -291 142	L = 0 L = 0 L = 0 WGO = 0.89 ± 0.10 WGH = 0.75 GNO = 1.05 OFS = 144.0 WGO = 0.58 ± 0.012	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2) 64PATTENDEN 66SIMPSON 71BLONS-S 71KOLAR-B 76BLONS-M
48.45		940.0 ±48.0		255.0 ±90.2	682.0 ±76.4	WGO = 0.304 ± 0.02	71KOLAR-B
50.35 50.33 50.39 50.33 ± 0.09 50.4 ± 0.2	2.5 2.5 2.0	540.69 370.69 330.78 371 ±40 95 ±50	0.69 0.69 0.78 0.69 ± 0.15	40.0 40.0 30.0 (40)	500.0 330.0 300.0 330 ±40	L = 0 L = 0 L = 0 WGO = 0.097 ± 0.021	JENDL-2 JENDL-1 ENDF-B-4 BNL325(3) BNL325(2)

ENERGY (eV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
50.2 50.14		200		40	300 0 0	WGH = 0.036 ± 0.012 GND = 0.09	64PATTENDEN 66SIMPSON
50.35 50.21 50.31		518 435.0 ± 22.0	0.801 0.697	104.0 ± 62.3	329.0 ± 58.3 6 435	GFS = 20.0 WGO = 0.12 ± 0.02	71BLONS-S 71KOLAR-B 76BLONS-M
50.9				40	300 0	GND = (0.00)	66SIMPSON
52.07 52.07 ± 0.09 52.07 51.9	2.5 2.5	140.04 140.04 140 ± 50	0.04 0.04 0.04	40.0 40.0 40	100.0 100.0 100 ± 50 50 0	L = 0 L = 0 WGO = 0.0055 GND = 0.005	JENDL-2 JENDL-1 BNL 325(31) 66SIMPSON
52.24 52.0 52.13 52.13		(160) 200.0 100	0.101 0.1 0.1		(109) 32	GFS = 1.7 GFS = 0.8	71BLONS-S 71KOLAR-B 76BLONS-M 76BLONS-S
52.6		200.0		40	200 0	GND = (0.00)	66SIMPSON
52.6		200.0		40	0 300	GND = (0.0)	71KOLAR-B
53.4				40	0 300	GND = (0.0)	66SIMPSON
57.76 57.76		200	0.18 0.18		150	GFS = 3.0	76BLONS-M 76BLONS-S
54.15				40	0 500	GND = 0.003	66SIMPSON
55.4				40	300 0	GND = 0.0026	66SIMPSON
58.37 58.3 58.56 58.30 ± 0.05 58.02	2.5 2.5 2.0	621.75 621.9 533.49 622 ± 70	1.75 1.9 3.49 1.9 ± 0.2	40.0 40.0 30.0 40	580.0 580.0 500.0 580 ± 70 700 0	L = 0 L = 0 L = 0 WGO = 0.25 ± 0.03 GND = 0.32	JENDL-2 JENDL-1 ENDF-B-4 BNL 325(31) 66SIMPSON
58.37 58.24 58.12		593 616.0 ± 28.0	1.75 1.167	62 42.9 ± 63.1	529 571.0 ± 56.6 80 376	GFS = 35.0 WGO = 0.25 ± 0.02	71BLONS-S 71KOLAR-B 76BLONS-M
59.28 59.18 59.3 59.18 ± 0.05 59.18	2.5 2.5 2.0	582.2 582.2 582.9 580 ± 50 580	2.2 2.2 2.9 2.20 ± 0.11	40.0 40.0 30.0 40	540.0 540.0 550.0 540 ± 80 550 0	L = 0 L = 0 L = 0 WGO = 0.285 ± 0.014 GND = 0.29	JENDL-2 JENDL-1 ENDF-B-4 BNL 325(31) 66SIMPSON
59.18 59.18 59.22		680 500.0 ± 24.0	2.10 2.038	55 51.2 ± 42.4	623 446.0 ± 34.9 452 42	GFS = 42.5 WGO = 0.28 ± 0.014	71BLONS-S 71KOLAR-B 76BLONS-M
60.53 60.48 60.48 ± 0.05 60.26	2.5 2.5	281.3 192.0 192 ± 8	4.3 5.0 5.0 ± 0.5	27.0 27.0 27 ± 8 40	250.0 160.0 160.0 ± 10 0 160	L = 0 L = 0 L = 0 WGO = 0.64 ± 0.06 GND = 0.72	JENDL-2 JENDL-1 BNL 325(31) 66SIMPSON
60.51 60.45 60.44		200 200.0 ± 5.0	4.50 4.317	40 27.3 ± 7.83	155 168.0 ± 6.02 72 65	GFS = 75.0 WGO = 0.52 ± 0.012	71BLONS-S 71KOLAR-B 76BLONS-M
61.3				40	50 0 165 256	GND = (0.01)	66SIMPSON
60.64			0.598				76BLONS-M
62.25 62.2 62.20 ± 0.06 62.08	2.5 2.5	644.62 445.7 446 ± 100	4.62 5.7 5.7 ± 1.0	40.0 40.0 40	600.0 400.0 400 ± 100 650 0	L = 0 L = 0 WGO = 0.72 ± 0.13 GND = 0.86	JENDL-2 JENDL-1 BNL 325(31) 66SIMPSON
62.25 62.14 62.12		(500) 322.0 ± 27.0	4.62 5.164	10.3 ± 52.0	(1413) 309.0 ± 44.5 553 37	GFS = 80.0 WGO = 0.31 ± 0.014	71BLONS-S 71KOLAR-B 76BLONS-M
63.0 62.65 62.65 ± 0.06 63.0 62.5	2.5 2.5	1242.0 822.9 823 ± 100 (1290) 800.0 ± 100.0	2.0 2.9 2.9 ± 0.3 2.61	40.0 40.0 40	1200.0 780.0 780 ± 120 (1235) 720.0 ± 122.0	L = 0 L = 0 WGO = 0.37 ± 0.04 GFS = 51.7 WGO = 0.4 ± 0.046	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B
63.4		800.0 ± 100.0		521.0 ± 111.0	276.0 ± 50.2	WGO = 0.22 ± 0.018	71KOLAR-B
63.85			0.253		0 20		76BLONS-M
64.52 64.52 ± 0.06 64.52 64.54 64.5 64.38	2.5 2.5	316.25 316.25 600.0 ± 200.0	0.25 0.25 ± 0.06 0.19 0.1	40.0 40.0 276 ± 50 373.0 ± 216.0	276.0 276.0 225.0 ± 81.8 0 31	L = 0 L = 0 WGO = 0.031 ± 0.008 GFS = 2.2 WGO = 0.08 ± 0.008	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
65.68 65.66	2.5 2.5	344.26 344.4	5.26 5.4	39.0 39.0	300.0 300.0	L = 0 L = 0	JENDL-2 JENDL-1

ENERGY (EV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
65.66 ± 0.06 65.68 65.61 65.59		343 ±20 324 367.0 ± 7.0	5.40 ± 0.14 5.26 5.221	39 ±12 33 39.2 ±12.2	300 ±20 286 322.0 ±10.1 256 6	WGO = 0.666 ± 0.017 L = 92.4 WGO = 0.7 ± 0.016	BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
66.55 66.51 ± 0.06 66.51 66.55 66.43 66.48	2.5 2.5	243.04 195.04 195 ±22 173 216.0 ± 8.0	3.04 3.04 3.04 3.04 3.897	40.0 40.0 (40)	200.0 152.0 152 1116 -12 -20	L = 0 L = 0 WGO = 0.371 GFS = 40.0	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
67.44 67.44 ± 0.06 67.36 67.6	2.5	120.32 400.0 ±150.0	0.32 0.32 ± 0.09 0.201	40.0 319.0 ±155.0	80.0 80 ±43 79.9 ±42.7	L = 0 WGO = 0.039 ± 0.011 GFS = 0.8 WGO = 0.05 ± 0.012	JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B
68.22 68.19 ± 0.06 68.19 68.22 68.12 68.3	2.5 2.5	141.18 141.27 141 ±10 149 190.0 ±10.0	1.18 1.27 1.27 ± 0.09 1.18 1.408	40.0 40.0 (40) S2 80.0 ±14.4	100.0 100.0 100 ±10 96 108.0 ±10.4 47 0	L = 0 L = 0 WGO = 0.154 ± 0.011 GFS = 14.6 WGO = 0.18 ± 0.014	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
69.18 69.15 ± 0.06 69.15 69.18 69.1 69.27	2.5 2.5	180.7 101.19 136 ±20 116 156.0 ±18.0	0.7 1.19 1.19 ± 0.12 1.07 1.176	40.0 40.0 (40) S9 91.3 ±20.3	120.0 60.0 60 ±10 56 63.2 ± 9.56 0 11	L = 0 L = 0 WGO = 0.143 ± 0.014 GFS = 9.7 WGO = 0.158 ± 0.014	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
69.9		650.0 ±150.0		14.3 ±244.0	635.0 ±193.0	WGO = 0.03 ± 0.004	71KOLAR-B
71.77 71.77 71.77	2.5	100.07 100	0.07 0.1 0.07	53.0	47.0 47	L = 0 GFS = 0.6	JENDL-2 76BLONS-M 76BLONS-S
71.51		420.0 ±160.0		57.4 ±231.0	362.0 ±167.0	WGO = 0.048 ± 0.008	71KOLAR-B
72.17 72.12 ± 0.07 72.12 72.17 72.03 72.34	2.5 2.5	411.53 411.53 412 ±100 (400) 400.0 ±160.0	1.53 1.53 1.53 ± 0.24 1.54 1.535	40.0 40.0 (40) 34.4 ±231.0	370.0 370.0 370 ±100 (373) 364.0 ±166.0 212 117	L = 0 L = 0 WGO = 0.180 ± 0.028 GFS = 26.0 WGO = 0.18 ± 0.04	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
73.8 73.8 ± 0.07 73.80 73.65 73.71 73.96	2.5 2.5	53.5 53.5 54 ± 2 42 40.0 ±58.0	0.5 0.5 0.50 ± 0.07 0.49 0.574	40.0 40.0 (40) 26.1 ±51.2	13.0 13.0 13 ± 2 12 13.2 ±19.5 17 0	L = 0 L = 0 WGO = 0.058 ± 0.008 GFS = 2.4 WGO = 0.06 ± 0.012	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
74.92		600.0 ±100.0		69.4 ±203.0	529.0 ±176.0	WGO = 0.068 ± 0.018	71KOLAR-B
75.94 75.94 ± 0.07 75.94 75.97 75.87 75.9	2.5 2.5	159.76 160.0 160 ±13 152 170.0 ±13.0	4.76 5.0 5.0 ± 0.3 4.76 4.93	52.0 52.0 52 ±17 45 59.7 ±16.7	103.0 103.0 103 ±15 102 104.0 ±10.5 81 0	L = 0 L = 0 WGO = 0.57 ± 0.03 GFS = 54.4 WGO = 0.62 ± 0.04	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
77.06 77.06 77.06 77.04 77.1 77.16	2.5 2.5	80.45 80.45 80 300.0 ±13.0	4.45 4.45 5.3 ± 0.9 4.45 4.352	58.0 58.0 (40) 220.0 ±13.9	18.0 18.0 18 72.9 ± 5.04 0 -11	L = 0 L = 0 WGO = 0.60 ± 0.10 GFS = 17.3 WGO = 0.8 ± 0.04	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
77.73 77.73 77.73 77.70 77.8 78.21	2.5 2.5	1698.7 1698.7 800 ±120 (1700) 800.0 ±120.0	1.7 1.7 1.701 1.701 1.509	60.0 60.0 (40)	1637.0 1637.0 11637 1484 20	L = 0 L = 0 WGO = 0.191 GFS = (27.5)	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
80.14 80.14 ± 0.08 80.14 80.13 80.15 80.25	2.5 2.5	124.87 145.4 145 ±30 128 230.0 ±25.0	4.87 5.4 5.4 ± 0.6 4.87 4.869	40.0 40.0 (40) 43 91.2 ±29.8	80.0 100.0 100 ±30 80 132.0 ±16.3 0 51	L = 0 L = 0 WGO = 0.60 ± 0.07 GFS = 49.6 WGO = 0.72 ± 0.04	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
80.9			1.559		2310 0		76BLONS-M
81.36 81.36 ± 0.08 81.36 81.41 81.25 81.55	2.5 2.5	261.8 261.8 262 ±20 252 260.0 ±15.0	6.9 6.9 6.9 ± 0.3 7.26 11.392	40.0 40.0 (40) 49 21.9 ±21.5	215.0 215.0 215 ±20 196 231.0 ±15.4 509 -186	L = 0 L = 0 WGO = 0.77 ± 0.03 GFS = 90.7 WGO = 0.7 ± 0.02	JENDL-2 JENDL-1 BNL 325(31) 71BLONS-S 71KOLAR-B 76BLONS-M
81.98	2.5	1017.8	2.9	40.0	975.0	L = 0	JENDL-2

ENERGY (eV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
81.98 81.98 ± 0.08 82.07 81.8	2.5	1017.9 1018 ±100 (1000) 1000.0 ±80.0	2.9 2.9 ± 0.2 2.601	40.0 (40) 11.7 ±148.0	975.0 975 ±100 (967) 985.0 ±124.0	L = 0 WGO = 0.32 ± 0.02 GFS = (40.0) WGO = 0.34 ± 0.026	JENDL-1 BNL325(3) 71BLONS-S 71KOLAR-B
83.12 83.12 83.12 ± 0.08 83.11 83.13 83.27	2.5 2.5	118.02 118.4 113 ±25 116 180.0 ±25.0	5.02 5.4 5.4 ± 0.3 5.02 4.277	40.0 (40) 73 52 88.0 ±28.1	73.0 73.0 73 ±13 59 85.9 ±12.9 -7 47	L = 0 L = 0 WGO = 0.59 ± 0.03 GFS = 40.0 WGO = 0.66 ± 0.03	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 71KOLAR-B 76BLONS-M
83.6		1000.0					71KOLAR-B
85.35 85.35 85.35 ± 0.08 85.35 85.46	2.5 2.5	200.5 200.5 201 200	3.5 3.5 3.5 ± 0.4 3.48 2.45	52.0 52.0 52 52	145.0 145.0 145 145 0 90	L = 0 L = 0 WGO = 0.38 ± 0.04 GFS = 38.6	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 76BLONS-M
85.52		380.0 ±50.0		75.1 ±66.3	298.0 ±43.6	WGO = 0.7 ± 0.044	71KOLAR-B
85.67 85.67 85.67 ± 0.08 85.67 85.73	2.5 2.5	272.8 272.8 273 ±50 200	2.8 2.8 2.8 ± 0.3 2.81 3.463	40.0 40.0 (40) 39	230.0 230.0 230 ±50 158 168 0	L = 0 L = 0 WGO = 0.30 ± 0.03 GFS = 33.7	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 76BLONS-M
86.0 86.0 86.00 ± 0.09 86.09 85.9 86.12	2.5 2.5	350.72 350.72 350 ±50 (300) 400.0	0.72 0.72 0.721 0.721 1.25	40.0 40.0 (40)	310.0 310.0 310 ±50 (247) -417 -150	L = 0 L = 0 WGO = (0.07) GFS = (9.0)	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 71KOLAR-B 76BLONS-M
86.93 86.93 86.93 ± 0.09 86.93 86.94 87.04	2.5 2.5	130.4 130.4 130 ±20 110 180.0 ±10.0	7.4 7.4 7.4 ± 0.3 7.23 6.652	43.0 43.0 43 43 70.1 ±11.8	80.0 80.0 80 ±20 60 102.0 ± 6.4 0 48	L = 0 L = 0 WGO = 0.79 ± 0.03 GFS = 59.4 WGO = 0.84 ± 0.02	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 71KOLAR-B 76BLONS-M
87.8 87.8 87.80 ± 0.09 87.79 87.83 88.04	2.5 2.5	322.35 322.35 322 ±50 260 370.0 ±60.0	2.35 2.35 2.35 ± 0.13 2.30 2.176	40.0 40.0 (40) 36 25.6 ±86.9	280.0 280.0 280 ±50 222 341.0 ±62.8 256 64	L = 0 L = 0 WGO = 0.25 ± 0.01 GFS = 29.2 WGO = 0.26 ± 0.02	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 71KOLAR-B 76BLONS-M
89.12 89.12 89.12 ± 0.09 89.20 88.96 89.15	2.5 2.5	792.23 792.23 792 ±150 (800) 780.0 ±150.0	2.23 2.23 2.23 ± 0.18 2.20 2.086	40.0 40.0 (40) 17.8 ±227.0	750.0 750.0 750 ±150 (745) 759.0 ±170.0 -500 281	L = 0 L = 0 WGO = 0.236 ± 0.019 GFS = 30.0 WGO = 0.24 ± 0.026	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 71KOLAR-B 76BLONS-M
89.66			0.253		0 -148		76BLONS-M
90.6 90.54 90.54 ± 0.10 90.60 90.44 90.76	2.5 2.5	216.7 217.7 218 ±40 250 360.0 ±100.0	1.7 2.7 2.7 ± 0.4 1.701 2.165	40.0 40.0 (40) 194.0 ±110.0	175.0 175.0 175 ±40 (185) 162.0 ±45.7 -3 -129	L = 0 L = 0 WGO = 0.28 ± 0.04 GFS = 18.1 WGO = 0.32 ± 0.02	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 71KOLAR-B 76BLONS-M
91.4 91.34 91.29 91.4 91.4	2.5	60.1 60	0.1 0.07 0.1	39.0	21.0 21	L = 0 GFS = 0.5 GFS = 0.5	JENDL-2 BNL325(3) 71BLONS-S 76BLONS-M 76BLONS-S
91.45		400.0					71KOLAR-B
91.88 91.74 91.74 91.88 91.88	2.5	60.12 60	0.12 0.1 0.12	35.0	25.0 25	L = 0 GFS = 0.9 GFS = 0.7	JENDL-2 BNL325(3) 71BLONS-S 76BLONS-M 76BLONS-S
93.77 93.71 93.71 ± 0.10 93.77 93.59 93.84	2.5 2.5	296.4 296.4 296 ±100.0 500.0	0.4 0.4 0.36 ± 0.14 0.40 0.33	46.0 46.0 46 -396.0 ±633.0	250.0 250.0 250 ±625.0 895.0 0	L = 0 L = 0 WGO = 0.037 ± 0.015 GFS = 4.7 WGO = 0.03 ± 0.02	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 71KOLAR-B 76BLONS-M
94.47 94.47		140	0.19 0.18		73	GFS = 1.3	76BLONS-M 76BLONS-S
95.24 95.24 95.24 ± 0.10 95.28 95.15	2.5 2.5	683.6 683.6 550.0 ±50.0	0.6 0.6 0.49 ± 0.20 0.601	40.0 40.0 -497.0 ±436.0	643.0 643.0 1040.0 ±433.0	L = 0 L = 0 WGO = 0.050 ± 0.020 GFS = 7.7 WGO = 0.05 ± 0.02	JENDL-2 JENDL-1 BNL325(3) 71BLONS-S 71KOLAR-B

ENERGY (eV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	OPERA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
95.42			0.926		59 280		76BLONS-M
96.18	2.5	1041.5	1.5	40.0	1000.0	L = 0	JENDL-2
96.12	2.5	959.67	1.67	40.0	818.0	L = 0	JENDL-1
96.12 ± 0.10		960 ±60	1.67 ± 0.20	40	813 ±100	GFS = (19.1)	BNL 325(31)
96.18		11100	1.501		11032	WGO = 0.17 ± 0.02	71BLONS-S
96.0		800.0 ±60.0		268.0 ±97.5	529.0 ±76.9		71KOLAR-B
96.12			0.392		19 69		76BLONS-M
96.55			0.542		355 5		76BLONS-M
97.53	2.5	499.85	0.85	40.0	459.0	L = 0	JENDL-2
97.53	2.5	499.59	0.59	40.0	459.0	L = 0	JENDL-1
97.53 ± 0.11		500 ±50	0.59 ± 0.18	40	459 ±50	WGO = 0.17 ± 0.02	BNL 325(31)
97.65		450	0.85		430	GFS = 11.0	71BLONS-S
97.29		550.0 ±50.0		-515.0 ±341.0	1050.0 ±337.0	WGO = 0.06 ± 0.018	71KOLAR-B
97.58			0.618		0 271		76BLONS-M
98.28	2.5	193.28	7.28	40.0	146.0	L = 0	JENDL-2
98.28	2.5	193.3	7.3	40.0	146.0	L = 0	JENDL-1
98.28 ± 0.11		193 ±10	7.30 ± 0.16	40	146 ±10	WGO = 0.736 ± 0.016	BNL 325(31)
98.26		194	7.28	40	147	GFS = 73.5	71BLONS-S
98.29		200.0 ±10.0		46.9 ±17.9	145.0 ± 8.2	WGO = 0.74 ± 0.016	71KOLAR-B
98.41			7.638		171 18		76BLONS-M
99.74	2.5	350.16	2.16	18.0	330.0	L = 0	JENDL-2
99.66	2.5	350.16	2.16	18.0	330.0	L = 0	JENDL-1
99.66 ± 0.11			1.81 ± 0.14			WGO = 0.181 ± 0.014	BNL 325(31)
99.74		350	2.16	18	330	GFS = 26.7	71BLONS-S
99.5		250.0 ±50.0		26.9 ±70.2	221.0 ±49.2	WGO = 0.16 ± 0.014	71KOLAR-B
99.78			2.832		387 74		76BLONS-M
100.5	2.5	55.6	1.3	40.0	14.3	L = 0	JENDL-2
100.5	2.5	55.6	1.3	40.0	14.3	L = 0	JENDL-1
100.50			1.3			WGO = (0.13)	BNL 325(31)
100.50			1.301			GFS = 14.3	71BLONS-S
100.7			0.4			GFS = (14.3)	76BLONS-M
100.7		300	0.4		232	GFS = 4.0	76BLONS-S
101.42	2.5	147.61	1.61	72.0	74.0	L = 0	JENDL-2
101.42	2.5	147.61	1.61	72.0	74.0	L = 0	JENDL-1
101.42		1148	1.61	72	74	WGO = 0.160	BNL 325(31)
101.42		1148	1.61	72	74	GFS = 10.3	71BLONS-S
101.61			1.021		42 5		76BLONS-M
102.33	2.5	58.7	1.4	40.0	17.3	L = 0	JENDL-2
102.33	2.5	58.7	1.4	40.0	17.3	L = 0	JENDL-1
102.33			1.401			WGO = (0.13)	BNL 325(31)
102.33			1.401			GFS = 17.3	71BLONS-S
102.38			1.519		876 0	GFS = (17.3)	76BLONS-M
103.52	2.5	48.73	1.53	40.0	7.2	L = 0	JENDL-2
103.52	2.5	48.73	1.53	40.0	7.2	L = 0	JENDL-1
103.52			1.53			WGO = 0.150	BNL 325(31)
103.52			1.53			GFS = 7.2	71BLONS-S
103.66			1.283		0 21	GFS = 7.2	76BLONS-M
107.54	2.5	41.2	0.5	40.0	0.7	L = 0	JENDL-2
107.54	2.5	41.2	0.5	40.0	0.7	L = 0	JENDL-1
107.54			0.50			WGO = 0.048	BNL 325(31)
107.54			0.50			GFS = 0.7	71BLONS-S
107.85	2.5	92.2	1.2	40.0	51.0	L = 0	JENDL-2
107.85	2.5	92.2	1.2	40.0	51.0	L = 0	JENDL-1
107.85		84	1.20		51	WGO = 0.116	BNL 325(31)
107.85		84	1.20		51	GFS = 8.8	71BLONS-S
109.05	2.5	491.92	1.92	40.0	450	L = 0	JENDL-2
109.05	2.5	491.92	1.92	40.0	450.0	L = 0	JENDL-1
109.05		470	1.92		450	WGO = 0.184	BNL 325(31)
109.05		470	1.92		450	GFS = 22.0	71BLONS-S
110.2	2.5	791.45	0.45	40.0	751.0	L = 0	JENDL-2
110.2	2.5	791.45	0.45	40.0	751.0	L = 0	JENDL-1
110.20		800	0.45		751	WGO = 0.043	BNL 325(31)
110.20		800	0.45		751	GFS = 5.0	71BLONS-S
113.13	2.5	86.75	0.75	40.0	46.0	L = 0	JENDL-2
113.13	2.5	86.75	0.75	40.0	46.0	L = 0	JENDL-1
113.13		80	0.75	34	46	WGO = 0.071	BNL 325(31)
113.13		80	0.75	34	46	GFS = 5.0	71BLONS-S
115.4	2.5	1581.7	1.7	40.0	1540.0	L = 0	JENDL-2
115.4	2.5	1581.7	1.7	40.0	1540.0	L = 0	JENDL-1
115.40		11600	1.701		11540	WGO = 0.158	BNL 325(31)
115.40		11600	1.701		11540	GFS = 18.5	71BLONS-S
117.23	2.5	357.48	3.48	40.0	314	L = 0	JENDL-2
117.23	2.5	357.48	3.48	40.0	314.0	L = 0	JENDL-1
117.23		360	3.48	43	314	WGO = 0.321	BNL 325(31)
117.23		360	3.48	43	314	GFS = 33.8	71BLONS-S

ENERGY (eV)	J	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	GRAPPA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
120.33	2.5	545.8	0.8	40.0	505.0	L = 0	JENDL-2
120.33	2.5	545.8	0.8	40.0	505.0	L = 0	JENDL-1
120.33		1500	0.80		505	WGO = 0.0729	BNL 325(3)
120.33		1500	0.80		1505	GFS = 7.3	71BLONS-5
122.11	2.5	465.95	6.95	40.0	419	L = 0	JENDL-2
122.11	2.5	465.95	6.95	40.0	419.0	L = 0	JENDL-1
122.11		480	6.95	54	419	WGO = 0.629	BNL 325(3)
122.11		480	6.95	54	419	GFS = 64.9	71BLONS-5
123.24	2.5	101.35	2.35	40.0	59.0	L = 0	JENDL-2
123.24	2.5	101.35	2.35	40.0	59.0	L = 0	JENDL-1
123.24		105	2.35	43	59	WGO = 0.212	BNL 325(3)
123.24		105	2.35	43	59	GFS = 14.1	71BLONS-5

* A denotes $2g\Gamma_n$.

** B and C denote $\Gamma_f^{(1)}$ and $\Gamma_f^{(2)}$ in Reich-Moore Formula.

*** L : orbital angular momentum

$$WGO : 2g\Gamma_n^{(0)} \quad (\text{meV})$$

$$GFS : \sigma_0 \Gamma_f \quad (\text{b}\cdot\text{eV})$$

$$S : \sigma_0 \quad (\text{b})$$

$$WGH : g\Gamma_n^{(0)} \quad (\text{meV})$$

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S and M denotes single-level Breit-Wigner and multi-level
Reich-Moore parameters, respectively

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S and M denotes single-level Breit-Wigner and multi-level
Reich-Moore parameters, respectively

Table 3 Average cross sections and resonance integrals of ^{241}Pu .

Fission cross section		(barns)					
E_{\min} (eV)	E_{\max} (eV)	Calculated			Experimental		
		with B.C.S.	without B.C.S.	Blons ^{16)*}	Migneco ¹⁸⁾	James ¹⁹⁾	Weston ⁹⁾
10	20	149.1	147.2	145.9	146.8	-	151.7
20	30	83.9	86.3	81.5	82.9	74.9	86.2
30	40	49.1	50.1	46.6	46.5	45.0	49.3
40	50	40.6	41.5	38.9	36.5	41.0	43.7
50	60	16.7	17.3	15.9	16.8	20.3	17.5
60	70	56.7	59.1	53.8	56.5	59.0	58.7
70	80	22.6	21.6	24.8	28.9	28.7	25.7
80	90	68.9	68.3	65.6	68.6	64.5	73.7
90	100	25.4	25.4	24.9	27.7	31.3	27.2

* Average value of the results with 11 and 50 m flight paths.

Capture cross section		(barns)			
E_{\min} (eV)	E_{\max} (eV)	Calculated		Experimental (Weston and Todd ⁹⁾)	
		with B.C.S.	without B.C.S.	α	σ_c
10	20	81.8	69.7	0.559	83.3 ± 5.0
20	30	18.7	16.7	0.213	17.9 ± 1.1
30	40	10.7	10.7	0.216	10.6 ± 0.6
40	50	7.38	4.49	0.184	7.47 ± 0.44
50	60	3.01	1.35	0.198	3.31 ± 0.20
60	70	14.2	7.49	0.279	15.8 ± 0.9
70	80	15.2	15.2	0.572	12.9 ± 0.8
80	90	22.7	20.6	0.337	23.2 ± 1.4
90	100	5.42	4.92	0.207	5.26 ± 0.32

* Deduced from α -values using the presently evaluated fission cross section. Errors are the quoted 6 % errors in α -values.

Resonance integral with cut-off energy of 3 eV					(barns)
Quantity	JENDL-2	JENDL-1	ENDF/B-IV	Eiland et al. ²⁰⁾	
fission	531	524	527	569 ± 37	
capture	172	138	115	162 ± 8	

Table 4 Energy dependence of unresolved resonance parameters and the calculated cross sections.

The energy dependence of the parameters are given as the ratio to the initial guess values listed below:

$$\begin{aligned}
 S_0 &= 0.95 \times 10^{-4}, & S_1 &= 1.4 \times 10^{-4}, & D_{\text{obs}} &= 0.85 \text{ eV}, \\
 \Gamma_f^{(2+)} &= 860 \text{ meV}, & \Gamma_f^{(3+)} &= 370 \text{ meV}, & \Gamma_f^{(1-)} &= 960 \text{ meV}, \\
 \Gamma_f^{(2-)} &= 270 \text{ meV}, & \Gamma_f^{(3-)} &= 600 \text{ meV}, & \Gamma_f^{(4-)} &= 230 \text{ meV}.
 \end{aligned}$$

Fixed parameters: $R = 9.8 \text{ fm}$, $\Gamma_\gamma = 40 \text{ meV}$.

E_n (keV)	S_0, S_1	Γ_f	D	$\sigma_{n,T}$ (barns)	$\sigma_{n,\gamma}$ (barns)	$\sigma_{n,f}$ (barns)
0.10	0.80	1.74	1.00	43.5	5.61	25.4
0.15	1.04	1.22	"	45.4	6.84	25.6
0.25	1.43	1.18	"	47.5	7.08	26.8
0.35	1.40	0.84	"	41.5	6.71	21.0
0.45	1.43	0.72	"	38.4	6.35	18.2
0.55	1.34	0.81	"	34.6	5.12	15.9
0.65	1.05	0.70	"	28.3	4.00	11.2
0.75	0.99	1.17	"	26.3	2.82	10.7
0.85	0.97	1.05	"	25.1	2.71	9.70
0.95	1.17	1.13	"	27.0	2.91	11.1
1.5	1.24	0.88	"	24.7	2.65	8.91
2.5	1.14	1.11	"	21.0	1.69	6.63
3.5	1.28	1.15	0.99	20.7	1.54	6.33
4.5	1.28	1.11	"	19.6	1.37	5.56
5.5	1.20	1.02	"	18.5	1.22	4.70
6.5	1.23	1.34	"	18.1	1.02	4.70
7.5	1.24	0.85	"	17.8	1.17	4.07
8.5	1.28	1.19	0.98	17.6	0.98	4.23
9.5	1.14	1.53	"	16.7	0.76	3.79
15	1.23	1.08	0.97	16.1	0.78	3.20
25	1.19	1.32	0.95	15.0	0.59	2.72
30	1.15	1.61	0.94	14.6	0.50	2.60

Table 5 Level scheme, level density parameters and Q-values.

a) Level scheme of ^{241}Pu .

No.	Energy (keV)	I^π	No.	Energy (keV)	I^π
G.S.	0	5/2 +	6	230.0	9/2 +
1	41.8	7/2 +	7	242.7	7/2 +
2	94.0	9/2 +	8	300	11/2 +
3	161.5	1/2 +	9	335	9/2 +
4	170.8	3/2 +	10	368	13/2 +
5	223.1	5/2 +	11	445	11/2 -

Levels above 490 keV are assumed to be continuum.

b) Level density parameters of Pu isotopes.

Isotope	238	239	240	241	242
a (MeV ⁻¹)	26.44	26.53	26.93	27.40	27.78
σ_M^2/\sqrt{U} (MeV ^{-1/2})	17.54	17.62	17.80	18.00	18.17
Δ (MeV)	1.10	0.61	1.04	0.61	1.11
E_x (MeV)	4.23	3.74	4.17	3.73	4.23
T_n (MeV)	0.412	0.411	0.407	0.403	0.399

c) Q-values and threshold energies of ^{241}Pu .

	Q-value	Threshold energy
(n,2n)	-5.24	5.2619
(n,3n)	-11.77	11.819
(n,4n)	-17.43	17.503

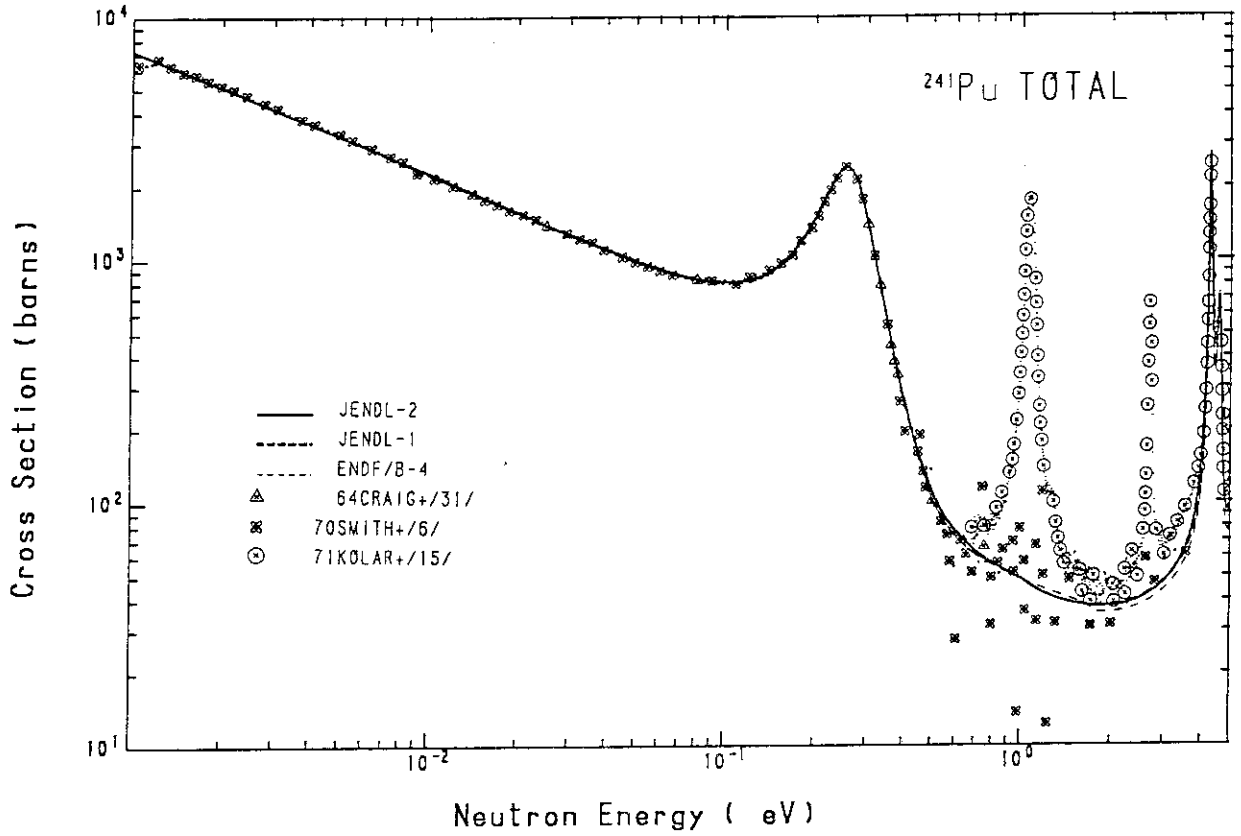


Fig. 1 Total cross section of ^{241}Pu below 5 eV.

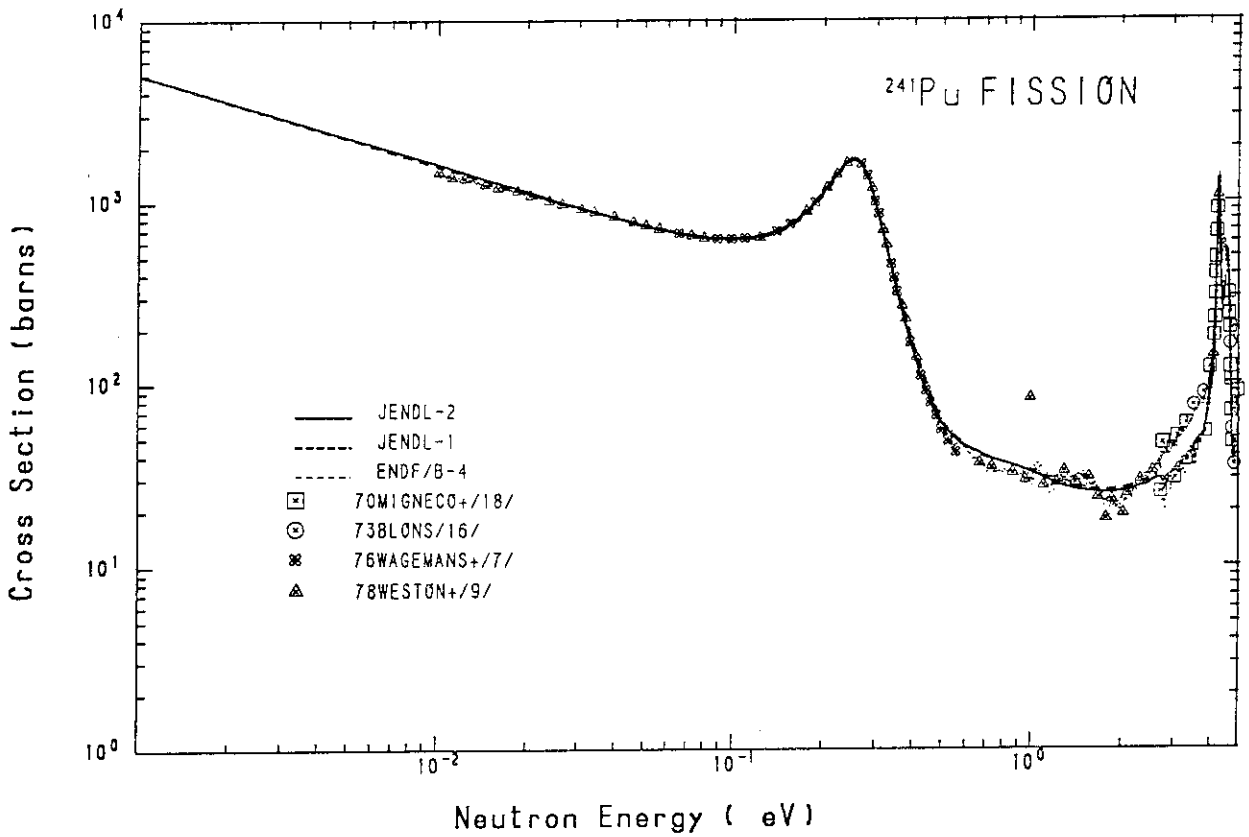


Fig. 2 Fission cross section of ^{241}Pu below 5 eV.

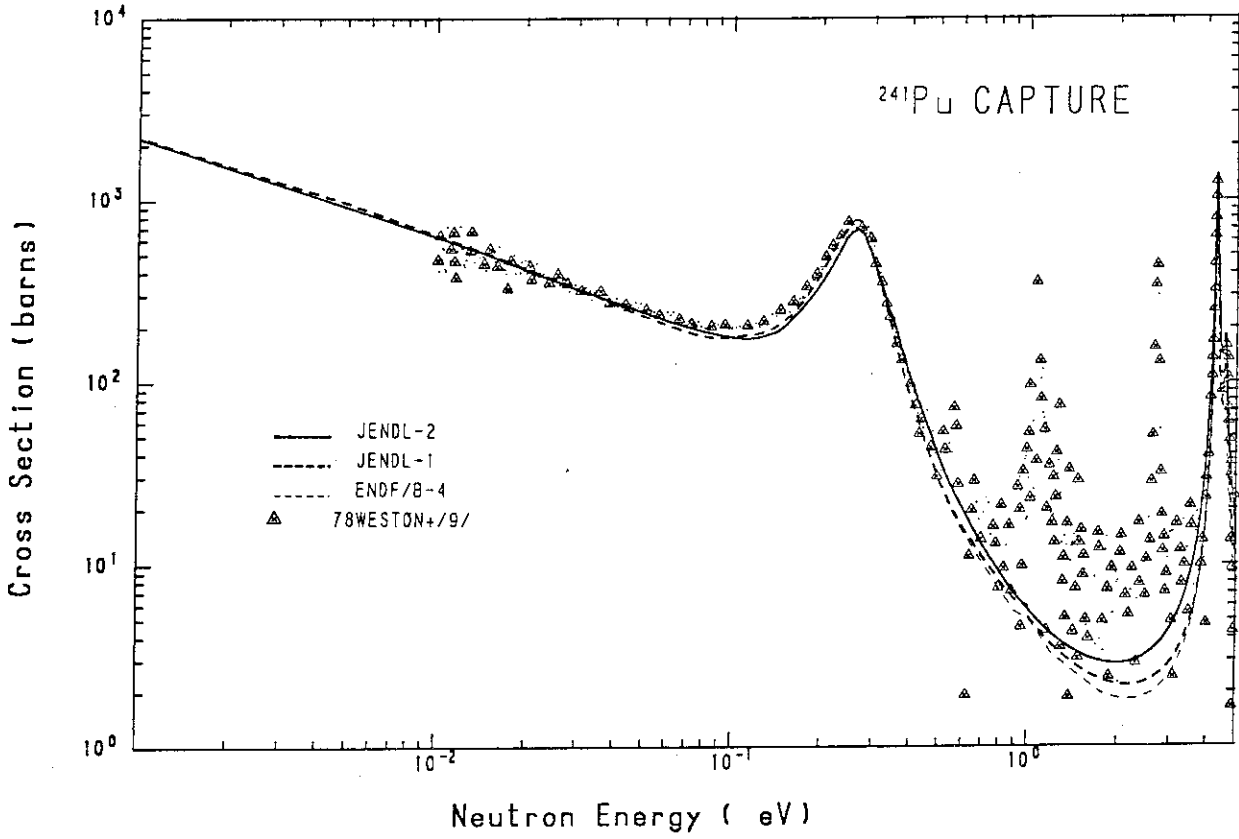


Fig. 3 Capture cross sections of ^{241}Pu below 5 eV.

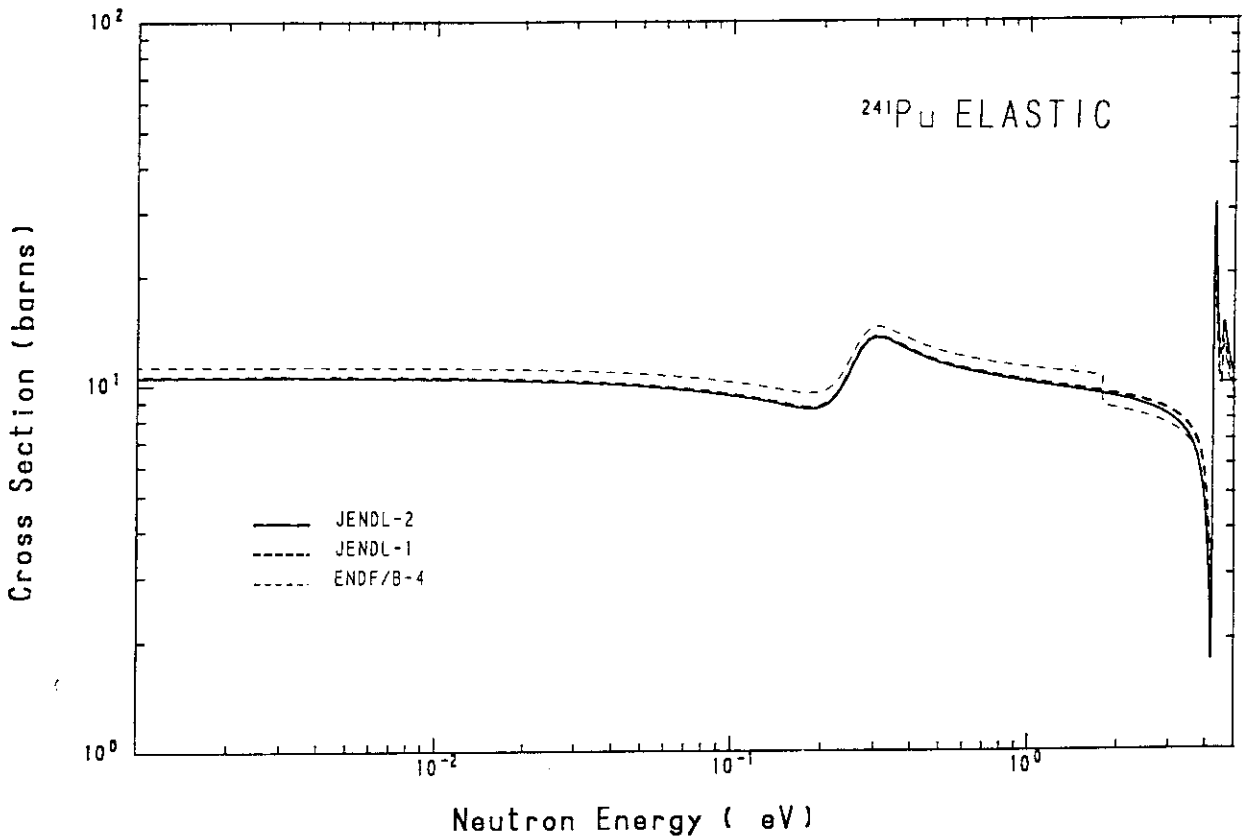


Fig. 4 Elastic scattering cross section of ^{241}Pu below 5 eV.

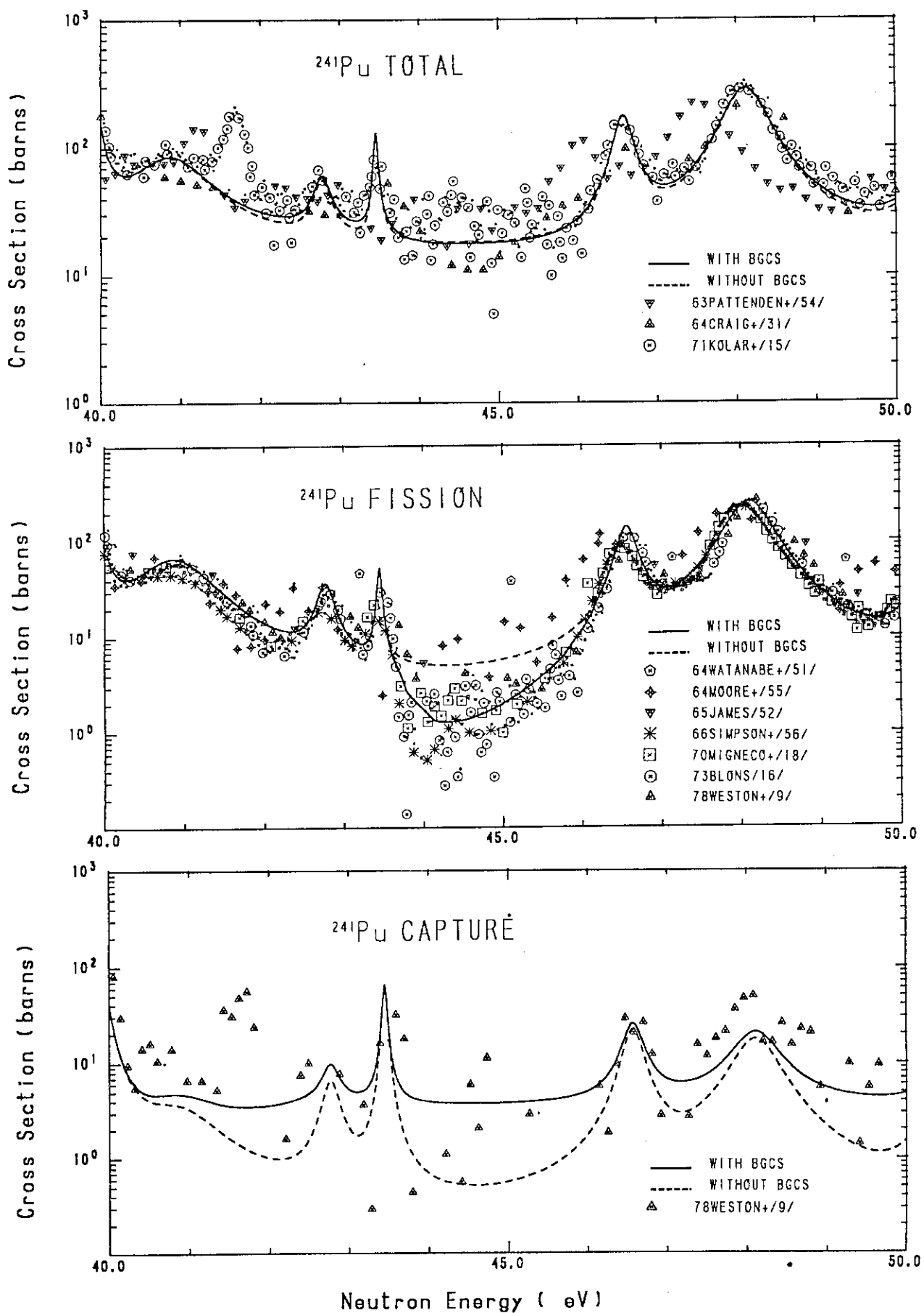


Fig. 5 Total fission and capture cross sections with and without the background cross sections.

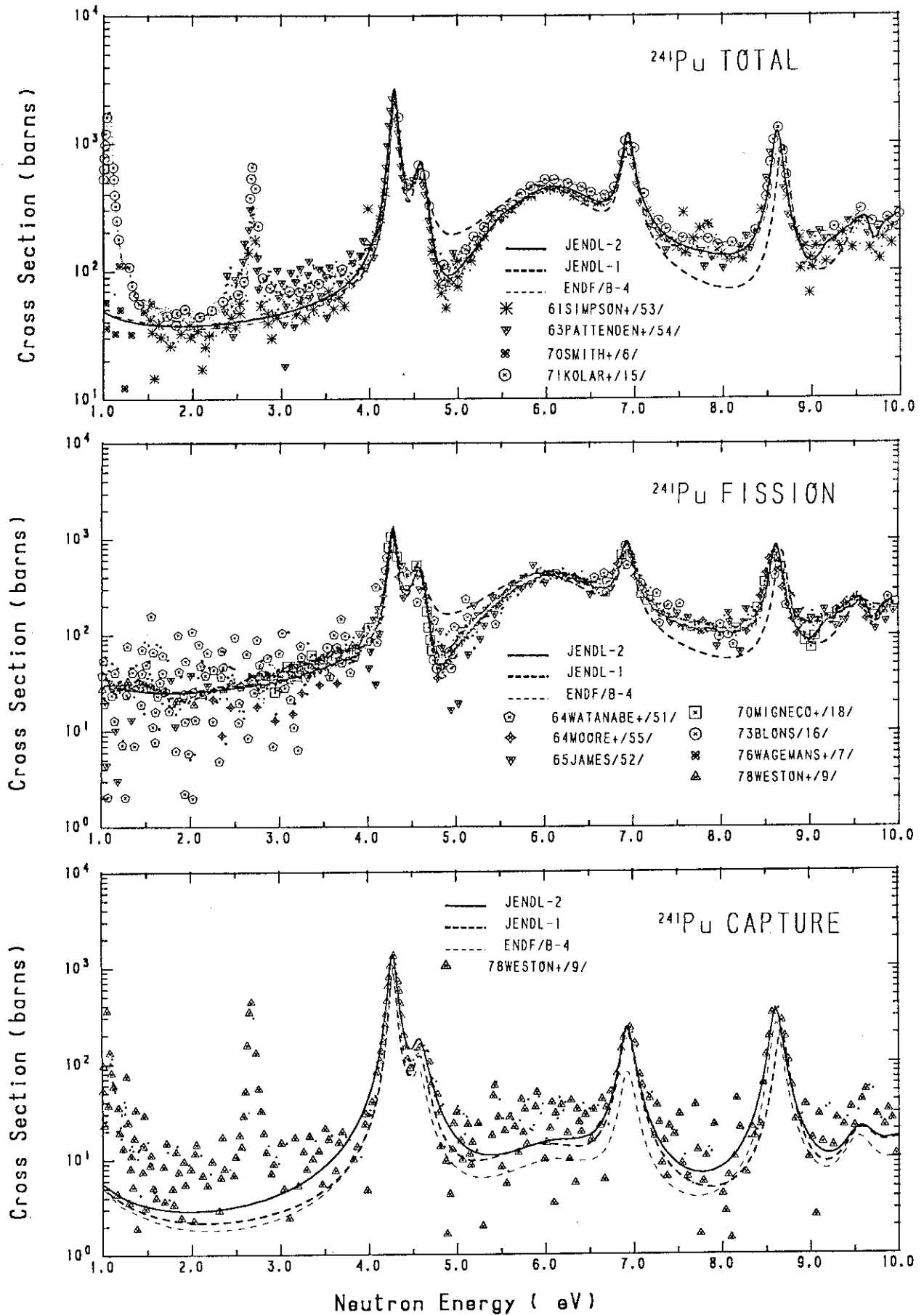


Fig. 6 Total, fission and capture cross sections of ²⁴¹Pu in the energy range from 1 to 10 eV.

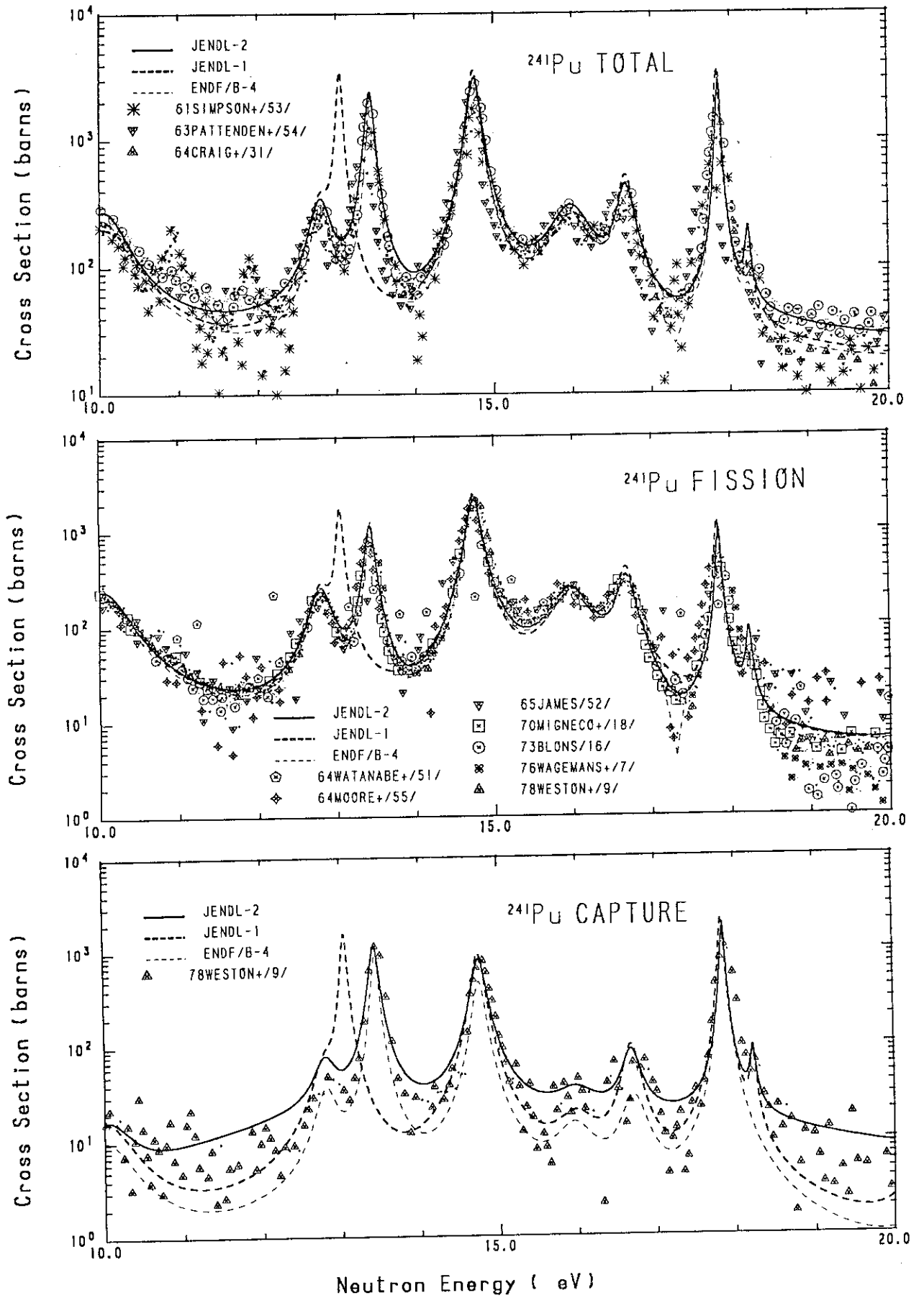


Fig. 7 Total, fission and capture cross sections of ²⁴¹Pu in the energy range from 10 to 20 eV.

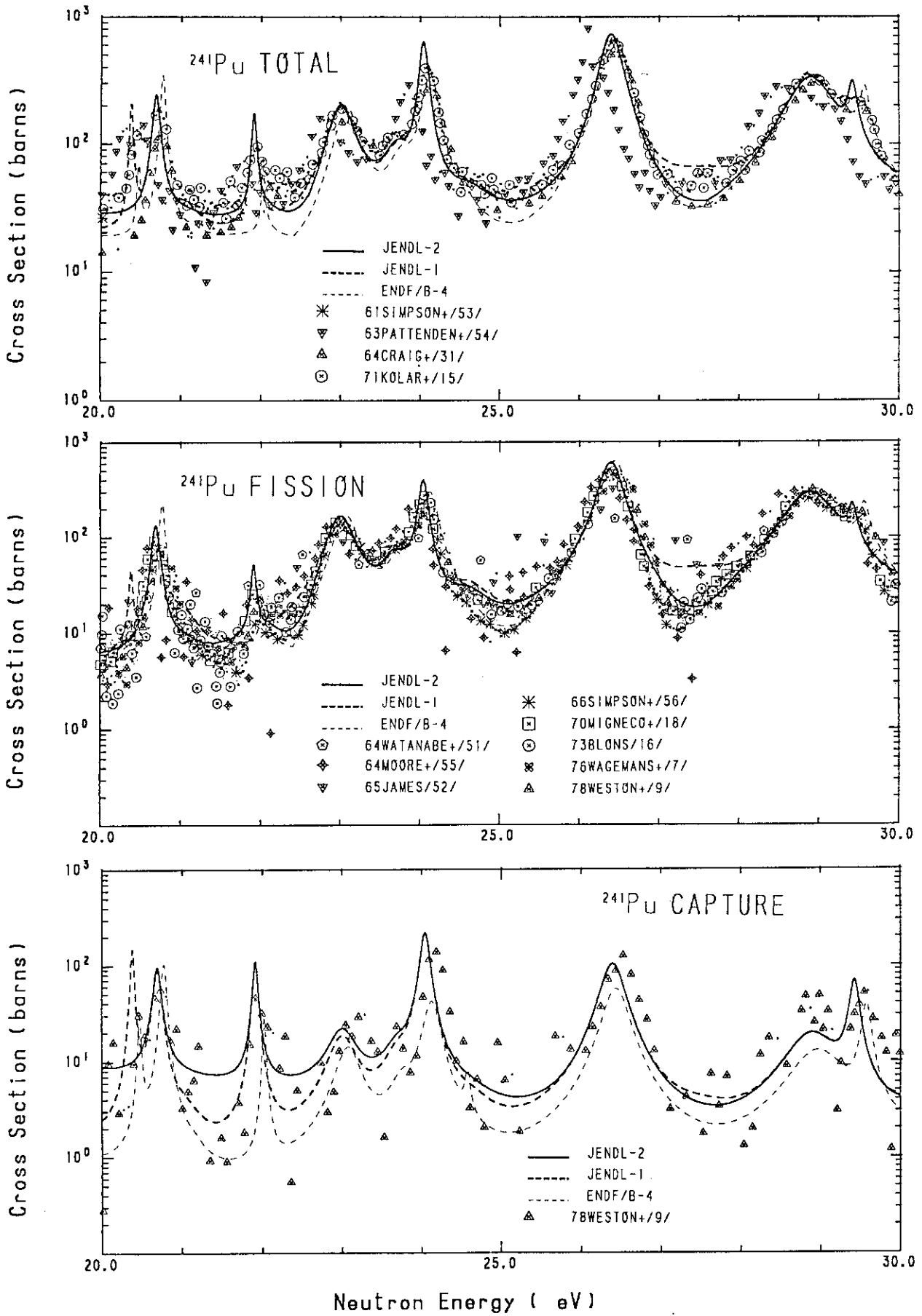


Fig. 8 Total, fission and capture cross sections of ²⁴¹Pu in the energy range from 20 to 30 eV.

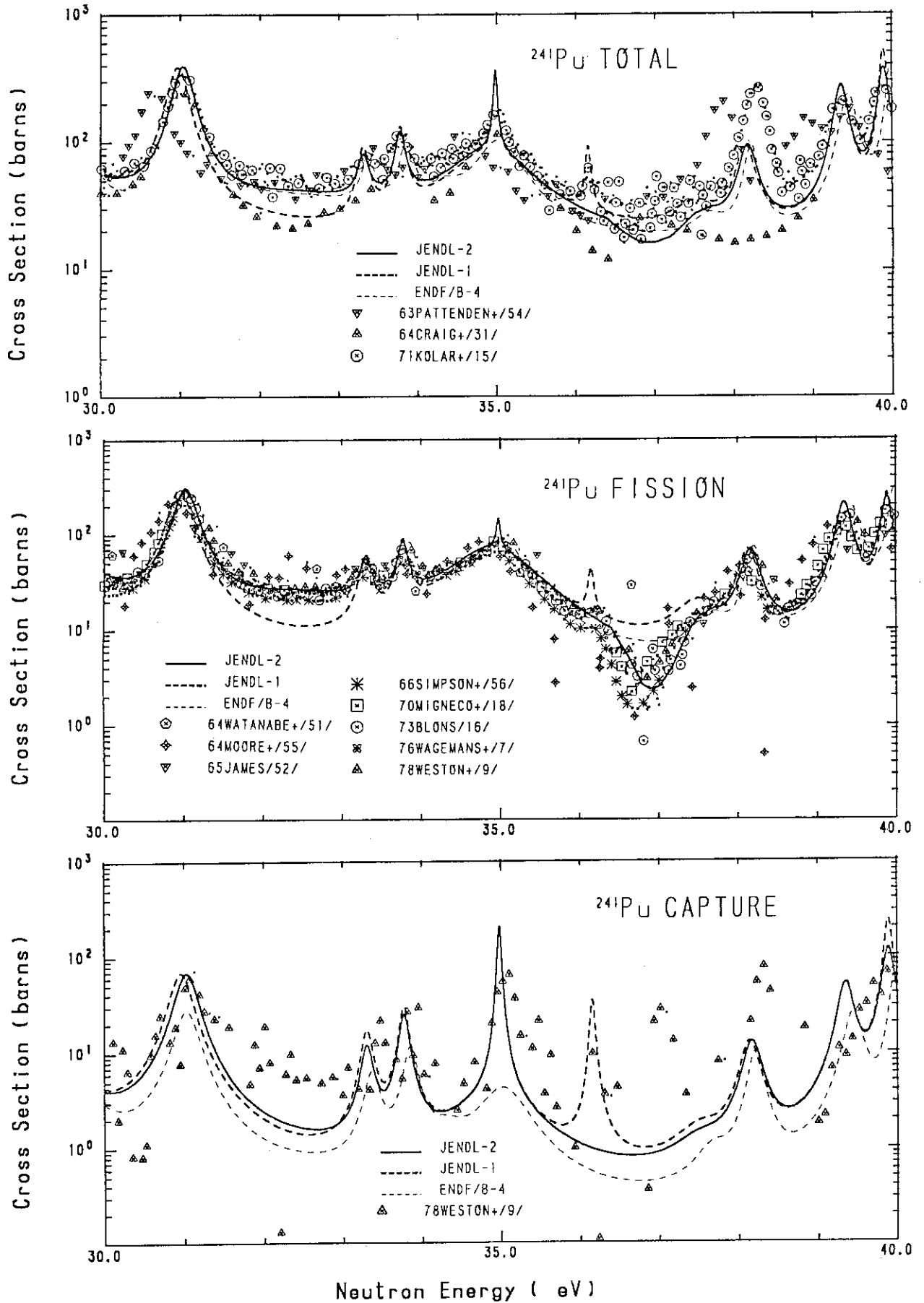


Fig. 9 Total, fission and capture cross sections of ²⁴¹Pu in the energy range from 30 to 40 eV.

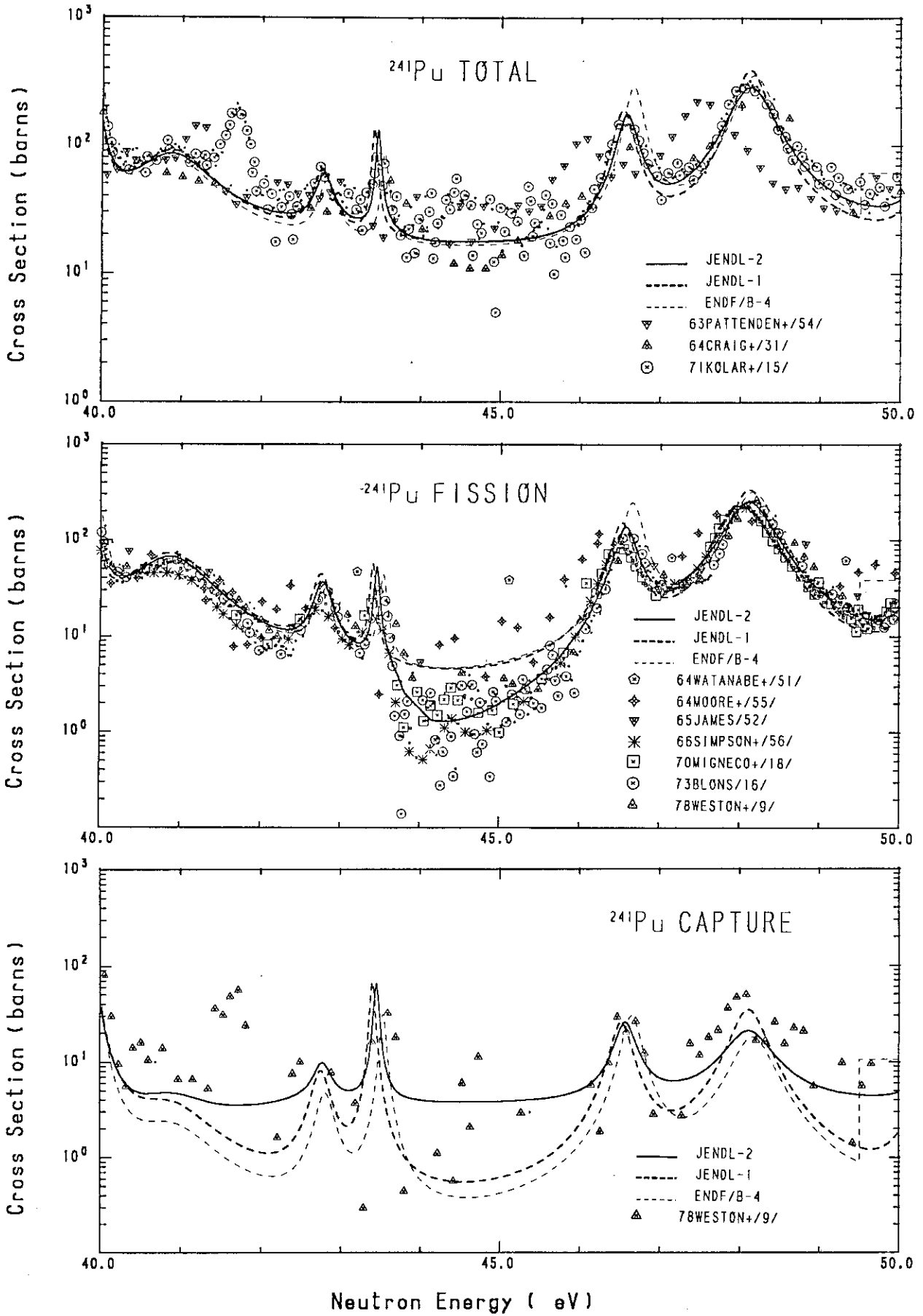


Fig. 10 Total, fission and capture cross sections of ²⁴¹Pu in the energy range from 40 to 50 eV.

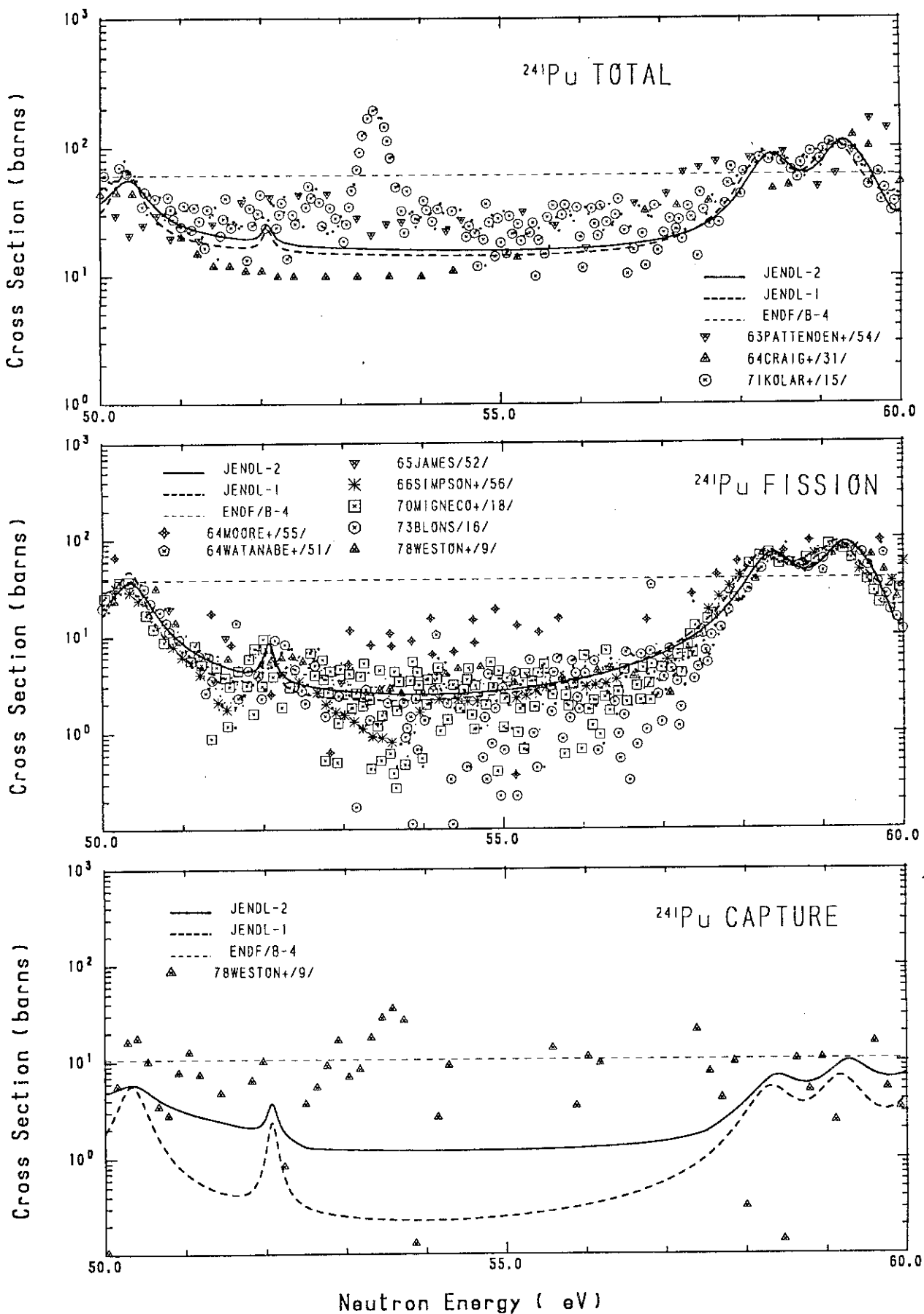


Fig. 11 Total, fission and capture cross sections of ²⁴¹Pu in the energy range from 50 to 60 eV.

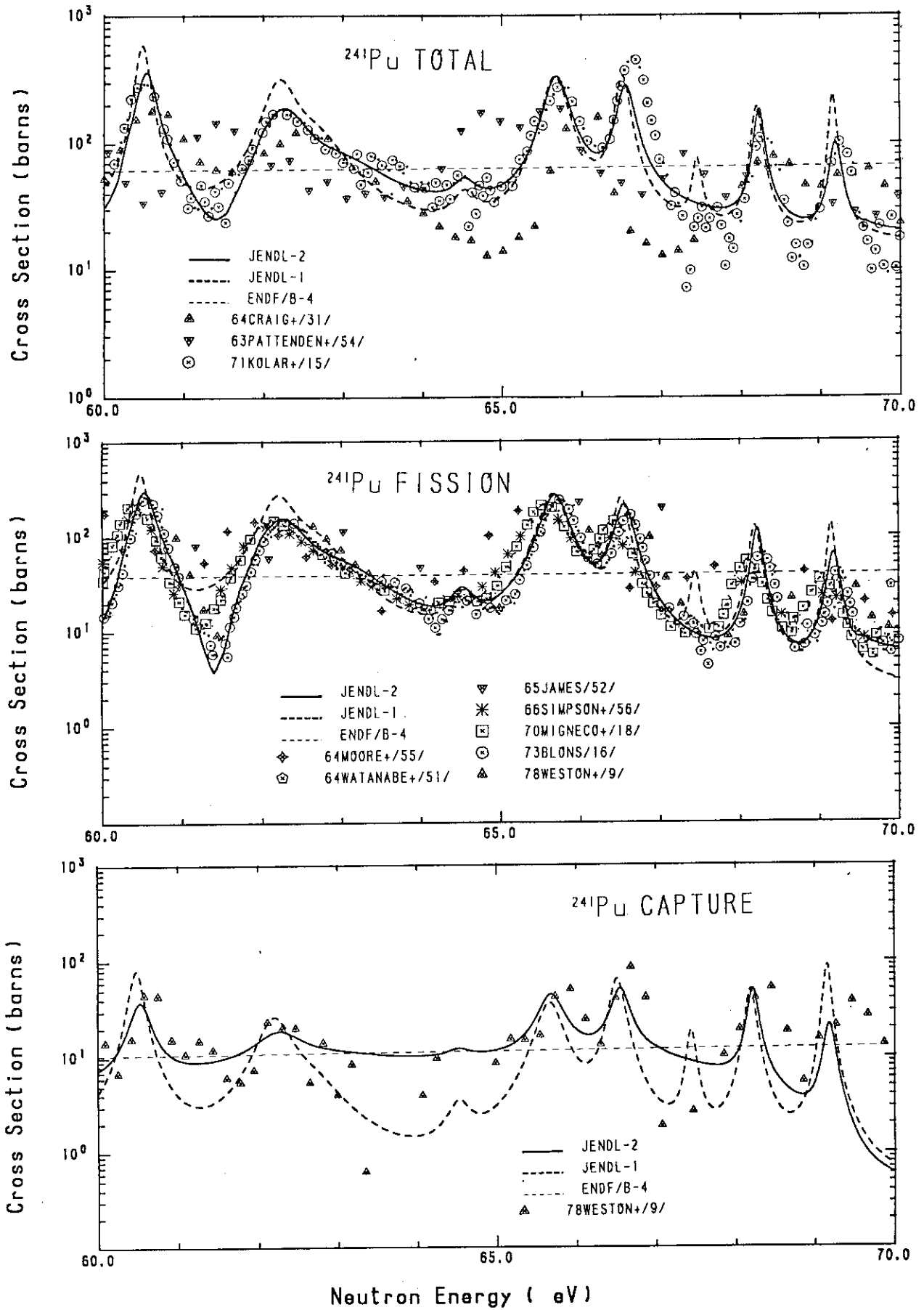


Fig. 12 Total, fission and capture cross sections of ²⁴¹Pu in the energy range from 60 to 70 eV.

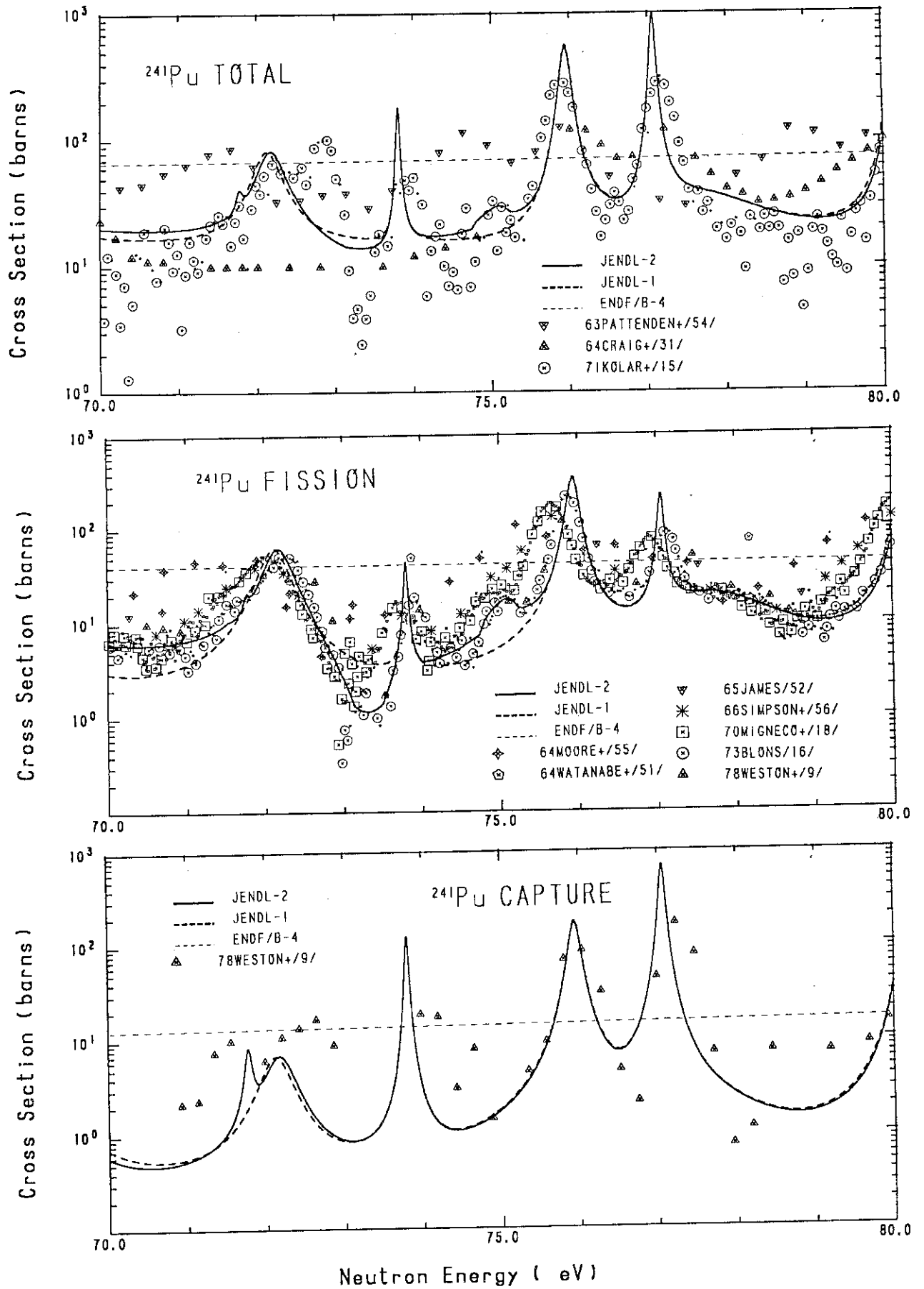


Fig. 13 Total, fission and capture cross sections of ²⁴¹Pu in the energy range from 70 to 80 eV.

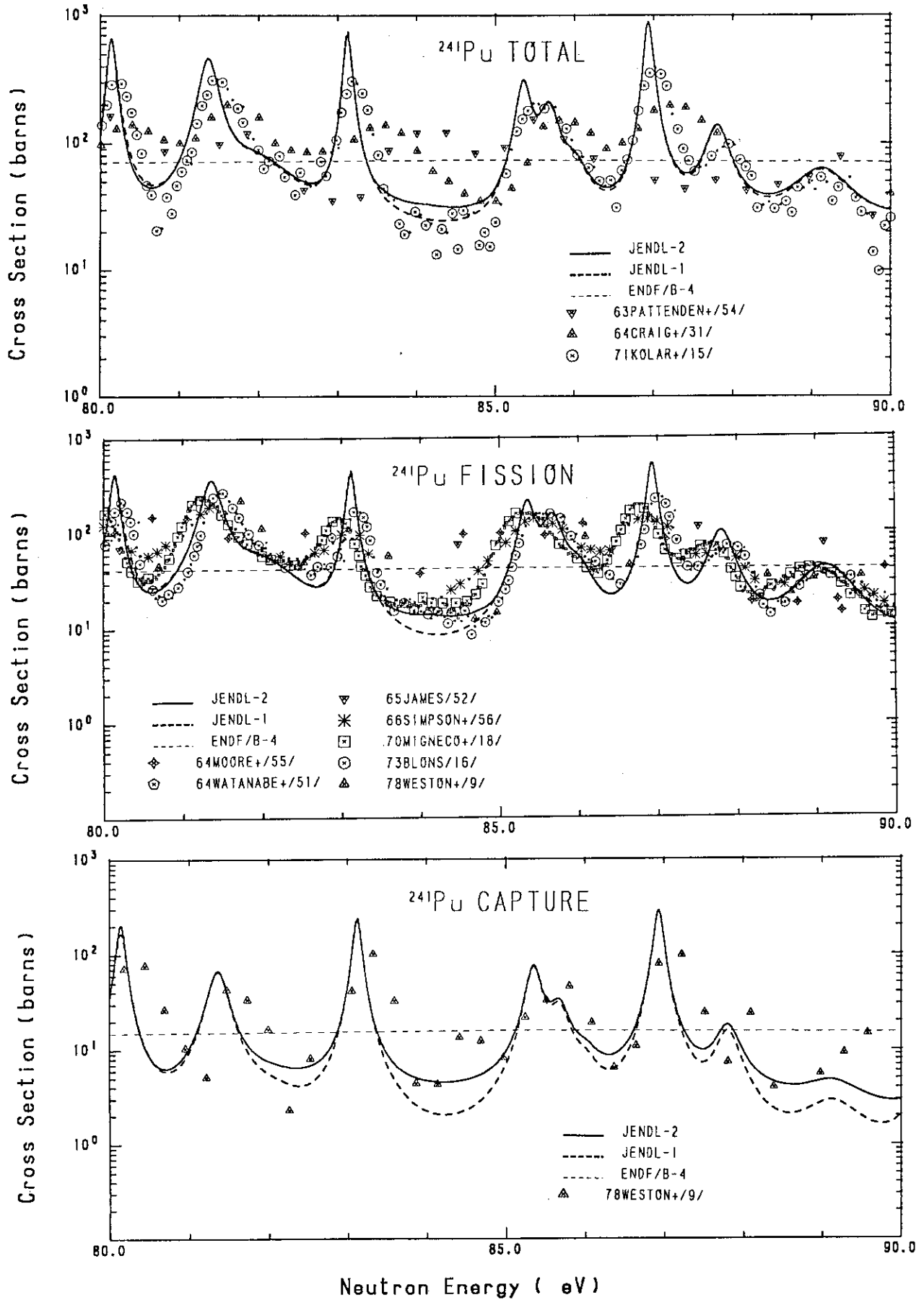


Fig. 14 Total, fission and capture cross sections of ²⁴¹Pu in the energy range from 80 to 90 eV.

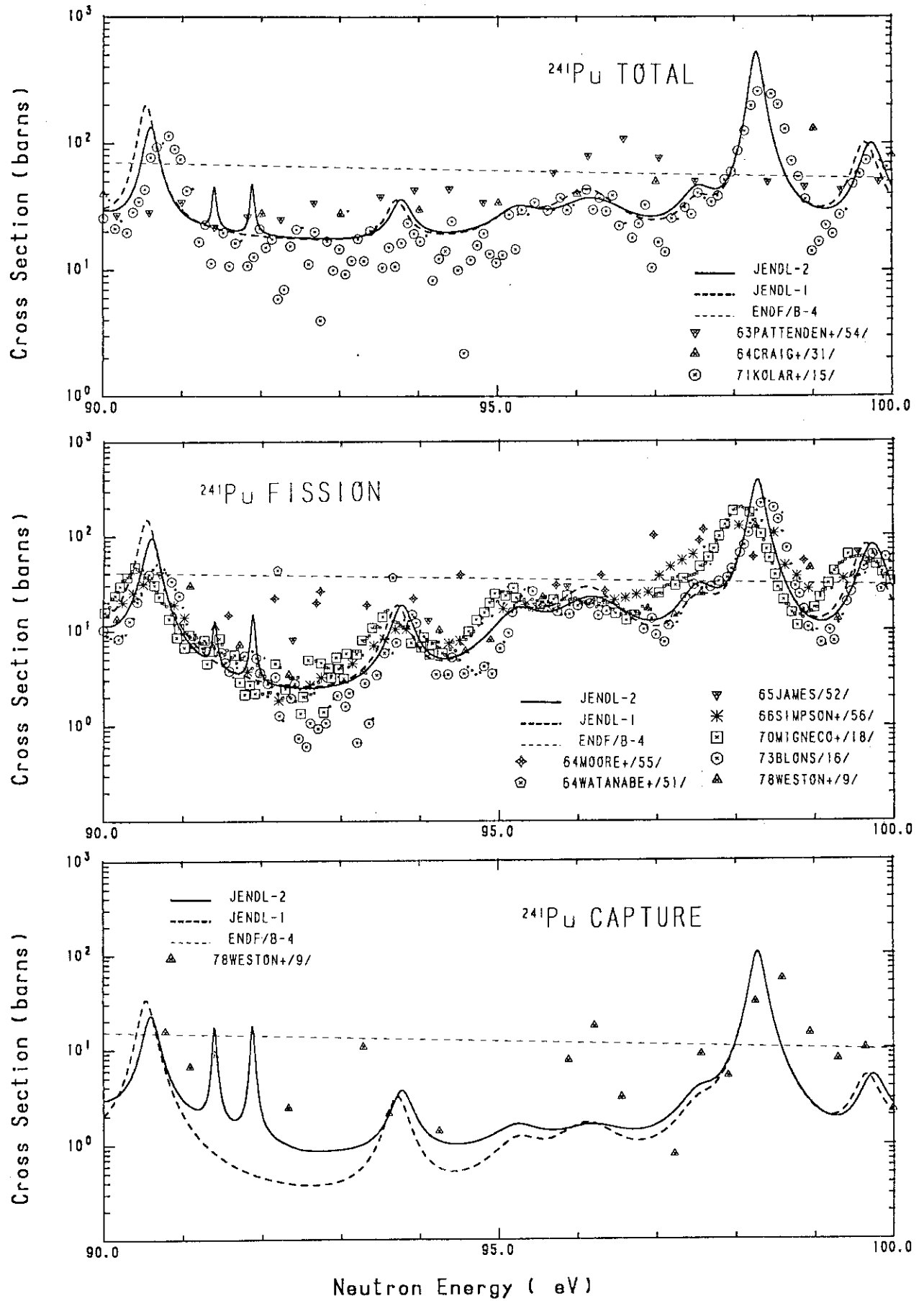


Fig. 15 Total, fission and capture cross sections of ^{241}Pu in the energy range from 90 to 100 eV.

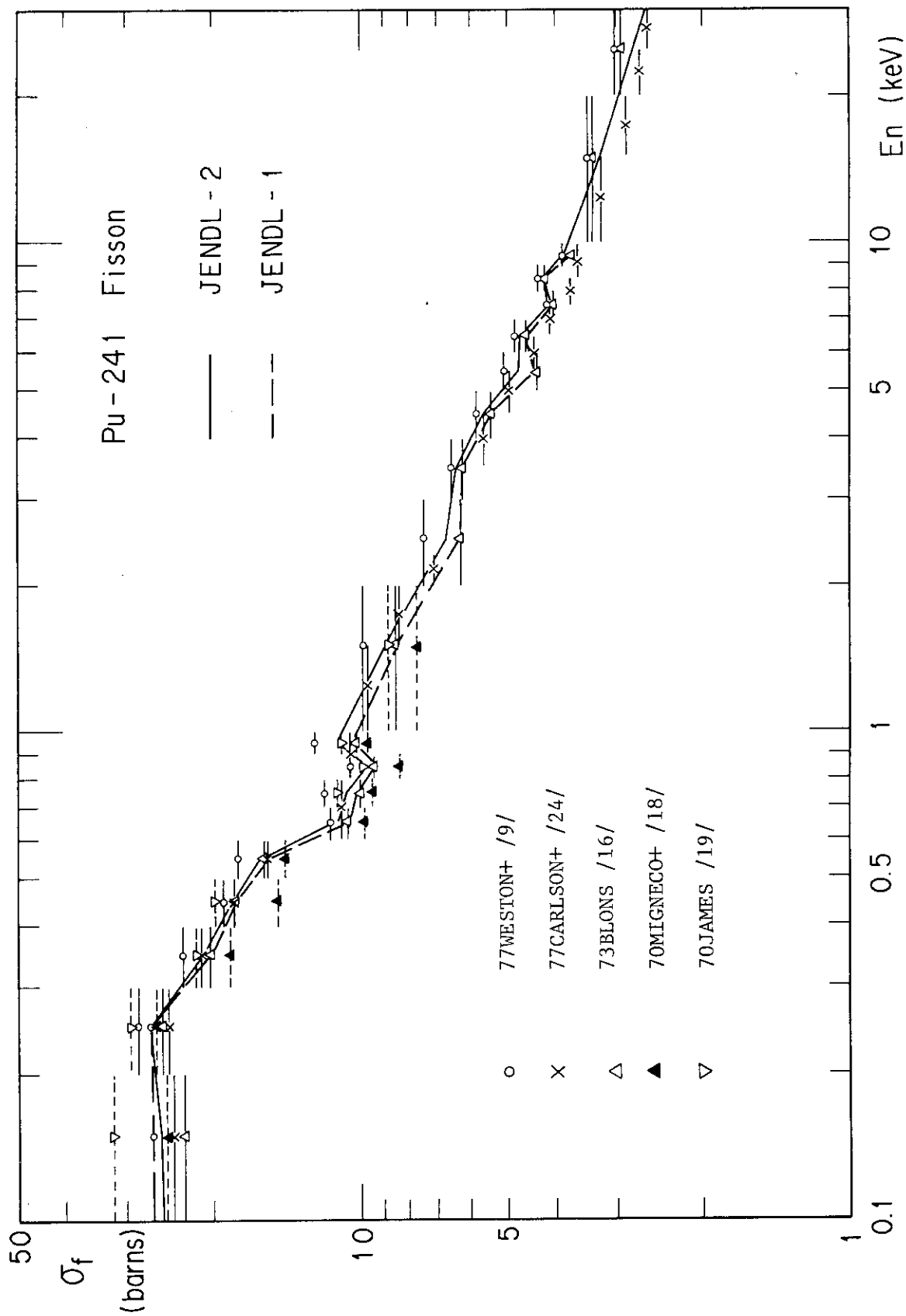


Fig. 16 Fission cross section of ²⁴¹Pu in the energy range from 100 eV to 30 keV.

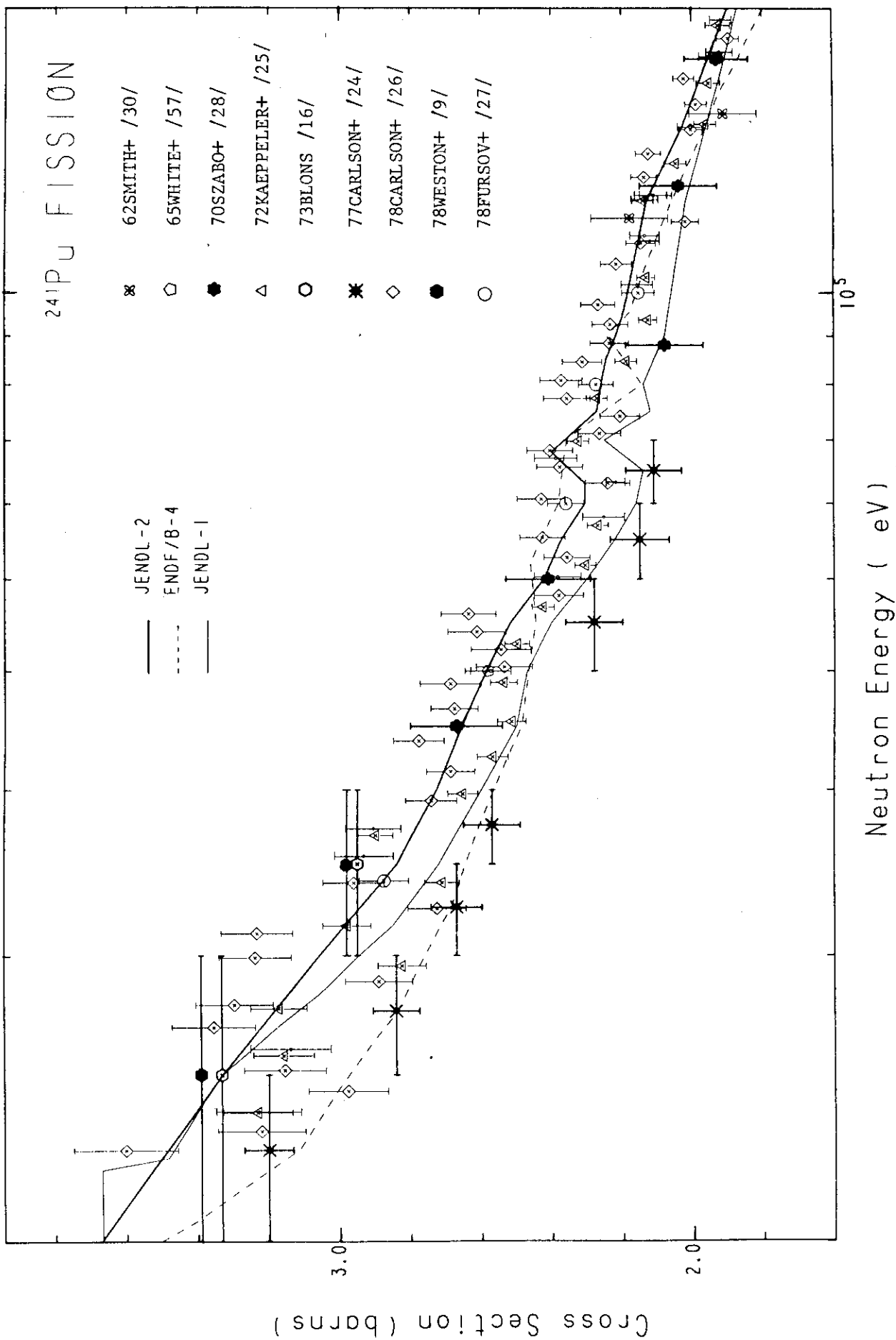


Fig. 17 Fission cross section of ^{241}Pu in the energy range from 10 keV to 200 keV.

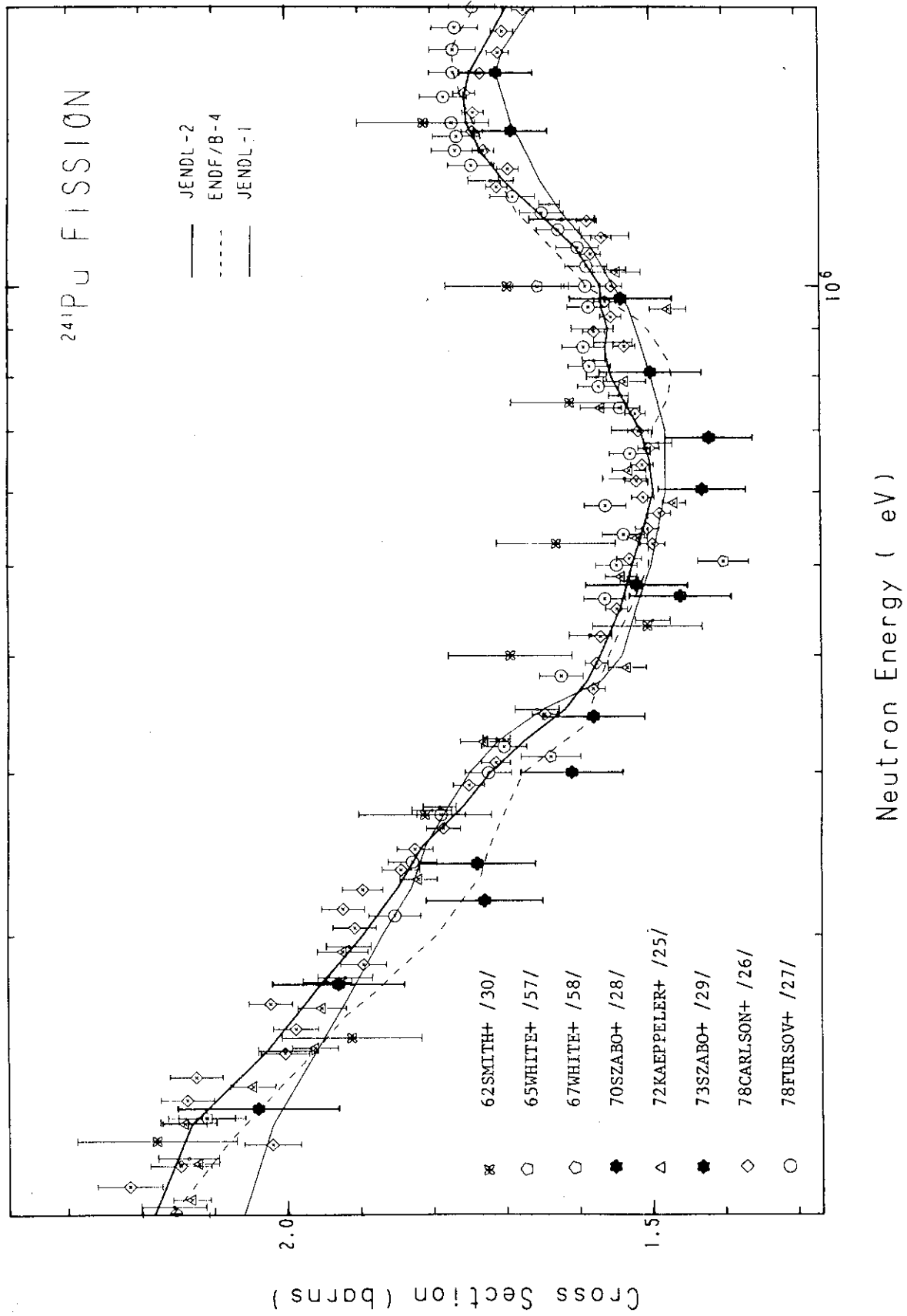


Fig. 18 Fission cross section of ^{241}Pu in the energy range from 100 keV to 2 MeV.

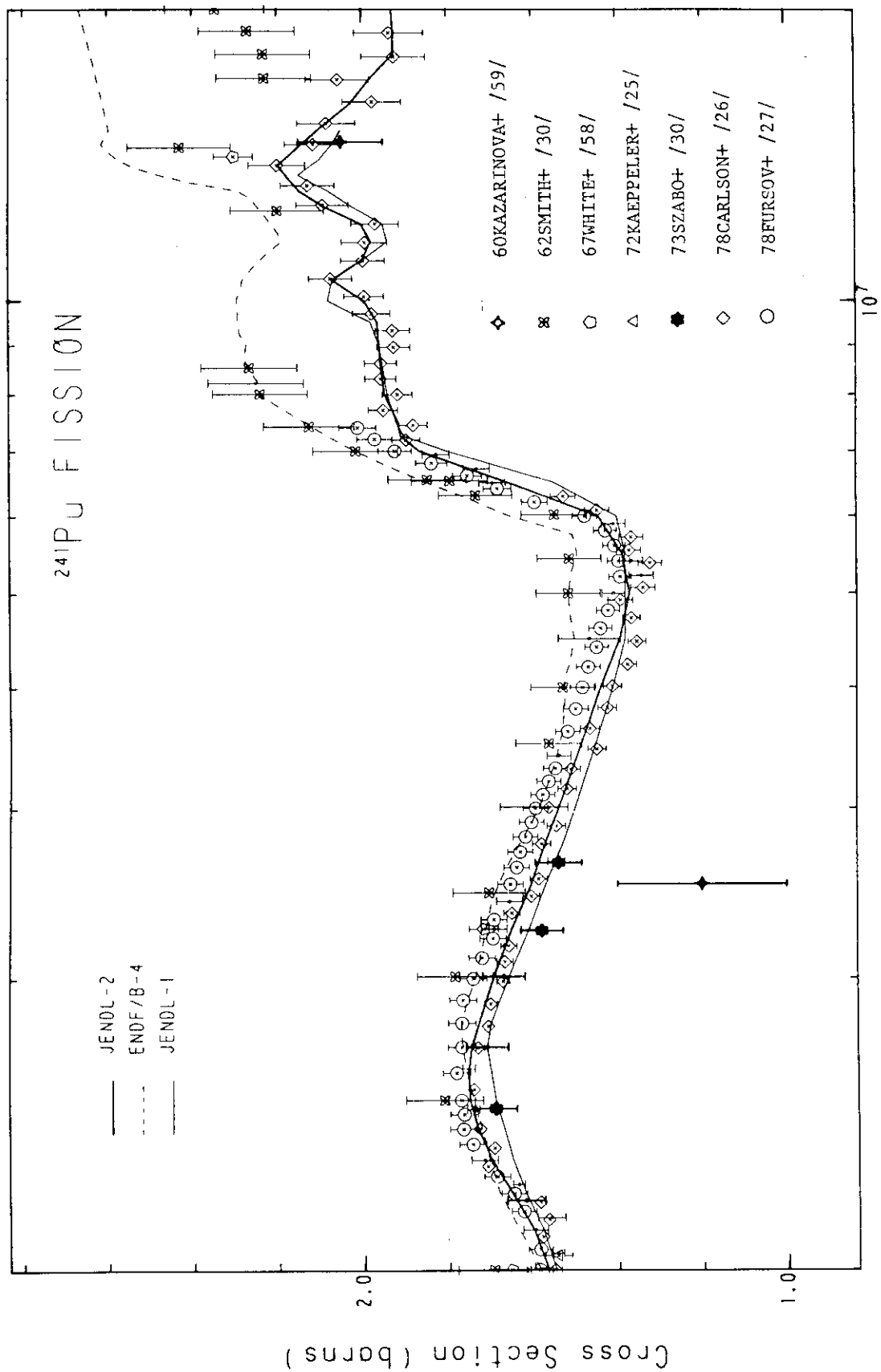


Fig. 19 Fission cross section of ^{241}Pu in the energy range from 1 MeV to 20 MeV.

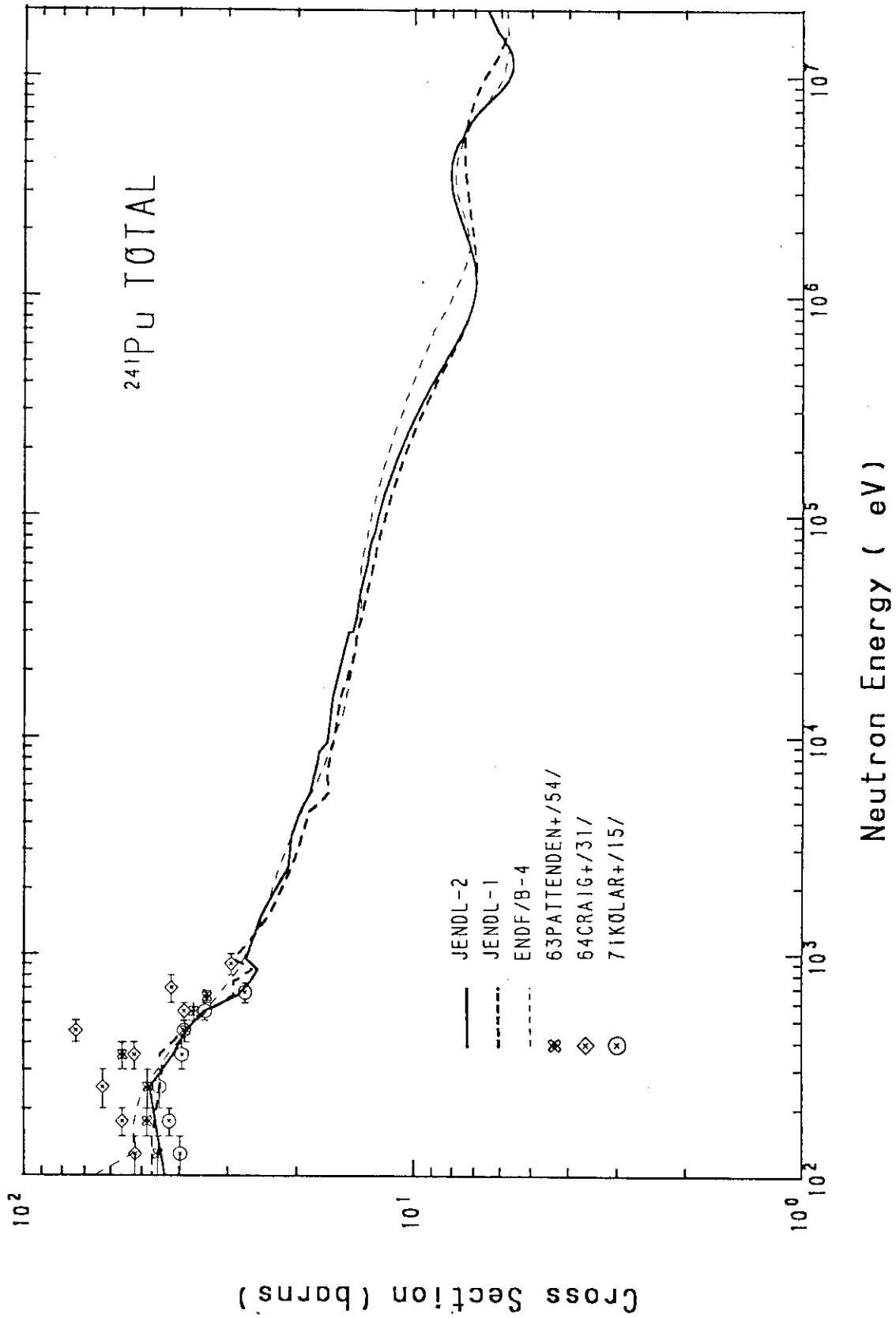


Fig. 20 Total cross section of ^{241}Pu .

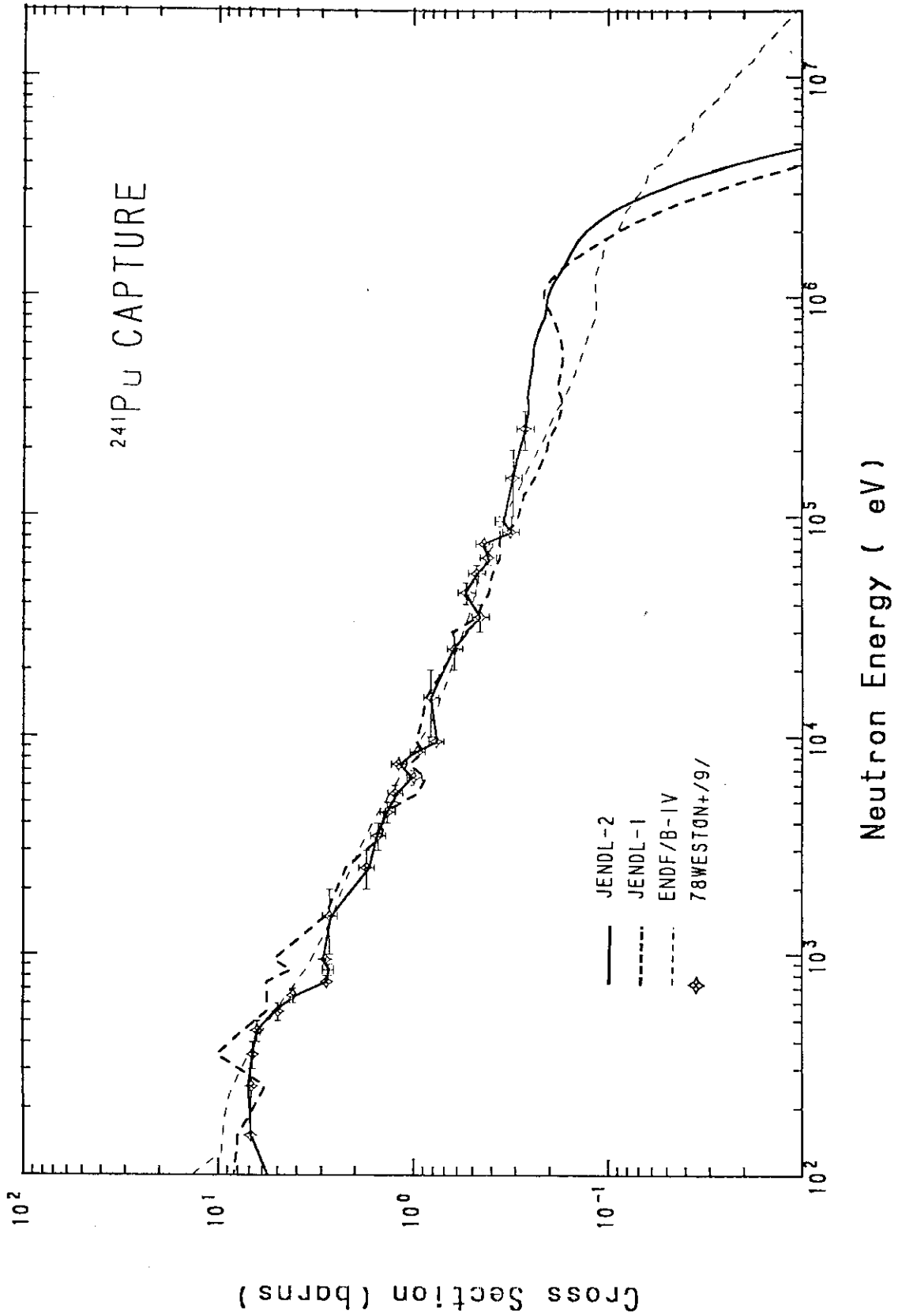


Fig. 21 Capture cross section of ^{241}Pu .

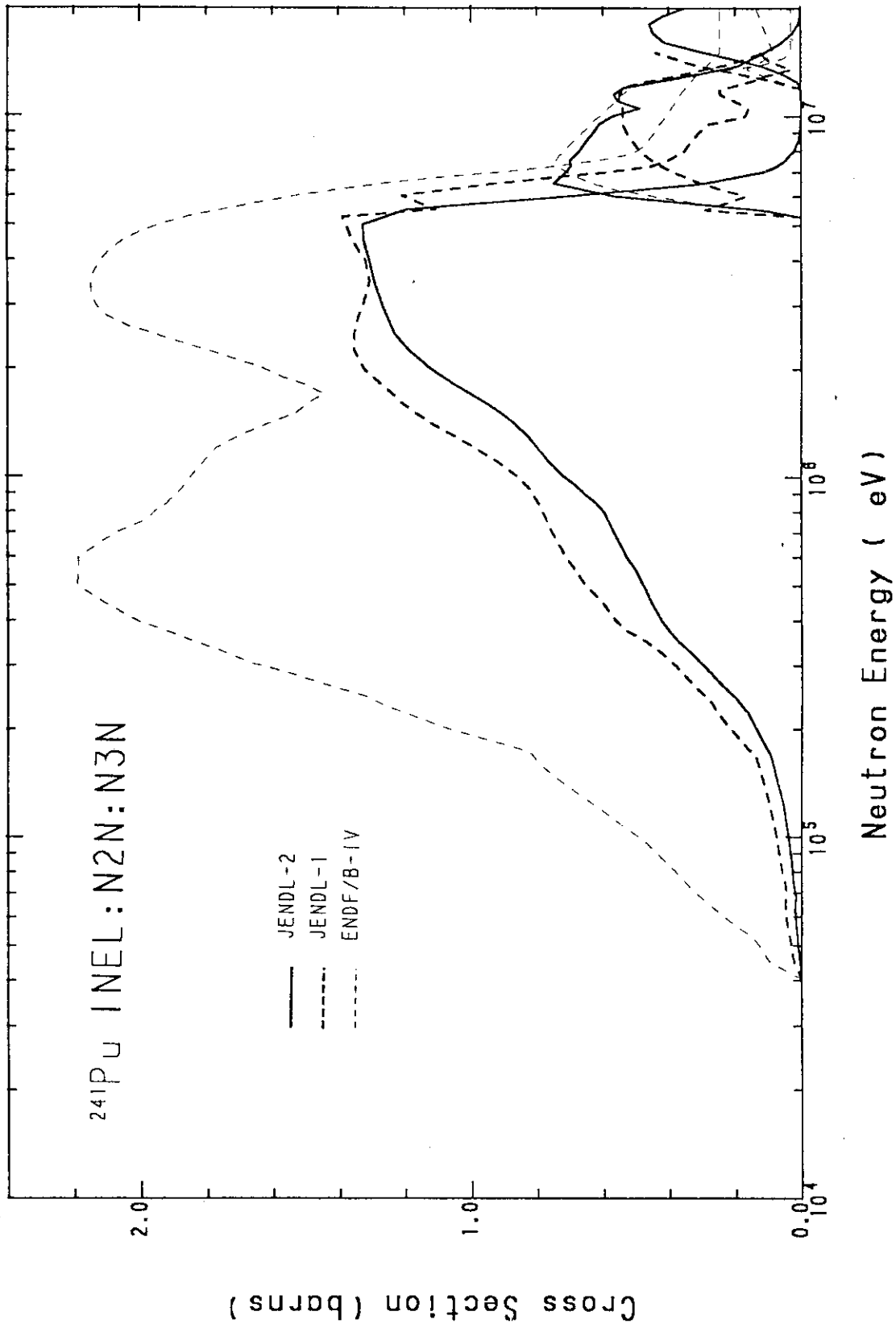


Fig. 22 Inelastic scattering, (n,2n) and (n,3n) reaction cross sections of ^{241}Pu .

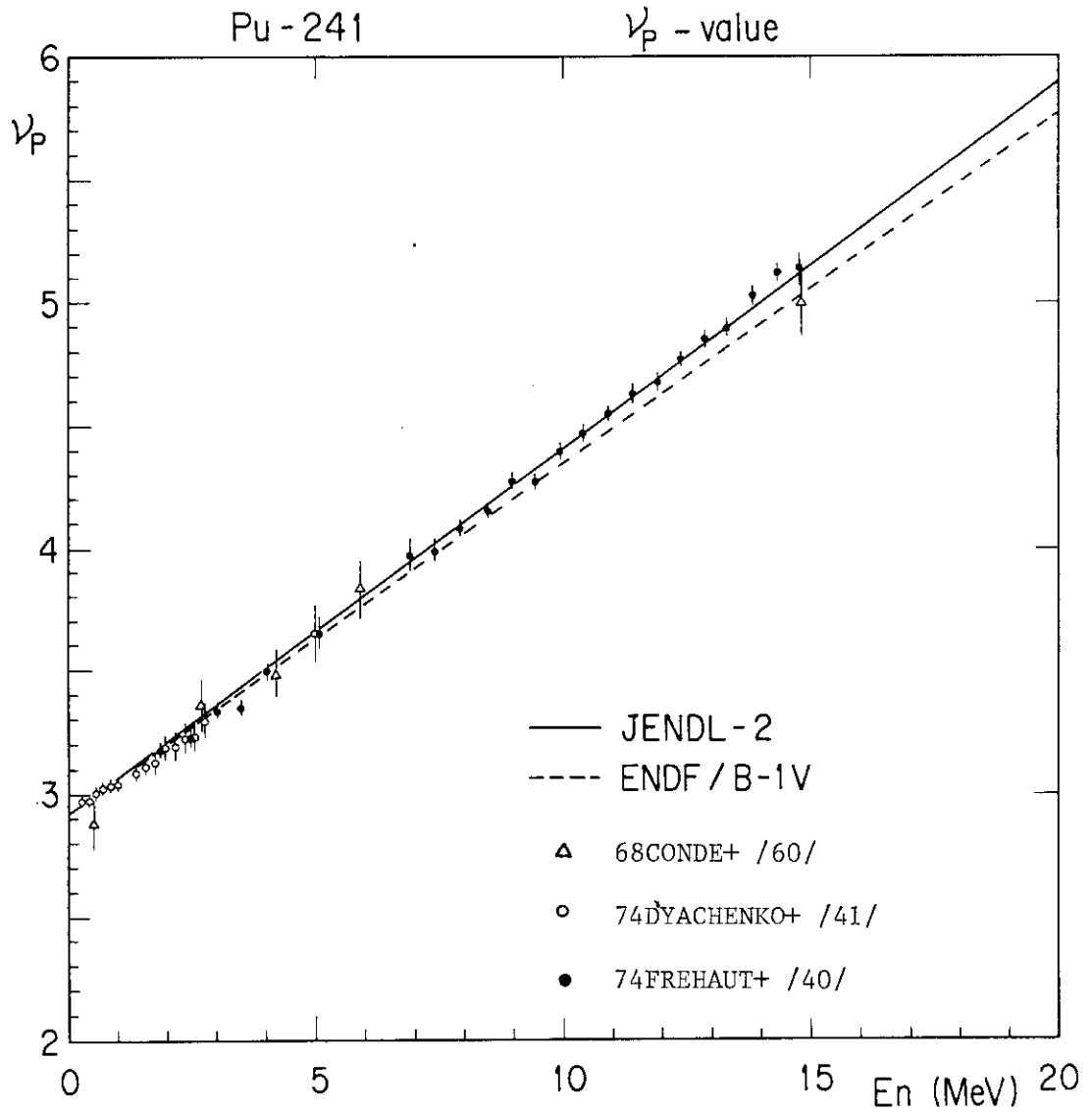


Fig. 23 ν_p value of ^{241}Pu .

Appendix

List of Evaluated Data

PU-241				0	0
9.42410+ 4 2.38986+ 2	1	1	0	502945	1451 1
0.0 + 0 0.0 + 0	0	1	127	02945	1451 2
94-PU-241 JAERI	EVAL-OCT79	Y.KIKUCHI,N.SEKINE		2945	1451 3
JAERI M84-111	DIST-DEC79	REV1-NOV83		2945	1451 4
HISTORY				2945	1451 5
79-10 NEW EVALUATION WAS MADE BY Y.KIKUCHI (JAERI) AND N.SEKINE (HEC). DATA OF JENDL-1 /1/ WERE SUPERSEDED.				2945	1451 6
79-12 FILES 2, 3 AND 4 WERE RELEASED AS JENDL-2B /2/.				2945	1451 7
83-03 FILES 1 AND 5 WERE ADDED.				2945	1451 8
83-11 COMMENT WAS ADDED.				2945	1451 9
				2945	1451 10
				2945	1451 11
MF=1 GENERAL INFORMATION				2945	1451 12
MT=451 COMMENT AND DICTIONARY				2945	1451 13
MT=452 NUMBER OF NEUTRONS PER FISSION				2945	1451 14
SUM OF NU-P (MT=456) AND NU-D (MT=455).				2945	1451 15
MT=454 FISSION YIELD DATA				2945	1451 16
NO EVALUATION DONE. DATA OF ENDF/B-IV WERE ADOPTED.				2945	1451 17
MT=455 DELAYED NEUTRON DATA				2945	1451 18
DATA OF BENEDETTI + /3/				2945	1451 19
MT=456 NUMBER OF PROMPT NEUTRONS PER FISSION				2945	1451 20
DATA OF BOLDEMAN AND FREHAUT /4/ FOR THERMAL FISSION				2945	1451 21
NU-P(CF-252 SPONTANEOUS FISSION) = 3.753 ASSUMED.				2945	1451 22
ENERGY DEPENDENCE : FREHAUT + /5/				2945	1451 23
				2945	1451 24
MF=2,MT=151 RESONANCE PARAMETERS				2945	1451 25
RESOLVED RESONANCES : 1 - 100 EV				2945	1451 26
JENDL-1 DATA /1/ MODIFIED FOR BETTER FIT TO EXPERIMENTS.				2945	1451 27
A NEGATIVE RESONANCE ADDEDD.				2945	1451 28
BACKGROUND CROSS SECTION APPLIED FOR FISSION AND CAPTURE.				2945	1451 29
				2945	1451 30
UNRESOLVED RESONANCES : 100 EV - 30 KEV				2945	1451 31
OBTAINED BY FITTING EVALUATED SIG-F AND SIG-C.				2945	1451 32
ENERGY DEPENDENT PARAMETERS : SO, S1 AND GAM-F.				2945	1451 33
FIXED PARAMETERS : R=9.8 FM , GAM-G = 0.040 EV,				2945	1451 34
D-OBS = 0.85 EV				2945	1451 35
				2945	1451 36
2200-M/SEC CROSS SECTIONS AND CALCULATED RESONANCE INTEGRALS.				2945	1451 37
	2200 M/SEC	RES. INTEG.		2945	1451 38
ELASTIC	10.23 B	-		2945	1451 39
FISSION	1015. B	590 B		2945	1451 40
CAPTURE	363.0 B	187 B		2945	1451 41
TOTAL	1388.2 B	-		2945	1451 42
				2945	1451 43
MF=3 NEUTRON CROSS SECTIONS				2945	1451 44
POINT-WISE DATA BELOW 1 EV DOWN TO 1.0E-5 EV				2945	1451 45
SIG-T : ON THE BASIS OF THE DATA OF SMITH + /6/				2945	1451 46
SIG-F : ON THE BASIS OF THE DATA OF WAGEMANS + /7/				2945	1451 47
SIG-E : CALCULATED FROM RESONANCE PARAMETERS				2945	1451 48
SIG-C : SIG-T - (SIG-F + SIG-E)				2945	1451 49
2200 M/S VALUES :				2945	1451 50
SIG-T = 1388.2 B , SIG-F = 1015 B , SIG-C = 363 B.				2945	1451 51
				2945	1451 52
BACKGROUND CROSS SECTIONS FOR RESOLVED RESONANCES (1 - 100 EV).				2945	1451 53
NO BACKGROUND CROSS SECTIONS FOR UNRESOLVED RESONANCES.				2945	1451 54
				2945	1451 55
ABOVE 30 KEV, SMOOTH CROSS SECTIONS GIVEN AS FOLLOWS.				2945	1451 56
				2945	1451 57
MT=1,2,4,51-61,91,251 : SIG-T,SIG-E,SIG-IN,MU-BAR				2945	1451 58
CALCULATED WITH OPTICAL AND STATISTICAL MODELS.				2945	1451 59
OPTICAL POTENTIAL PARAMETERS OBTAINED FROM SYSTEMATICS /8/				2945	1451 60
V = 40.25 - 0.05*EN , WS = 6.5 , VSO = 7.0 (MEV)				2945	1451 61
R = RSO = 1.32 , RS = 1.38 (FM)				2945	1451 62
A = B = ASO = 0.47 (FM)				2945	1451 63
STATISTICAL MODEL CALCULATION WITH CASTHY CODE /9/.				2945	1451 64
COMPETING PROCESSES : FISSION,(N,2N),(N,3N),(N,4N).				2945	1451 65
LEVEL FLUCTUATION CONSIDERED.				2945	1451 66
THE LEVEL SCHEME TAKEN FROM REF. /10/.				2945	1451 67
	NO	ENERGY(KEV)	SPIN-PARITY	2945	1451 68
G.S.	0		5/2 +	2945	1451 69
1	41.8		7/2 +	2945	1451 70
2	94.0		9/2 +	2945	1451 71

3	161.5	1/2 +	2945	1451	72	
4	170.8	3/2 +	2945	1451	73	
5	223.1	5/2 +	2945	1451	74	
6	230.0	9/2 +	2945	1451	75	
7	242.7	7/2 +	2945	1451	76	
8	300	11/2 +	2945	1451	77	
9	335	9/2 +	2945	1451	78	
10	368	13/2 +	2945	1451	79	
11	445	11/2 -	2945	1451	80	
CONTINUUM LEVELS ASSUMED ABOVE 490 KEV.			2945	1451	81	
THE LEVEL DENSITY PARAMETERS : GILBERT AND CAMERON /11/.			2945	1451	82	
			2945	1451	83	
MT=16,17,37	(N,2N),(N,3N),(N,4N)		2945	1451	84	
CALCULATED WITH EVAPORATION MODEL.			2945	1451	85	
			2945	1451	86	
MT=18	FISSION		2945	1451	87	
SIMULTANEOUS EVALUATION WITH U-235,U-238,PU-240,PU-241 /8/2945			1451	88		
MAINLY BASED ON THE DATA OF CARLSON +/12/, KAEPELER+/13/,			2945	1451	89	
FURSOV+/14/ AND SZABO+/15,16/.			2945	1451	90	
			2945	1451	91	
MT=102	CAPTURE		2945	1451	92	
BASED ON THE DATA OF ALPHA BY WESTON+ /17/ UP TO 250 KEV.			2945	1451	93	
CALCULATED WITH THE STATISTICAL MODEL ABOVE 250 KEV.			2945	1451	94	
THE GAMM-RAY STRENGTH FUNCTION WAS DETERMINED SO THAT			2945	1451	95	
SIG-C =269 MB AT 250 KEV.			2945	1451	96	
			2945	1451	97	
MF=4	ANGULAR DISTRIBUTIONS OF SECONDARY NEUTRONS		2945	1451	98	
MT=2	: CALCULATED WITH THE OPTICAL MODEL.		2945	1451	99	
MT=51-61	: ISOTROPIC IN THE CENTER-OF-MASS SYSTEM.		2945	1451	100	
MT=16,17,18,37,91	: ISOTROPIC IN THE LABORATORY SYSTEM.		2945	1451	101	
			2945	1451	102	
MF=5	ENERGY DISTRIBUTIONS OF SECONDARY NEUTRONS		2945	1451	103	
MT=16,17,18,37,91	: EVAPORATION SPECTRUM.		2945	1451	104	
MT=18	: MAXWELLIAN FISSION SPECTRUM.		2945	1451	105	
TEMPERATURE ESTIMATED FROM Z**2/A VALUES.			2945	1451	106	
MT=455	: BETA-I FROM THE DATA OF BENEDETTI+ /3/.		2945	1451	107	
ENDF/B-IV DATA FOR DELAYED NEUTRON SPECTRUM.			2945	1451	108	
			2945	1451	109	
REFERENCES			2945	1451	110	
1)	KIKUCHI Y. : J.NUCL.SCI.TECHNOL.,14,467 (1977).		2945	1451	111	
2)	KIKUCHI Y. ET.AL. : J.NUCL.SCI.TECHNOL.,17,567 (1980).		2945	1451	112	
3)	BENEDETTI G. ET.AL. : NUCL.SCI.ENG.,80,379 (1982).		2945	1451	113	
4)	BOLDEMAN J.W. AND FREHAUT J. : NUCL.SCI.ENG.,76,49 (1980).		2945	1451	114	
5)	FREHAUT J. ET.AL. : CEA-R-4626 (1974).		2945	1451	115	
6)	SMITH J.R. AND YOUNG T.E. : IN-1317,P.11 (1970).		2945	1451	116	
7)	WAGEMANS C. AND DERUYTTER A.J. : NUCL.SCI.ENG.,60,44 (1976).		2945	1451	117	
8)	MATSUNOBU H. ET.AL. : 1979 KNOXVILLE CONF.,P.715,NBS SPECIAL PUBLICATION 594 (1980).		2945	1451	118	
9)	IGARASI S. : J.NUCL.SCI.TECHNOL.,12,67 (1975).		2945	1451	119	
10)	LEDERER C.M. AND SHIRLEY V.S. : TABLE OF ISOTOPES , 7TH ED.		2945	1451	121	
11)	GILBERT A. AND CAMERON A.G.W. : CAN.J.PHYS.,43,1446 (1965).		2945	1451	122	
12)	CARLSON G.W. AND BEHRENS J.W. : NUCL.SCI.ENG.,68,128 (1978).		2945	1451	123	
13)	KAEPELER F. AND PFLETSCHINGER E. : NUC.SCI.ENG.,51,124 (1973)		2945	1451	124	
14)	FURSOV B.I. ET.AL. : SOV.AT.ENERGY,44,262 (1978).		2945	1451	125	
15)	SZABO I. ET.AL. : CONF-701002,P.257 (1971).		2945	1451	126	
16)	SZABO I. ET.AL. : 1973 KIEV CONF,VOL.3,P.27 (1973).		2945	1451	127	
17)	WESTON L.W. AND TODD J.H. : NUCL.SCI.ENG.,65,454 (1978).		2945	1451	128	
			2945	1451	129	
	1	451	179	2945	1451	130
	1	452	3	2945	1451	131
	1	454	575	2945	1451	132
	1	455	7	2945	1451	133
	1	456	5	2945	1451	134
	2	151	245	2945	1451	135
	3	1	154	2945	1451	136
	3	2	62	2945	1451	137
	3	4	33	2945	1451	138
	3	16	12	2945	1451	139
	3	17	7	2945	1451	140
	3	18	108	2945	1451	141
	3	37	5	2945	1451	142
	3	51	33	2945	1451	143

			3	52	30	2945	1451	144							
			3	53	28	2945	1451	145							
			3	54	28	2945	1451	146							
			3	55	27	2945	1451	147							
			3	56	26	2945	1451	148							
			3	57	26	2945	1451	149							
			3	58	24	2945	1451	150							
			3	59	24	2945	1451	151							
			3	60	23	2945	1451	152							
			3	61	22	2945	1451	153							
			3	91	21	2945	1451	154							
			3	102	63	2945	1451	155							
			3	251	42	2945	1451	156							
			4	2	466	2945	1451	157							
			4	16	10	2945	1451	158							
			4	17	10	2945	1451	159							
			4	18	10	2945	1451	160							
			4	37	10	2945	1451	161							
			4	51	10	2945	1451	162							
			4	52	10	2945	1451	163							
			4	53	10	2945	1451	164							
			4	54	10	2945	1451	165							
			4	55	10	2945	1451	166							
			4	56	10	2945	1451	167							
			4	57	10	2945	1451	168							
			4	58	10	2945	1451	169							
			4	59	10	2945	1451	170							
			4	60	10	2945	1451	171							
			4	61	10	2945	1451	172							
			4	91	10	2945	1451	173							
			5	16	17	2945	1451	174							
			5	17	22	2945	1451	175							
			5	18	8	2945	1451	176							
			5	37	25	2945	1451	177							
			5	91	10	2945	1451	178							
			5	455	107	2945	1451	179							
						2945	1	0	180						
9.42410+	4	2.38986+	2	0	1	0	02945	1452	181						
0.0	+	0	0.0	+	0	2	02945	1452	182						
2.93230+	0	1.43000-	7				2945	1452	183						
							2945	1	0	184					
9.42410+	4	2.38986+	2	1	0	0	02945	1454	185						
2.53000-	2	0.0	+	0	0	3438	11462945	1454	186						
2.40660+	4	0.0	+	0	8.75403-13	2.40670+	4	0.0	+	0	1.16053-132945	1454	187		
2.40680+	4	0.0	+	0	1.16053-14	2.40700+	4	0.0	+	0	0.0	+	02945	1454	188
2.50660+	4	0.0	+	0	7.74356-11	2.50670+	4	0.0	+	0	3.24149-112945	1454	189		
2.50680+	4	0.0	+	0	1.04048-11	2.50690+	4	0.0	+	0	1.89087-122945	1454	190		
2.50700+	4	0.0	+	0	3.63167-13	2.50710+	4	0.0	+	0	1.91088-142945	1454	191		
2.60660+	4	0.0	+	0	8.97413-10	2.60670+	4	0.0	+	0	1.06049- 92945	1454	192		
2.60680+	4	0.0	+	0	1.02047- 9	2.60690+	4	0.0	+	0	5.69262-102945	1454	193		
2.60700+	4	0.0	+	0	3.48160-10	2.60710+	4	0.0	+	0	5.93272-112945	1454	194		
2.60720+	4	0.0	+	0	1.67077-11	2.60730+	4	0.0	+	0	1.79082-122945	1454	195		
2.60740+	4	0.0	+	0	8.15375-14	2.60760+	4	0.0	+	0	0.0	+	02945	1454	196
2.70660+	4	0.0	+	0	4.11189-10	2.70670+	4	0.0	+	0	1.27059- 92945	1454	197		
2.70680+	4	0.0	+	0	3.23149- 9	2.70690+	4	0.0	+	0	4.98229- 92945	1454	198		
2.70700+	4	0.0	+	0	8.82406- 9	2.70710+	4	0.0	+	0	4.54209- 92945	1454	199		
2.70720+	4	0.0	+	0	4.01185- 9	2.70730+	4	0.0	+	0	1.38064- 92945	1454	200		
2.70740+	4	0.0	+	0	2.06095-10	2.70750+	4	0.0	+	0	3.44158-112945	1454	201		
2.70760+	4	0.0	+	0	4.27197-12	2.80660+	4	0.0	+	0	2.99138-112945	1454	202		
2.80670+	4	0.0	+	0	2.60120-10	2.80680+	4	0.0	+	0	1.77082- 92945	1454	203		
2.80690+	4	0.0	+	0	7.18331- 9	2.80700+	4	0.0	+	0	3.32153- 82945	1454	204		
2.80710+	4	0.0	+	0	4.62213- 8	2.80720+	4	0.0	+	0	1.15053- 72945	1454	205		
2.80730+	4	0.0	+	0	1.17054- 7	2.80740+	4	0.0	+	0	5.35246- 82945	1454	206		
2.80750+	4	0.0	+	0	2.84131- 8	2.80760+	4	0.0	+	0	1.14053- 82945	1454	207		
2.80770+	4	0.0	+	0	1.71079- 9	2.80780+	4	0.0	+	0	2.54117-102945	1454	208		
2.80800+	4	0.0	+	0	3.67169-13	2.80820+	4	0.0	+	0	0.0	+	02945	1454	209
2.90660+	4	0.0	+	0	6.05279-14	2.90670+	4	0.0	+	0	1.65076-122945	1454	210		
2.90680+	4	0.0	+	0	1.71079-11	2.90680+	4	1.00000+	0	1.59073-112945	1454	211			
2.90690+	4	0.0	+	0	3.98183-10	2.90700+	4	0.0	+	0	2.55117- 92945	1454	212		
2.90700+	4	1.00000+	0	2.55117- 9	2.90710+	4	0.0	+	0	1.87086- 82945	1454	213			
2.90720+	4	0.0	+	0	1.22056- 7	2.90730+	4	0.0	+	0	3.26150- 72945	1454	214		
2.90740+	4	0.0	+	0	4.10189- 7	2.90750+	4	0.0	+	0	6.25288- 72945	1454	215		

2.90760+	4 0.0	+ 0 7.57349-	7 2.90770+	4 0.0	+ 0 3.65168-	72945	1454	216
2.90780+	4 0.0	+ 0 1.84085-	7 2.90790+	4 0.0	+ 0 2.95136-	82945	1454	217
2.90800+	4 0.0	+ 0 3.26150-	9 2.90810+	4 0.0	+ 0 1.91088-	102945	1454	218
2.90820+	4 0.0	+ 0 7.21332-	12 3.00660+	4 0.0	+ 0 0.0	+ 02945	1454	219
3.00670+	4 0.0	+ 0 0.0	+ 0 3.00680+	4 0.0	+ 0 7.43342-	142945	1454	220
3.00690+	4 0.0	+ 0 1.38064-	12 3.00690+	4 1.00000+	0 1.30060-	122945	1454	221
3.00700+	4 0.0	+ 0 1.09050-	10 3.00710+	4 0.0	+ 0 5.95274-	102945	1454	222
3.00710+	4 1.00000+	0 5.91272-	10 3.00720+	4 0.0	+ 0 2.18100-	82945	1454	223
3.00730+	4 0.0	+ 0 1.59073-	7 3.00740+	4 0.0	+ 0 5.20240-	72945	1454	224
3.00750+	4 0.0	+ 0 2.09096-	6 3.00760+	4 0.0	+ 0 6.77312-	62945	1454	225
3.00770+	4 0.0	+ 0 9.39433-	6 3.00780+	4 0.0	+ 0 1.47368-	52945	1454	226
3.00790+	4 0.0	+ 0 8.14375-	6 3.00800+	4 0.0	+ 0 2.86132-	62945	1454	227
3.00810+	4 0.0	+ 0 5.77266-	7 3.00820+	4 0.0	+ 0 7.41341-	82945	1454	228
3.00830+	4 0.0	+ 0 5.10235-	9 3.00840+	4 0.0	+ 0 1.94089-	102945	1454	229
3.00860+	4 0.0	+ 0 3.09142-	14 3.10660+	4 0.0	+ 0 0.0	+ 02945	1454	230
3.10670+	4 0.0	+ 0 0.0	+ 0 3.10680+	4 0.0	+ 0 0.0	+ 02945	1454	231
3.10690+	4 0.0	+ 0 0.0	+ 0 3.10700+	4 0.0	+ 0 5.89271-	142945	1454	232
3.10710+	4 0.0	+ 0 2.07095-	12 3.10720+	4 0.0	+ 0 1.20055-	102945	1454	233
3.10730+	4 0.0	+ 0 2.65122-	9 3.10740+	4 0.0	+ 0 2.54117-	82945	1454	234
3.10750+	4 0.0	+ 0 2.80129-	7 3.10760+	4 0.0	+ 0 2.41111-	62945	1454	235
3.10770+	4 0.0	+ 0 8.98414-	6 3.10780+	4 0.0	+ 0 3.94282-	52945	1454	236
3.10790+	4 0.0	+ 0 6.57703-	5 3.10800+	4 0.0	+ 0 6.66007-	52945	1454	237
3.10810+	4 0.0	+ 0 4.29298-	5 3.10820+	4 0.0	+ 0 1.77682-	52945	1454	238
3.10830+	4 0.0	+ 0 4.18193-	6 3.10840+	4 0.0	+ 0 5.53255-	72945	1454	239
3.10860+	4 0.0	+ 0 1.15053-	9 3.20660+	4 0.0	+ 0 0.0	+ 02945	1454	240
3.20670+	4 0.0	+ 0 0.0	+ 0 3.20680+	4 0.0	+ 0 0.0	+ 02945	1454	241
3.20690+	4 0.0	+ 0 0.0	+ 0 3.20700+	4 0.0	+ 0 0.0	+ 02945	1454	242
3.20710+	4 0.0	+ 0 0.0	+ 0 3.20720+	4 0.0	+ 0 6.90318-	142945	1454	243
3.20730+	4 0.0	+ 0 2.48114-	12 3.20730+	4 1.00000+	0 2.48114-	122945	1454	244
3.20740+	4 0.0	+ 0 1.52070-	10 3.20750+	4 0.0	+ 0 2.60120-	92945	1454	245
3.20750+	4 1.00000+	0 2.60120-	9 3.20760+	4 0.0	+ 0 1.34062-	72945	1454	246
3.20770+	4 0.0	+ 0 7.29336-	7 3.20770+	4 1.00000+	0 7.29336-	72945	1454	247
3.20780+	4 0.0	+ 0 1.83685-	5 3.20790+	4 0.0	+ 0 8.81506-	52945	1454	248
3.20800+	4 0.0	+ 0 2.31637-	4 3.20810+	4 0.0	+ 0 4.25676-	42945	1454	249
3.20820+	4 0.0	+ 0 5.09224-	4 3.20830+	4 0.0	+ 0 3.74252-	42945	1454	250
3.20840+	4 0.0	+ 0 1.61734-	4 3.20850+	4 0.0	+ 0 2.75627-	52945	1454	251
3.20860+	4 0.0	+ 0 4.03186-	6 3.20870+	4 0.0	+ 0 2.90134-	72945	1454	252
3.20880+	4 0.0	+ 0 1.10051-	8 3.30690+	4 0.0	+ 0 0.0	+ 02945	1454	253
3.30710+	4 0.0	+ 0 0.0	+ 0 3.30720+	4 0.0	+ 0 0.0	+ 02945	1454	254
3.30730+	4 0.0	+ 0 0.0	+ 0 3.30740+	4 0.0	+ 0 1.05048-	142945	1454	255
3.30740+	4 1.00000+	0 1.07049-	14 3.30750+	4 0.0	+ 0 2.42111-	122945	1454	256
3.30760+	4 0.0	+ 0 2.02093-	10 3.30770+	4 0.0	+ 0 7.11328-	92945	1454	257
3.30780+	4 0.0	+ 0 2.85131-	7 3.30790+	4 0.0	+ 0 4.51208-	62945	1454	258
3.30800+	4 0.0	+ 0 3.30252-	5 3.30810+	4 0.0	+ 0 1.67317-	42945	1454	259
3.30820+	4 0.0	+ 0 2.67453-	4 3.30820+	4 1.00000+	0 2.69104-	42945	1454	260
3.30830+	4 0.0	+ 0 1.09967-	3 3.30840+	4 0.0	+ 0 1.37765-	32945	1454	261
3.30850+	4 0.0	+ 0 7.16890-	4 3.30860+	4 0.0	+ 0 3.46590-	42945	1454	262
3.30870+	4 0.0	+ 0 8.55294-	5 3.30880+	4 0.0	+ 0 1.18655-	52945	1454	263
3.30890+	4 0.0	+ 0 9.91457-	7 3.40720+	4 0.0	+ 0 0.0	+ 02945	1454	264
3.40730+	4 0.0	+ 0 0.0	+ 0 3.40730+	4 1.00000+	0 0.0	+ 02945	1454	265
3.40740+	4 0.0	+ 0 0.0	+ 0 3.40750+	4 0.0	+ 0 0.0	+ 02945	1454	266
3.40760+	4 0.0	+ 0 3.01139-	14 3.40770+	4 0.0	+ 0 1.81083-	122945	1454	267
3.40770+	4 1.00000+	0 1.81083-	12 3.40780+	4 0.0	+ 0 5.50253-	102945	1454	268
3.40790+	4 0.0	+ 0 1.43066-	8 3.40790+	4 1.00000+	0 1.43066-	82945	1454	269
3.40800+	4 0.0	+ 0 6.49299-	7 3.40810+	4 0.0	+ 0 5.20240-	62945	1454	270
3.40810+	4 1.00000+	0 5.18239-	6 3.40820+	4 0.0	+ 0 9.65445-	52945	1454	271
3.40830+	4 0.0	+ 0 2.81340-	4 3.40830+	4 1.00000+	0 2.80369-	42945	1454	272
3.40840+	4 0.0	+ 0 1.87403-	3 3.40850+	4 0.0	+ 0 1.38505-	32945	1454	273
3.40850+	4 1.00000+	0 1.38870-	3 3.40860+	4 0.0	+ 0 3.91414-	32945	1454	274
3.40870+	4 0.0	+ 0 2.96699-	3 3.40880+	4 0.0	+ 0 1.37297-	32945	1454	275
3.40890+	4 0.0	+ 0 3.77674-	4 3.40900+	4 0.0	+ 0 7.04224-	52945	1454	276
3.40910+	4 0.0	+ 0 7.78358-	6 3.40920+	4 0.0	+ 0 6.44297-	72945	1454	277
3.40940+	4 0.0	+ 0 6.65306-	10 3.40950+	4 0.0	+ 0 9.83174-	122945	1454	278
3.40960+	4 0.0	+ 0 9.34430-	14 3.50750+	4 0.0	+ 0 0.0	+ 02945	1454	279
3.50770+	4 0.0	+ 0 0.0	+ 0 3.50770+	4 1.00000+	0 0.0	+ 02945	1454	280
3.50780+	4 0.0	+ 0 2.21102-	14 3.50790+	4 0.0	+ 0 2.15099-	122945	1454	281
3.50790+	4 1.00000+	0 2.02093-	12 3.50800+	4 0.0	+ 0 1.53070-	102945	1454	282
3.50800+	4 1.00000+	0 1.60074-	10 3.50810+	4 0.0	+ 0 1.76081-	82945	1454	283
3.50820+	4 0.0	+ 0 2.65122-	7 3.50820+	4 1.00000+	0 2.65122-	72945	1454	284
3.50830+	4 0.0	+ 0 9.91457-	6 3.50840+	4 0.0	+ 0 5.23641-	52945	1454	285
3.50840+	4 1.00000+	0 5.24441-	5 3.50850+	4 0.0	+ 0 4.32969-	42945	1454	286
3.50860+	4 0.0	+ 0 8.75273-	4 3.50860+	4 1.00000+	0 8.75273-	42945	1454	287

3.50870+ 4 0.0	+ 0	3.70871- 3	3.50880+ 4 0.0	+ 0	5.07431- 32945	1454	288
3.50890+ 4 0.0	+ 0	4.09271- 3	3.50900+ 4 0.0	+ 0	2.29350- 32945	1454	289
3.50910+ 4 0.0	+ 0	7.96557- 4	3.50920+ 4 0.0	+ 0	2.14199- 42945	1454	290
3.50930+ 4 0.0	+ 0	3.28851- 5	3.50940+ 4 0.0	+ 0	2.58119- 62945	1454	291
3.50950+ 4 0.0	+ 0	1.42159- 7	3.50960+ 4 0.0	+ 0	4.30198- 92945	1454	292
3.60770+ 4 0.0	+ 0	0.0 + 0	3.60780+ 4 0.0	+ 0	0.0 + 02945	1454	293
3.60790+ 4 0.0	+ 0	0.0 + 0	3.60790+ 4 1.00000+	+ 0	0.0 + 02945	1454	294
3.60800+ 4 0.0	+ 0	1.52070-14	3.60810+ 4 0.0	+ 0	1.43066-122945	1454	295
3.60810+ 4 1.00000+	+ 0	1.48068-12	3.60820+ 4 0.0	+ 0	3.05141-102945	1454	296
3.60830+ 4 0.0	+ 0	9.77450- 9	3.60830+ 4 1.00000+	+ 0	9.77450- 92945	1454	297
3.60840+ 4 0.0	+ 0	2.05595- 5	3.60850+ 4 0.0	+ 0	5.79267- 62945	1454	298
3.60850+ 4 1.00000+	+ 0	4.79221- 6	3.60860+ 4 0.0	+ 0	1.23907- 42945	1454	299
3.60870+ 4 0.0	+ 0	8.04040- 4	3.60880+ 4 0.0	+ 0	3.21504- 32945	1454	300
3.60890+ 4 0.0	+ 0	7.17768- 3	3.60900+ 4 0.0	+ 0	1.08573- 22945	1454	301
3.60910+ 4 0.0	+ 0	1.05182- 2	3.60920+ 4 0.0	+ 0	8.29319- 32945	1454	302
3.60930+ 4 0.0	+ 0	4.03049- 3	3.60940+ 4 0.0	+ 0	1.01233- 32945	1454	303
3.60950+ 4 0.0	+ 0	1.66605- 4	3.60960+ 4 0.0	+ 0	1.87586- 52945	1454	304
3.60970+ 4 0.0	+ 0	1.26058- 6	3.60980+ 4 0.0	+ 0	5.38248- 82945	1454	305
3.60990+ 4 0.0	+ 0	1.60711- 9	3.61000+ 4 0.0	+ 0	3.11143-112945	1454	306
3.70790+ 4 0.0	+ 0	0.0 + 0	3.70810+ 4 0.0	+ 0	0.0 + 02945	1454	307
3.70810+ 4 1.00000+	+ 0	0.0 + 0	3.70830+ 4 0.0	+ 0	8.37386-132945	1454	308
3.70840+ 4 0.0	+ 0	5.93272-11	3.70840+ 4 1.00000+	+ 0	6.06279-112945	1454	309
3.70850+ 4 0.0	+ 0	5.30244- 9	3.70860+ 4 0.0	+ 0	1.22056- 72945	1454	310
3.70860+ 4 1.00000+	+ 0	1.22056- 7	3.70870+ 4 0.0	+ 0	5.37247- 62945	1454	311
3.70880+ 4 0.0	+ 0	7.28836- 5	3.70890+ 4 0.0	+ 0	4.92387- 42945	1454	312
3.70900+ 4 0.0	+ 0	1.04258- 3	3.70900+ 4 1.00000+	+ 0	1.04208- 32945	1454	313
3.70910+ 4 0.0	+ 0	6.47041- 3	3.70920+ 4 0.0	+ 0	1.15005- 22945	1454	314
3.70930+ 4 0.0	+ 0	1.56942- 2	3.70940+ 4 0.0	+ 0	1.12693- 22945	1454	315
3.70950+ 4 0.0	+ 0	5.74469- 3	3.70960+ 4 0.0	+ 0	1.97527- 32945	1454	316
3.70970+ 4 0.0	+ 0	4.32899- 4	3.70980+ 4 0.0	+ 0	5.96975- 52945	1454	317
3.70990+ 4 0.0	+ 0	6.17361- 6	3.71000+ 4 0.0	+ 0	3.43158- 72945	1454	318
3.71030+ 4 0.0	+ 0	5.70668-12	3.80830+ 4 0.0	+ 0	0.0 + 02945	1454	319
3.80840+ 4 0.0	+ 0	0.0 + 0	3.80850+ 4 0.0	+ 0	1.39064-132945	1454	320
3.80850+ 4 1.00000+	+ 0	1.36063-13	3.80860+ 4 0.0	+ 0	4.79221-112945	1454	321
3.80870+ 4 0.0	+ 0	1.91088- 9	3.80870+ 4 1.00000+	+ 0	1.74080- 92945	1454	322
3.80880+ 4 0.0	+ 0	1.90088- 7	3.80890+ 4 0.0	+ 0	4.31199- 62945	1454	323
3.80900+ 4 0.0	+ 0	5.74965- 5	3.80910+ 4 0.0	+ 0	5.19209- 42945	1454	324
3.80920+ 4 0.0	+ 0	2.75164- 3	3.80930+ 4 0.0	+ 0	9.63230- 32945	1454	325
3.80940+ 4 0.0	+ 0	2.02943- 2	3.80950+ 4 0.0	+ 0	2.85984- 22945	1454	326
3.80960+ 4 0.0	+ 0	2.67854- 2	3.80970+ 4 0.0	+ 0	1.72286- 22945	1454	327
3.80980+ 4 0.0	+ 0	7.11051- 3	3.80990+ 4 0.0	+ 0	2.00777- 32945	1454	328
3.81000+ 4 0.0	+ 0	3.70931- 4	3.81010+ 4 0.0	+ 0	4.52608- 52945	1454	329
3.81020+ 4 0.0	+ 0	4.13190- 6	3.81030+ 4 0.0	+ 0	1.87755- 72945	1454	330
3.81040+ 4 0.0	+ 0	1.01047- 8	3.81050+ 4 0.0	+ 0	1.40857-102945	1454	331
3.90850+ 4 0.0	+ 0	0.0 + 0	3.90850+ 4 1.00000+	+ 0	0.0 + 02945	1454	332
3.90870+ 4 0.0	+ 0	2.93135-14	3.90870+ 4 1.00000+	+ 0	3.02139-142945	1454	333
3.90880+ 4 0.0	+ 0	1.06049-11	3.90890+ 4 0.0	+ 0	4.52208-102945	1454	334
3.90890+ 4 1.00000+	+ 0	4.52208-10	3.90900+ 4 0.0	+ 0	2.04094- 82945	1454	335
3.90900+ 4 1.00000+	+ 0	2.10097- 8	3.90910+ 4 0.0	+ 0	6.23287- 72945	1454	336
3.90910+ 4 1.00000+	+ 0	1.94089- 6	3.90920+ 4 0.0	+ 0	2.07095- 52945	1454	337
3.90930+ 4 0.0	+ 0	2.52446- 4	3.90940+ 4 0.0	+ 0	1.42708- 32945	1454	338
3.90950+ 4 0.0	+ 0	5.77734- 3	3.90960+ 4 0.0	+ 0	1.42357- 22945	1454	339
3.90970+ 4 0.0	+ 0	2.44884- 2	3.90980+ 4 0.0	+ 0	2.69611- 22945	1454	340
3.90990+ 4 0.0	+ 0	2.12463- 2	3.91000+ 4 0.0	+ 0	1.04999- 22945	1454	341
3.91010+ 4 0.0	+ 0	3.67138- 3	3.91020+ 4 0.0	+ 0	9.90996- 42945	1454	342
3.91030+ 4 0.0	+ 0	1.67209- 4	3.91040+ 4 0.0	+ 0	2.12298- 52945	1454	343
3.91050+ 4 0.0	+ 0	1.09787- 6	3.91070+ 4 0.0	+ 0	3.36261-102945	1454	344
4.00870+ 4 0.0	+ 0	0.0 + 0	4.00880+ 4 0.0	+ 0	0.0 + 02945	1454	345
4.00890+ 4 0.0	+ 0	0.0 + 0	4.00890+ 4 1.00000+	+ 0	0.0 + 02945	1454	346
4.00900+ 4 0.0	+ 0	1.41065-12	4.00900+ 4 1.00000+	+ 0	1.42065-122945	1454	347
4.00910+ 4 0.0	+ 0	1.68077- 7	4.00920+ 4 0.0	+ 0	1.66076- 82945	1454	348
4.00930+ 4 0.0	+ 0	5.66261- 7	4.00940+ 4 0.0	+ 0	1.28559- 52945	1454	349
4.00950+ 4 0.0	+ 0	1.68508- 4	4.00960+ 4 0.0	+ 0	1.21701- 32945	1454	350
4.00970+ 4 0.0	+ 0	6.01029- 3	4.00980+ 4 0.0	+ 0	1.76733- 22945	1454	351
4.00990+ 4 0.0	+ 0	3.63743- 2	4.01000+ 4 0.0	+ 0	4.38442- 22945	1454	352
4.01010+ 4 0.0	+ 0	3.93503- 2	4.01020+ 4 0.0	+ 0	2.84021- 22945	1454	353
4.01030+ 4 0.0	+ 0	1.30128- 2	4.01040+ 4 0.0	+ 0	4.63740- 32945	1454	354
4.01050+ 4 0.0	+ 0	7.06308- 4	4.01060+ 4 0.0	+ 0	7.89864- 52945	1454	355
4.01070+ 4 0.0	+ 0	3.32083- 6	4.01080+ 4 0.0	+ 0	2.40111- 82945	1454	356
4.01090+ 4 0.0	+ 0	2.09194-10	4.01100+ 4 0.0	+ 0	2.72125-122945	1454	357
4.10890+ 4 0.0	+ 0	0.0 + 0	4.10890+ 4 1.00000+	+ 0	0.0 + 02945	1454	358
4.10900+ 4 0.0	+ 0	0.0 + 0	4.10910+ 4 0.0	+ 0	0.0 + 02945	1454	359

4.10910+	4	1.00000+	0	0.0	+ 0	4.10920+	4	0.0	+ 0	1.42065-132945	1454	360	
4.10920+	4	1.00000+	0	1.42065-13		4.10930+	4	0.0	+ 0	1.80083-112945	1454	361	
4.10930+	4	1.00000+	0	1.81083-11		4.10940+	4	0.0	+ 0	1.40064- 92945	1454	362	
4.10940+	4	1.00000+	0	1.40064- 9		4.10950+	4	0.0	+ 0	6.49299- 82945	1454	363	
4.10950+	4	1.00000+	0	6.43296- 8		4.10960+	4	0.0	+ 0	1.29570- 42945	1454	364	
4.10970+	4	0.0	+ 0	2.32807- 5		4.10970+	4	1.00000+	0	2.32807- 52945	1454	365	
4.10980+	4	0.0	+ 0	2.05325- 4		4.10980+	4	1.00000+	0	2.05755- 42945	1454	366	
4.10990+	4	0.0	+ 0	1.21384- 3		4.10990+	4	1.00000+	0	1.21548- 32945	1454	367	
4.11000+	4	0.0	+ 0	3.70903- 3		4.11000+	4	1.00000+	0	3.70904- 32945	1454	368	
4.11010+	4	0.0	+ 0	1.67561- 2		4.11020+	4	0.0	+ 0	3.00208- 22945	1454	369	
4.11030+	4	0.0	+ 0	3.36901- 2		4.11040+	4	0.0	+ 0	3.03268- 22945	1454	370	
4.11050+	4	0.0	+ 0	1.39549- 2		4.11060+	4	0.0	+ 0	4.94442- 32945	1454	371	
4.11070+	4	0.0	+ 0	9.21165- 4		4.11080+	4	0.0	+ 0	3.19447- 52945	1454	372	
4.11090+	4	0.0	+ 0	1.09257- 6		4.11100+	4	0.0	+ 0	3.74172- 82945	1454	373	
4.11110+	4	0.0	+ 0	7.75843-10		4.20900+	4	0.0	+ 0	0.0	+ 02945	1454	374
4.20910+	4	0.0	+ 0	0.0	+ 0	4.20910+	4	1.00000+	0	0.0	+ 02945	1454	375
4.20920+	4	0.0	+ 0	0.0	+ 0	4.20930+	4	0.0	+ 0	0.0	+ 02945	1454	376
4.20930+	4	1.00000+	0	0.0	+ 0	4.20940+	4	0.0	+ 0	5.73264-142945	1454	377	
4.20950+	4	0.0	+ 0	1.08050-11		4.20960+	4	0.0	+ 0	7.18331-102945	1454	378	
4.20970+	4	0.0	+ 0	3.86178- 8		4.20980+	4	0.0	+ 0	1.10051- 62945	1454	379	
4.20990+	4	0.0	+ 0	2.06595- 5		4.21000+	4	0.0	+ 0	1.77672- 42945	1454	380	
4.21010+	4	0.0	+ 0	1.12313- 3		4.21020+	4	0.0	+ 0	5.39720- 32945	1454	381	
4.21030+	4	0.0	+ 0	1.55041- 2		4.21040+	4	0.0	+ 0	3.33931- 22945	1454	382	
4.21050+	4	0.0	+ 0	4.21632- 2		4.21060+	4	0.0	+ 0	4.19899- 22945	1454	383	
4.21070+	4	0.0	+ 0	2.44258- 2		4.21080+	4	0.0	+ 0	4.51906- 32945	1454	384	
4.21090+	4	0.0	+ 0	4.77488- 4		4.21100+	4	0.0	+ 0	4.98630- 52945	1454	385	
4.21110+	4	0.0	+ 0	2.87720- 6		4.21120+	4	0.0	+ 0	2.09096- 72945	1454	386	
4.21130+	4	0.0	+ 0	1.44785- 8		4.21140+	4	0.0	+ 0	4.96229-102945	1454	387	
4.21150+	4	0.0	+ 0	1.03149-11		4.21160+	4	0.0	+ 0	1.69078-132945	1454	388	
4.30930+	4	0.0	+ 0	0.0	+ 0	4.30930+	4	1.00000+	0	0.0	+ 02945	1454	389
4.30950+	4	0.0	+ 0	0.0	+ 0	4.30950+	4	1.00000+	0	0.0	+ 02945	1454	390
4.30970+	4	0.0	+ 0	3.43158-13		4.30970+	4	1.00000+	0	3.56164-132945	1454	391	
4.30980+	4	0.0	+ 0	6.81314-11		4.30990+	4	0.0	+ 0	2.05094- 92945	1454	392	
4.30990+	4	1.00000+	0	2.05094- 9		4.31000+	4	0.0	+ 0	1.08050- 72945	1454	393	
4.31010+	4	0.0	+ 0	2.08096- 6		4.31020+	4	0.0	+ 0	1.28759- 52945	1454	394	
4.31020+	4	1.00000+	0	1.47968- 5		4.31030+	4	0.0	+ 0	2.35969- 42945	1454	395	
4.31040+	4	0.0	+ 0	1.37845- 3		4.31050+	4	0.0	+ 0	5.27117- 32945	1454	396	
4.31060+	4	0.0	+ 0	1.43047- 2		4.31070+	4	0.0	+ 0	2.39810- 22945	1454	397	
4.31080+	4	0.0	+ 0	1.99958- 2		4.31090+	4	0.0	+ 0	6.60131- 32945	1454	398	
4.31100+	4	0.0	+ 0	1.71789- 3		4.31110+	4	0.0	+ 0	3.12177- 42945	1454	399	
4.31120+	4	0.0	+ 0	4.33099- 5		4.31130+	4	0.0	+ 0	7.95320- 62945	1454	400	
4.31140+	4	0.0	+ 0	6.39294- 7		4.31150+	4	0.0	+ 0	4.08588- 82945	1454	401	
4.31160+	4	0.0	+ 0	1.81083- 9		4.31170+	4	0.0	+ 0	6.37890-112945	1454	402	
4.40950+	4	0.0	+ 0	0.0	+ 0	4.40970+	4	0.0	+ 0	0.0	+ 02945	1454	403
4.40980+	4	0.0	+ 0	0.0	+ 0	4.40990+	4	0.0	+ 0	7.91364-142945	1454	404	
4.41000+	4	0.0	+ 0	6.40295-12		4.41010+	4	0.0	+ 0	3.85177-102945	1454	405	
4.41020+	4	0.0	+ 0	1.70078- 8		4.41030+	4	0.0	+ 0	3.99184- 72945	1454	406	
4.41040+	4	0.0	+ 0	6.90318- 6		4.41050+	4	0.0	+ 0	8.59596- 52945	1454	407	
4.41060+	4	0.0	+ 0	7.50386- 4		4.41070+	4	0.0	+ 0	3.98788- 32945	1454	408	
4.41080+	4	0.0	+ 0	1.52248- 2		4.41090+	4	0.0	+ 0	1.44868- 22945	1454	409	
4.41100+	4	0.0	+ 0	8.54586- 3		4.41110+	4	0.0	+ 0	3.51683- 32945	1454	410	
4.41120+	4	0.0	+ 0	1.08389- 3		4.41130+	4	0.0	+ 0	4.10975- 42945	1454	411	
4.41140+	4	0.0	+ 0	8.79405- 5		4.41150+	4	0.0	+ 0	1.36855- 52945	1454	412	
4.41160+	4	0.0	+ 0	1.89087- 6		4.41170+	4	0.0	+ 0	1.97067- 72945	1454	413	
4.41180+	4	0.0	+ 0	2.44112- 8		4.41200+	4	0.0	+ 0	1.73080-102945	1454	414	
4.41220+	4	0.0	+ 0	4.00184-13		4.41240+	4	0.0	+ 0	0.0	+ 02945	1454	415
4.50990+	4	0.0	+ 0	0.0	+ 0	4.50990+	4	1.00000+	0	0.0	+ 02945	1454	416
4.51010+	4	0.0	+ 0	0.0	+ 0	4.51010+	4	1.00000+	0	0.0	+ 02945	1454	417
4.51020+	4	0.0	+ 0	1.03047-13		4.51020+	4	1.00000+	0	1.03047-132945	1454	418	
4.51030+	4	0.0	+ 0	5.60258- 7		4.51030+	4	1.00000+	0	2.52116-112945	1454	419	
4.51040+	4	0.0	+ 0	3.86178-10		4.51040+	4	1.00000+	0	4.06187-102945	1454	420	
4.51050+	4	0.0	+ 0	1.77082- 8		4.51050+	4	1.00000+	0	1.77082- 82945	1454	421	
4.51060+	4	0.0	+ 0	5.26242- 7		4.51060+	4	1.00000+	0	5.26242- 72945	1454	422	
4.51070+	4	0.0	+ 0	2.00392- 5		4.51080+	4	0.0	+ 0	2.08846- 42945	1454	423	
4.51080+	4	1.00000+	0	2.08856- 4		4.51090+	4	0.0	+ 0	6.27779- 42945	1454	424	
4.51090+	4	1.00000+	0	6.27129- 4		4.51100+	4	0.0	+ 0	8.63488- 42945	1454	425	
4.51100+	4	1.00000+	0	8.63207- 4		4.51110+	4	0.0	+ 0	1.78214- 32945	1454	426	
4.51120+	4	0.0	+ 0	1.01204- 3		4.51130+	4	0.0	+ 0	8.34634- 42945	1454	427	
4.51140+	4	0.0	+ 0	3.79195- 4		4.51150+	4	0.0	+ 0	1.48728- 42945	1454	428	
4.51160+	4	0.0	+ 0	5.21240- 5		4.51170+	4	0.0	+ 0	1.79712- 52945	1454	429	
4.51180+	4	0.0	+ 0	4.91226- 6		4.51190+	4	0.0	+ 0	1.27059- 62945	1454	430	
4.51200+	4	0.0	+ 0	2.16100- 7		4.51210+	4	0.0	+ 0	3.00138- 82945	1454	431	

4.51220+	4 0.0	+ 0 3.15145-	9 4.51230+	4 0.0	+ 0 1.51070-	102945	1454	432
4.51240+	4 0.0	+ 0 4.16192-	11 4.60990+	4 0.0	+ 0 0.0	+ 02945	1454	433
4.61010+	4 0.0	+ 0 0.0	+ 0 4.61020+	4 0.0	+ 0 0.0	+ 02945	1454	434
4.61030+	4 0.0	+ 0 0.0	+ 0 4.61040+	4 0.0	+ 0 0.0	+ 02945	1454	435
4.61050+	4 0.0	+ 0 1.69078-	8 4.61060+	4 0.0	+ 0 1.48068-	102945	1454	436
4.61070+	4 0.0	+ 0 5.26242-	9 4.61070+	4 1.00000+	0 4.76219-	92945	1454	437
4.61080+	4 0.0	+ 0 1.34062-	6 4.61090+	4 0.0	+ 0 7.13328-	62945	1454	438
4.61090+	4 1.00000+	0 7.13328-	6 4.61100+	4 0.0	+ 0 5.03932-	52945	1454	439
4.61110+	4 0.0	+ 0 5.64760-	5 4.61110+	4 1.00000+	0 5.53355-	52945	1454	440
4.61120+	4 0.0	+ 0 1.59924-	4 4.61130+	4 0.0	+ 0 2.92475-	42945	1454	441
4.61140+	4 0.0	+ 0 2.79819-	4 4.61150+	4 0.0	+ 0 2.76097-	42945	1454	442
4.61160+	4 0.0	+ 0 2.10517-	4 4.61170+	4 0.0	+ 0 1.73130-	42945	1454	443
4.61180+	4 0.0	+ 0 1.19625-	4 4.61190+	4 0.0	+ 0 7.03924-	52945	1454	444
4.61200+	4 0.0	+ 0 2.89033-	5 4.61210+	4 0.0	+ 0 9.59442-	62945	1454	445
4.61220+	4 0.0	+ 0 2.45113-	6 4.61230+	4 0.0	+ 0 3.57164-	72945	1454	446
4.61240+	4 0.0	+ 0 1.60074-	7 4.61260+	4 0.0	+ 0 6.74311-	92945	1454	447
4.61280+	4 0.0	+ 0 7.78357-	11 4.61300+	4 0.0	+ 0 9.47436-	142945	1454	448
4.71030+	4 0.0	+ 0 0.0	+ 0 4.71030+	4 1.00000+	0 0.0	+ 02945	1454	449
4.71050+	4 0.0	+ 0 0.0	+ 0 4.71050+	4 1.00000+	0 0.0	+ 02945	1454	450
4.71060+	4 0.0	+ 0 0.0	+ 0 4.71060+	4 1.00000+	0 0.0	+ 02945	1454	451
4.71070+	4 0.0	+ 0 6.08280-	14 4.71070+	4 1.00000+	0 5.82268-	142945	1454	452
4.71080+	4 0.0	+ 0 4.62213-	11 4.71080+	4 1.00000+	0 4.61212-	112945	1454	453
4.71090+	4 0.0	+ 0 1.41065-	8 4.71090+	4 1.00000+	0 2.85131-	92945	1454	454
4.71100+	4 0.0	+ 0 1.71079-	8 4.71100+	4 1.00000+	0 1.90088-	82945	1454	455
4.71110+	4 0.0	+ 0 1.15053-	7 4.71110+	4 1.00000+	0 1.11051-	72945	1454	456
4.71120+	4 0.0	+ 0 7.58349-	7 4.71130+	4 0.0	+ 0 1.70078-	62945	1454	457
4.71130+	4 1.00000+	0 1.68077-	6 4.71140+	4 0.0	+ 0 7.52346-	62945	1454	458
4.71150+	4 0.0	+ 0 8.95412-	6 4.71150+	4 1.00000+	0 8.93411-	62945	1454	459
4.71160+	4 0.0	+ 0 1.75281-	5 4.71160+	4 1.00000+	0 1.75281-	52945	1454	460
4.71170+	4 0.0	+ 0 3.33954-	5 4.71170+	4 1.00000+	0 3.33954-	52945	1454	461
4.71180+	4 0.0	+ 0 5.45551-	5 4.71180+	4 1.00000+	0 5.45451-	52945	1454	462
4.71190+	4 0.0	+ 0 1.34282-	4 4.71200+	4 0.0	+ 0 1.21476-	42945	1454	463
4.71210+	4 0.0	+ 0 8.85308-	5 4.71220+	4 0.0	+ 0 5.10435-	52945	1454	464
4.71230+	4 0.0	+ 0 2.11397-	5 4.71240+	4 0.0	+ 0 1.50369-	52945	1454	465
4.71250+	4 0.0	+ 0 7.54347-	6 4.71260+	4 0.0	+ 0 3.51162-	62945	1454	466
4.71280+	4 0.0	+ 0 2.92135-	7 4.71290+	4 0.0	+ 0 3.00339-	82945	1454	467
4.71300+	4 0.0	+ 0 3.40157-	9 4.81050+	4 0.0	+ 0 0.0	+ 02945	1454	468
4.81060+	4 0.0	+ 0 0.0	+ 0 4.81070+	4 0.0	+ 0 0.0	+ 02945	1454	469
4.81080+	4 0.0	+ 0 0.0	+ 0 4.81090+	4 0.0	+ 0 1.21056-	132945	1454	470
4.81100+	4 0.0	+ 0 2.79129-	12 4.81110+	4 0.0	+ 0 2.15099-	112945	1454	471
4.81110+	4 1.00000+	0 2.00092-	11 4.81120+	4 0.0	+ 0 3.74172-	102945	1454	472
4.81130+	4 0.0	+ 0 2.13098-	9 4.81130+	4 1.00000+	0 2.13098-	92945	1454	473
4.81140+	4 0.0	+ 0 2.34108-	8 4.81150+	4 0.0	+ 0 1.27059-	72945	1454	474
4.81150+	4 1.00000+	0 7.82360-	8 4.81160+	4 0.0	+ 0 8.15375-	72945	1454	475
4.81170+	4 0.0	+ 0 2.01093-	6 4.81170+	4 1.00000+	0 2.01093-	62945	1454	476
4.81180+	4 0.0	+ 0 1.67677-	5 4.81190+	4 0.0	+ 0 2.25004-	52945	1454	477
4.81190+	4 1.00000+	0 2.25004-	5 4.81200+	4 0.0	+ 0 8.70001-	52945	1454	478
4.81210+	4 0.0	+ 0 1.32861-	4 4.81220+	4 0.0	+ 0 1.61724-	42945	1454	479
4.81230+	4 0.0	+ 0 1.70428-	4 4.81240+	4 0.0	+ 0 1.83545-	42945	1454	480
4.81250+	4 0.0	+ 0 1.93199-	4 4.81260+	4 0.0	+ 0 2.06105-	42945	1454	481
4.81270+	4 0.0	+ 0 2.61420-	4 4.81280+	4 0.0	+ 0 1.11411-	42945	1454	482
4.81290+	4 0.0	+ 0 3.52535-	5 4.81300+	4 0.0	+ 0 1.16053-	52945	1454	483
4.81310+	4 0.0	+ 0 1.39064-	6 4.81320+	4 0.0	+ 0 7.42342-	82945	1454	484
4.81360+	4 0.0	+ 0 0.0	+ 0 4.91070+	4 0.0	+ 0 0.0	+ 02945	1454	485
4.91090+	4 0.0	+ 0 0.0	+ 0 4.91090+	4 1.00000+	0 0.0	+ 02945	1454	486
4.91110+	4 0.0	+ 0 0.0	+ 0 4.91110+	4 1.00000+	0 0.0	+ 02945	1454	487
4.91120+	4 0.0	+ 0 0.0	+ 0 4.91120+	4 1.00000+	0 0.0	+ 02945	1454	488
4.91130+	4 0.0	+ 0 6.06279-	14 4.91130+	4 1.00000+	0 5.80267-	142945	1454	489
4.91140+	4 0.0	+ 0 8.18377-	13 4.91140+	4 1.00000+	0 7.96367-	132945	1454	490
4.91150+	4 0.0	+ 0 1.65076-	11 4.91150+	4 1.00000+	0 1.65076-	112945	1454	491
4.91160+	4 0.0	+ 0 2.41111-	10 4.91160+	4 1.00000+	0 2.41111-	102945	1454	492
4.91170+	4 0.0	+ 0 3.30152-	9 4.91170+	4 1.00000+	0 3.30152-	92945	1454	493
4.91180+	4 0.0	+ 0 3.86178-	8 4.91180+	4 1.00000+	0 3.86178-	82945	1454	494
4.91190+	4 0.0	+ 0 2.45113-	7 4.91190+	4 1.00000+	0 2.45113-	72945	1454	495
4.91200+	4 0.0	+ 0 1.14053-	6 4.91200+	4 1.00000+	0 1.14053-	62945	1454	496
4.91210+	4 0.0	+ 0 3.92181-	6 4.91210+	4 1.00000+	0 3.92181-	62945	1454	497
4.91220+	4 0.0	+ 0 1.03548-	5 4.91220+	4 1.00000+	0 1.03548-	52945	1454	498
4.91230+	4 0.0	+ 0 2.76627-	5 4.91230+	4 1.00000+	0 2.76627-	52945	1454	499
4.91240+	4 0.0	+ 0 8.72302-	5 4.91250+	4 0.0	+ 0 9.25326-	52945	1454	500
4.91250+	4 1.00000+	0 9.25326-	5 4.91260+	4 0.0	+ 0 4.15061-	42945	1454	501
4.91270+	4 0.0	+ 0 5.74284-	4 4.91270+	4 1.00000+	0 5.74294-	42945	1454	502
4.91280+	4 0.0	+ 0 1.20735-	3 4.91290+	4 0.0	+ 0 1.29011-	32945	1454	503

4.91300+	4 0.0	+ 0	9.69236-	4	4.91310+	4 0.0	+ 0	3.88209-	42945	1454	504
4.91320+	4 0.0	+ 0	7.07026-	5	4.91330+	4 0.0	+ 0	5.92273-	62945	1454	505
4.91340+	4 0.0	+ 0	1.79082-	7	4.91360+	4 0.0	+ 0	3.88179-	112945	1454	506
5.01110+	4 0.0	+ 0	0.0	+ 0	5.01120+	4 0.0	+ 0	0.0	+ 02945	1454	507
5.01130+	4 0.0	+ 0	0.0	+ 0	5.01130+	4 1.00000+	0	0.0	+ 02945	1454	508
5.01140+	4 0.0	+ 0	0.0	+ 0	5.01150+	4 0.0	+ 0	0.0	+ 02945	1454	509
5.01160+	4 0.0	+ 0	2.76127-	14	5.01170+	4 0.0	+ 0	5.40249-	132945	1454	510
5.01170+	4 1.00000+	0	5.11235-	13	5.01180+	4 0.0	+ 0	3.70170-	112945	1454	511
5.01190+	4 0.0	+ 0	2.92135-	10	5.01190+	4 1.00000+	0	2.92135-	102945	1454	512
5.01200+	4 0.0	+ 0	6.91318-	9	5.01210+	4 0.0	+ 0	2.88133-	82945	1454	513
5.01210+	4 1.00000+	0	2.88133-	8	5.01220+	4 0.0	+ 0	3.63167-	72945	1454	514
5.01230+	4 0.0	+ 0	1.37063-	6	5.01230+	4 1.00000+	0	1.37063-	62945	1454	515
5.01240+	4 0.0	+ 0	6.78312-	6	5.01250+	4 0.0	+ 0	1.49869-	52945	1454	516
5.01250+	4 1.00000+	0	1.49769-	5	5.01260+	4 0.0	+ 0	1.44897-	42945	1454	517
5.01270+	4 0.0	+ 0	4.33260-	4	5.01270+	4 1.00000+	0	4.37301-	42945	1454	518
5.01280+	4 0.0	+ 0	2.08999-	3	5.01290+	4 0.0	+ 0	2.74296-	32945	1454	519
5.01290+	4 1.00000+	0	2.74317-	3	5.01300+	4 0.0	+ 0	1.06625-	22945	1454	520
5.01310+	4 0.0	+ 0	1.27511-	2	5.01320+	4 0.0	+ 0	7.29996-	32945	1454	521
5.01330+	4 0.0	+ 0	2.19078-	3	5.01340+	4 0.0	+ 0	2.69544-	42945	1454	522
5.01350+	4 0.0	+ 0	1.71679-	5	5.01360+	4 0.0	+ 0	8.11374-	72945	1454	523
5.01370+	4 0.0	+ 0	2.09096-	8	5.01380+	4 0.0	+ 0	3.59165-	102945	1454	524
5.11130+	4 0.0	+ 0	0.0	+ 0	5.11150+	4 0.0	+ 0	0.0	+ 02945	1454	525
5.11170+	4 0.0	+ 0	0.0	+ 0	5.11180+	4 0.0	+ 0	0.0	+ 02945	1454	526
5.11180+	4 1.00000+	0	0.0	+ 0	5.11190+	4 0.0	+ 0	1.51070-	142945	1454	527
5.11200+	4 0.0	+ 0	2.29105-	13	5.11200+	4 1.00000+	0	2.29105-	132945	1454	528
5.11210+	4 0.0	+ 0	1.01047-	11	5.11220+	4 0.0	+ 0	7.57349-	112945	1454	529
5.11220+	4 1.00000+	0	7.93364-	11	5.11230+	4 0.0	+ 0	3.66169-	92945	1454	530
5.11240+	4 0.0	+ 0	7.25334-	9	5.11240+	4 1.00000+	0	7.28335-	92945	1454	531
5.11250+	4 0.0	+ 0	1.46067-	7	5.11260+	4 0.0	+ 0	8.41387-	72945	1454	532
5.11260+	4 1.00000+	0	8.41387-	7	5.11270+	4 0.0	+ 0	2.40211-	52945	1454	533
5.11280+	4 0.0	+ 0	7.25534-	5	5.11280+	4 1.00000+	0	7.26334-	52945	1454	534
5.11290+	4 0.0	+ 0	9.51408-	4	5.11300+	4 0.0	+ 0	2.32611-	32945	1454	535
5.11300+	4 1.00000+	0	2.32674-	3	5.11310+	4 0.0	+ 0	1.51544-	22945	1454	536
5.11320+	4 0.0	+ 0	1.21782-	2	5.11320+	4 1.00000+	0	1.21781-	22945	1454	537
5.11330+	4 0.0	+ 0	2.31186-	2	5.11340+	4 0.0	+ 0	5.19770-	32945	1454	538
5.11340+	4 1.00000+	0	5.19771-	3	5.11350+	4 0.0	+ 0	2.35187-	32945	1454	539
5.11360+	4 0.0	+ 0	3.86338-	4	5.11370+	4 0.0	+ 0	3.43258-	52945	1454	540
5.11380+	4 0.0	+ 0	2.01093-	6	5.11390+	4 0.0	+ 0	7.56348-	82945	1454	541
5.11410+	4 0.0	+ 0	1.68178-	11	5.21150+	4 0.0	+ 0	0.0	+ 02945	1454	542
5.21170+	4 0.0	+ 0	0.0	+ 0	5.21180+	4 0.0	+ 0	0.0	+ 02945	1454	543
5.21190+	4 0.0	+ 0	0.0	+ 0	5.21190+	4 1.00000+	0	0.0	+ 02945	1454	544
5.21200+	4 0.0	+ 0	0.0	+ 0	5.21210+	4 0.0	+ 0	0.0	+ 02945	1454	545
5.21210+	4 1.00000+	0	0.0	+ 0	5.21220+	4 0.0	+ 0	0.0	+ 02945	1454	546
5.21230+	4 0.0	+ 0	2.33107-	13	5.21230+	4 1.00000+	0	2.41111-	132945	1454	547
5.21240+	4 0.0	+ 0	3.15145-	12	5.21250+	4 0.0	+ 0	3.72171-	112945	1454	548
5.21250+	4 1.00000+	0	3.72171-	11	5.21260+	4 0.0	+ 0	2.13098-	92945	1454	549
5.21270+	4 0.0	+ 0	3.33153-	8	5.21270+	4 1.00000+	0	3.33153-	82945	1454	550
5.21280+	4 0.0	+ 0	1.27059-	6	5.21290+	4 0.0	+ 0	1.17354-	52945	1454	551
5.21290+	4 1.00000+	0	1.17354-	5	5.21300+	4 0.0	+ 0	3.20398-	42945	1454	552
5.21310+	4 0.0	+ 0	1.53346-	3	5.21310+	4 1.00000+	0	1.56247-	32945	1454	553
5.21320+	4 0.0	+ 0	1.42281-	2	5.21330+	4 0.0	+ 0	1.98135-	22945	1454	554
5.21330+	4 1.00000+	0	1.98134-	2	5.21340+	4 0.0	+ 0	5.72238-	22945	1454	555
5.21350+	4 0.0	+ 0	4.04561-	2	5.21360+	4 0.0	+ 0	2.08551-	22945	1454	556
5.21370+	4 0.0	+ 0	5.94441-	3	5.21380+	4 0.0	+ 0	1.12812-	32945	1454	557
5.21390+	4 0.0	+ 0	1.40685-	4	5.21400+	4 0.0	+ 0	1.12152-	52945	1454	558
5.21410+	4 0.0	+ 0	3.81724-	7	5.21420+	4 0.0	+ 0	1.50069-	82945	1454	559
5.21430+	4 0.0	+ 0	2.92414-	10	5.21440+	4 0.0	+ 0	3.18123-	122945	1454	560
5.31210+	4 0.0	+ 0	0.0	+ 0	5.31230+	4 0.0	+ 0	0.0	+ 02945	1454	561
5.31250+	4 0.0	+ 0	0.0	+ 0	5.31260+	4 0.0	+ 0	5.80267-	142945	1454	562
5.31270+	4 0.0	+ 0	4.95228-	12	5.31280+	4 0.0	+ 0	2.80129-	102945	1454	563
5.31290+	4 0.0	+ 0	1.48068-	8	5.31300+	4 0.0	+ 0	3.05141-	72945	1454	564
5.31300+	4 1.00000+	0	3.05141-	7	5.31310+	4 0.0	+ 0	1.97891-	52945	1454	565
5.31320+	4 0.0	+ 0	4.54809-	4	5.31330+	4 0.0	+ 0	1.32191-	32945	1454	566
5.31330+	4 1.00000+	0	1.12411-	3	5.31340+	4 0.0	+ 0	6.38621-	32945	1454	567
5.31340+	4 1.00000+	0	6.38859-	3	5.31350+	4 0.0	+ 0	2.66750-	22945	1454	568
5.31360+	4 0.0	+ 0	1.94818-	2	5.31360+	4 1.00000+	0	1.94818-	22945	1454	569
5.31370+	4 0.0	+ 0	3.15350-	2	5.31380+	4 0.0	+ 0	1.73867-	22945	1454	570
5.31390+	4 0.0	+ 0	6.61704-	3	5.31400+	4 0.0	+ 0	1.67832-	32945	1454	571
5.31410+	4 0.0	+ 0	2.36908-	4	5.31420+	4 0.0	+ 0	2.46714-	52945	1454	572
5.31430+	4 0.0	+ 0	1.67486-	6	5.31440+	4 0.0	+ 0	6.27018-	82945	1454	573
5.41250+	4 0.0	+ 0	0.0	+ 0	5.41250+	4 1.00000+	0	0.0	+ 02945	1454	574
5.41260+	4 0.0	+ 0	0.0	+ 0	5.41270+	4 0.0	+ 0	0.0	+ 02945	1454	575

5.41270+	4	1.00000+	0	0.0	+ 0	5.41280+	4	0.0	+ 0	0.0	+ 0	02945	1454	576
5.41290+	4	0.0	+ 0	4.49207-13		5.41290+	4	1.00000+	0	4.26196-13		2945	1454	577
5.41300+	4	0.0	+ 0	1.17054-10		5.41310+	4	0.0	+ 0	6.53301-		92945	1454	578
5.41310+	4	1.00000+	0	6.53301-	9	5.41320+	4	0.0	+ 0	1.38064-		62945	1454	579
5.41330+	4	0.0	+ 0	1.06649-	5	5.41330+	4	1.00000+	0	1.06649-		52945	1454	580
5.41340+	4	0.0	+ 0	2.08666-	4	5.41340+	4	1.00000+	0	2.08646-		42945	1454	581
5.41350+	4	0.0	+ 0	9.53009-	4	5.41350+	4	1.00000+	0	1.33934-		32945	1454	582
5.41360+	4	0.0	+ 0	1.26649-	2	5.41370+	4	0.0	+ 0	2.85180-		22945	1454	583
5.41380+	4	0.0	+ 0	4.18552-	2	5.41390+	4	0.0	+ 0	4.35083-		22945	1454	584
5.41400+	4	0.0	+ 0	3.12650-	2	5.41410+	4	0.0	+ 0	1.31701-		22945	1454	585
5.41420+	4	0.0	+ 0	4.27271-	3	5.41430+	4	0.0	+ 0	8.00094-		42945	1454	586
5.41440+	4	0.0	+ 0	9.93731-	5	5.41450+	4	0.0	+ 0	6.49299-		62945	1454	587
5.41460+	4	0.0	+ 0	2.59119-	7	5.41470+	4	0.0	+ 0	3.97115-		92945	1454	588
5.41480+	4	0.0	+ 0	4.06187-11		5.41500+	4	0.0	+ 0	0.0	+ 0	02945	1454	589
5.51270+	4	0.0	+ 0	0.0	+ 0	5.51290+	4	0.0	+ 0	0.0	+ 0	02945	1454	590
5.51310+	4	0.0	+ 0	1.84085-13		5.51320+	4	0.0	+ 0	3.86178-11		2945	1454	591
5.51330+	4	0.0	+ 0	4.30198-	9	5.51340+	4	0.0	+ 0	1.77082-		72945	1454	592
5.51340+	4	1.00000+	0	1.77082-	7	5.51350+	4	0.0	+ 0	4.52208-		62945	1454	593
5.51350+	4	1.00000+	0	3.95182-	6	5.51360+	4	0.0	+ 0	1.74480-		42945	1454	594
5.51370+	4	0.0	+ 0	9.48597-	4	5.51380+	4	0.0	+ 0	1.99239-		32945	1454	595
5.51380+	4	1.00000+	0	2.02371-	3	5.51390+	4	0.0	+ 0	1.15571-		22945	1454	596
5.51400+	4	0.0	+ 0	2.33427-	2	5.51410+	4	0.0	+ 0	2.52286-		22945	1454	597
5.51420+	4	0.0	+ 0	2.26667-	2	5.51430+	4	0.0	+ 0	1.20241-		22945	1454	598
5.51440+	4	0.0	+ 0	4.54570-	3	5.51450+	4	0.0	+ 0	9.43534-		42945	1454	599
5.51460+	4	0.0	+ 0	1.31140-	4	5.51470+	4	0.0	+ 0	8.52827-		62945	1454	600
5.51480+	4	0.0	+ 0	3.00138-	7	5.51500+	4	0.0	+ 0	1.24057-		102945	1454	601
5.61290+	4	0.0	+ 0	0.0	+ 0	5.61290+	4	1.00000+	0	0.0	+ 0	02945	1454	602
5.61310+	4	0.0	+ 0	0.0	+ 0	5.61310+	4	1.00000+	0	0.0	+ 0	02945	1454	603
5.61320+	4	0.0	+ 0	0.0	+ 0	5.61330+	4	0.0	+ 0	7.91364-14		2945	1454	604
5.61340+	4	0.0	+ 0	2.95136-11		5.61350+	4	0.0	+ 0	1.52070-		92945	1454	605
5.61350+	4	1.00000+	0	1.52070-	9	5.61360+	4	0.0	+ 0	1.79082-		72945	1454	606
5.61370+	4	0.0	+ 0	1.84085-	6	5.61370+	4	1.00000+	0	1.84085-		62945	1454	607
5.61380+	4	0.0	+ 0	5.83369-	5	5.61390+	4	0.0	+ 0	4.59422-		42945	1454	608
5.61400+	4	0.0	+ 0	2.58317-	3	5.61410+	4	0.0	+ 0	9.80575-		32945	1454	609
5.61420+	4	0.0	+ 0	2.05015-	2	5.61430+	4	0.0	+ 0	2.93883-		22945	1454	610
5.61440+	4	0.0	+ 0	2.91225-	2	5.61450+	4	0.0	+ 0	1.71149-		22945	1454	611
5.61460+	4	0.0	+ 0	7.48571-	3	5.61470+	4	0.0	+ 0	1.59027-		32945	1454	612
5.61480+	4	0.0	+ 0	2.19631-	4	5.61490+	4	0.0	+ 0	1.88687-		52945	1454	613
5.61500+	4	0.0	+ 0	1.09050-	6	5.61520+	4	0.0	+ 0	8.55394-10		2945	1454	614
5.61540+	4	0.0	+ 0	9.28428-14		5.71330+	4	0.0	+ 0	0.0	+ 0	02945	1454	615
5.71350+	4	0.0	+ 0	2.26104-14		5.71370+	4	0.0	+ 0	3.11143-10		2945	1454	616
5.71380+	4	0.0	+ 0	1.70078-	8	5.71390+	4	0.0	+ 0	4.82222-		72945	1454	617
5.71400+	4	0.0	+ 0	5.90172-	5	5.71410+	4	0.0	+ 0	9.18223-		52945	1454	618
5.71420+	4	0.0	+ 0	6.81484-	4	5.71430+	4	0.0	+ 0	2.77004-		32945	1454	619
5.71440+	4	0.0	+ 0	7.50353-	3	5.71450+	4	0.0	+ 0	1.25697-		22945	1454	620
5.71460+	4	0.0	+ 0	1.47019-	2	5.71470+	4	0.0	+ 0	1.01859-		22945	1454	621
5.71480+	4	0.0	+ 0	4.33319-	3	5.71490+	4	0.0	+ 0	1.18121-		32945	1454	622
5.71500+	4	0.0	+ 0	2.25264-	4	5.71510+	4	0.0	+ 0	2.62921-		52945	1454	623
5.71520+	4	0.0	+ 0	1.91088-	6	5.71530+	4	0.0	+ 0	8.24380-		82945	1454	624
5.71540+	4	0.0	+ 0	2.29105-	9	5.81350+	4	0.0	+ 0	0.0	+ 0	02945	1454	625
5.81370+	4	0.0	+ 0	0.0	+ 0	5.81370+	4	1.00000+	0	0.0	+ 0	02945	1454	626
5.81380+	4	0.0	+ 0	4.82222-13		5.81390+	4	0.0	+ 0	2.61120-11		2945	1454	627
5.81390+	4	1.00000+	0	2.48114-11		5.81400+	4	0.0	+ 0	1.19055-		72945	1454	628
5.81410+	4	0.0	+ 0	2.41111-	7	5.81420+	4	0.0	+ 0	2.69124-		62945	1454	629
5.81430+	4	0.0	+ 0	3.29952-	5	5.81440+	4	0.0	+ 0	2.92645-		42945	1454	630
5.81450+	4	0.0	+ 0	1.40714-	3	5.81460+	4	0.0	+ 0	5.02573-		32945	1454	631
5.81470+	4	0.0	+ 0	1.03752-	2	5.81480+	4	0.0	+ 0	1.30885-		22945	1454	632
5.81490+	4	0.0	+ 0	1.00316-	2	5.81500+	4	0.0	+ 0	5.63798-		32945	1454	633
5.81510+	4	0.0	+ 0	1.93206-	3	5.81520+	4	0.0	+ 0	4.42334-		42945	1454	634
5.81530+	4	0.0	+ 0	6.03678-	5	5.81540+	4	0.0	+ 0	5.43250-		62945	1454	635
5.81550+	4	0.0	+ 0	3.44158-	7	5.81560+	4	0.0	+ 0	2.18100-		82945	1454	636
5.81570+	4	0.0	+ 0	8.63398-10		5.81580+	4	0.0	+ 0	1.39064-11		2945	1454	637
5.81600+	4	0.0	+ 0	0.0	+ 0	5.91390+	4	0.0	+ 0	0.0	+ 0	02945	1454	638
5.91400+	4	0.0	+ 0	2.86132-14		5.91410+	4	0.0	+ 0	2.74126-11		2945	1454	639
5.91420+	4	0.0	+ 0	1.24057-10		5.91420+	4	1.00000+	0	1.24057-10		2945	1454	640
5.91430+	4	0.0	+ 0	2.71125-	8	5.91440+	4	0.0	+ 0	1.48068-		72945	1454	641
5.91440+	4	1.00000+	0	1.48068-	7	5.91450+	4	0.0	+ 0	4.57211-		62945	1454	642
5.91460+	4	0.0	+ 0	5.64660-	5	5.91470+	4	0.0	+ 0	4.38312-		42945	1454	643
5.91480+	4	0.0	+ 0	1.58931-	3	5.91490+	4	0.0	+ 0	3.22261-		32945	1454	644
5.91500+	4	0.0	+ 0	5.26351-	3	5.91510+	4	0.0	+ 0	4.86290-		32945	1454	645
5.91520+	4	0.0	+ 0	3.04899-	3	5.91530+	4	0.0	+ 0	1.19105-		32945	1454	646
5.91540+	4	0.0	+ 0	3.21348-	4	5.91550+	4	0.0	+ 0	5.78466-		52945	1454	647

5.91560+ 4 0.0	+ 0 9.79451- 6	5.91570+ 4 0.0	+ 0 1.11051- 62945	1454	648
5.91580+ 4 0.0	+ 0 5.73264- 8	5.91590+ 4 0.0	+ 0 1.45067- 92945	1454	649
5.91600+ 4 0.0	+ 0 1.89087-11	6.01400+ 4 0.0	+ 0 0.0 + 02945	1454	650
6.01410+ 4 0.0	+ 0 0.0 + 0	6.01410+ 4 1.00000+	+ 0 0.0 + 02945	1454	651
6.01420+ 4 0.0	+ 0 0.0 + 0	6.01430+ 4 0.0	+ 0 1.21056-122945	1454	652
6.01440+ 4 0.0	+ 0 2.96136-11	6.01450+ 4 0.0	+ 0 1.93089- 92945	1454	653
6.01460+ 4 0.0	+ 0 6.93319- 8	6.01470+ 4 0.0	+ 0 2.44112- 62945	1454	654
6.01480+ 4 0.0	+ 0 2.62821- 5	6.01490+ 4 0.0	+ 0 1.80423- 42945	1454	655
6.01500+ 4 0.0	+ 0 8.32463- 4	6.01510+ 4 0.0	+ 0 2.17295- 32945	1454	656
6.01520+ 4 0.0	+ 0 3.52267- 3	6.01530+ 4 0.0	+ 0 3.58593- 32945	1454	657
6.01540+ 4 0.0	+ 0 2.58875- 3	6.01550+ 4 0.0	+ 0 1.19928- 32945	1454	658
6.01560+ 4 0.0	+ 0 5.00160- 4	6.01570+ 4 0.0	+ 0 1.53050- 42945	1454	659
6.01580+ 4 0.0	+ 0 2.38510- 5	6.01590+ 4 0.0	+ 0 1.93089- 62945	1454	660
6.01600+ 4 0.0	+ 0 8.21378- 8	6.01610+ 4 0.0	+ 0 2.34108- 92945	1454	661
6.01620+ 4 0.0	+ 0 2.84131-11	6.01630+ 4 0.0	+ 0 2.43112-132945	1454	662
6.01640+ 4 0.0	+ 0 0.0 + 0	6.11410+ 4 0.0	+ 0 0.0 + 02945	1454	663
6.11430+ 4 0.0	+ 0 0.0 + 0	6.11440+ 4 0.0	+ 0 0.0 + 02945	1454	664
6.11450+ 4 0.0	+ 0 1.37063-14	6.11460+ 4 0.0	+ 0 2.06095-122945	1454	665
6.11470+ 4 0.0	+ 0 2.34108-10	6.11480+ 4 0.0	+ 0 5.41249- 92945	1454	666
6.11480+ 4 1.00000+	+ 0 5.41249- 9	6.11490+ 4 0.0	+ 0 2.49115- 72945	1454	667
6.11500+ 4 0.0	+ 0 3.94182- 6	6.11510+ 4 0.0	+ 0 2.95636- 52945	1454	668
6.11520+ 4 0.0	+ 0 7.68354- 5	6.11520+ 4 1.00000+	+ 0 7.68354- 52945	1454	669
6.11530+ 4 0.0	+ 0 4.36811- 4	6.11540+ 4 0.0	+ 0 4.20153- 42945	1454	670
6.11540+ 4 1.00000+	+ 0 4.20534- 4	6.11550+ 4 0.0	+ 0 9.36301- 42945	1454	671
6.11560+ 4 0.0	+ 0 9.08849- 4	6.11570+ 4 0.0	+ 0 6.59924- 42945	1454	672
6.11580+ 4 0.0	+ 0 2.80199- 4	6.11590+ 4 0.0	+ 0 6.65406- 52945	1454	673
6.11600+ 4 0.0	+ 0 8.65399- 6	6.11610+ 4 0.0	+ 0 7.77358- 72945	1454	674
6.11620+ 4 0.0	+ 0 3.05141- 8	6.11630+ 4 0.0	+ 0 8.57395-102945	1454	675
6.11640+ 4 0.0	+ 0 1.37063-11	6.11650+ 4 0.0	+ 0 1.41065-132945	1454	676
6.21430+ 4 0.0	+ 0 0.0 + 0	6.21430+ 4 1.00000+	+ 0 0.0 + 02945	1454	677
6.21440+ 4 0.0	+ 0 0.0 + 0	6.21450+ 4 0.0	+ 0 0.0 + 02945	1454	678
6.21460+ 4 0.0	+ 0 0.0 + 0	6.21470+ 4 0.0	+ 0 0.0 + 02945	1454	679
6.21480+ 4 0.0	+ 0 4.27197-13	6.21490+ 4 0.0	+ 0 3.49161-112945	1454	680
6.21500+ 4 0.0	+ 0 1.95090- 9	6.21510+ 4 0.0	+ 0 6.15283- 82945	1454	681
6.21520+ 4 0.0	+ 0 8.16376- 7	6.21530+ 4 0.0	+ 0 7.22333- 62945	1454	682
6.21540+ 4 0.0	+ 0 4.17092- 5	6.21550+ 4 0.0	+ 0 1.23807- 42945	1454	683
6.21560+ 4 0.0	+ 0 2.71785- 4	6.21570+ 4 0.0	+ 0 4.88065- 42945	1454	684
6.21580+ 4 0.0	+ 0 5.23341- 4	6.21590+ 4 0.0	+ 0 3.30192- 42945	1454	685
6.21600+ 4 0.0	+ 0 1.17364- 4	6.21610+ 4 0.0	+ 0 3.00939- 52945	1454	686
6.21620+ 4 0.0	+ 0 3.53163- 6	6.21630+ 4 0.0	+ 0 3.08142- 72945	1454	687
6.21640+ 4 0.0	+ 0 1.57072- 8	6.21650+ 4 0.0	+ 0 5.28243-102945	1454	688
6.21660+ 4 0.0	+ 0 2.50115-11	6.21670+ 4 0.0	+ 0 4.85223-132945	1454	689
6.21680+ 4 0.0	+ 0 0.0 + 0	6.21700+ 4 0.0	+ 0 0.0 + 02945	1454	690
6.31470+ 4 0.0	+ 0 0.0 + 0	6.31490+ 4 0.0	+ 0 0.0 + 02945	1454	691
6.31510+ 4 0.0	+ 0 1.82084-12	6.31520+ 4 0.0	+ 0 5.42250-112945	1454	692
6.31520+ 4 1.00000+	+ 0 5.42250-11	6.31530+ 4 0.0	+ 0 2.99138- 92945	1454	693
6.31540+ 4 0.0	+ 0 5.56256- 8	6.31550+ 4 0.0	+ 0 4.79221- 72945	1454	694
6.31560+ 4 0.0	+ 0 4.93227- 6	6.31570+ 4 0.0	+ 0 1.30860- 52945	1454	695
6.31580+ 4 0.0	+ 0 3.92481- 5	6.31590+ 4 0.0	+ 0 6.67908- 52945	1454	696
6.31600+ 4 0.0	+ 0 6.14283- 5	6.31610+ 4 0.0	+ 0 4.16592- 52945	1454	697
6.31620+ 4 0.0	+ 0 1.30560- 5	6.31630+ 4 0.0	+ 0 3.16146- 62945	1454	698
6.31640+ 4 0.0	+ 0 4.69216- 7	6.31650+ 4 0.0	+ 0 4.81222- 82945	1454	699
6.31660+ 4 0.0	+ 0 7.17330- 9	6.31670+ 4 0.0	+ 0 4.48206-102945	1454	700
6.31680+ 4 0.0	+ 0 1.69078-11	6.31690+ 4 0.0	+ 0 3.74172-132945	1454	701
6.31700+ 4 0.0	+ 0 0.0 + 0	6.41470+ 4 0.0	+ 0 0.0 + 02945	1454	702
6.41490+ 4 0.0	+ 0 0.0 + 0	6.41510+ 4 0.0	+ 0 0.0 + 02945	1454	703
6.41520+ 4 0.0	+ 0 0.0 + 0	6.41530+ 4 0.0	+ 0 1.12052-132945	1454	704
6.41540+ 4 0.0	+ 0 7.33338-12	6.41550+ 4 0.0	+ 0 1.91088-102945	1454	705
6.41560+ 4 0.0	+ 0 3.07141- 9	6.41570+ 4 0.0	+ 0 4.08188- 82945	1454	706
6.41580+ 4 0.0	+ 0 3.75173- 7	6.41590+ 4 0.0	+ 0 1.95090- 62945	1454	707
6.41600+ 4 0.0	+ 0 5.33246- 6	6.41610+ 4 0.0	+ 0 9.97459- 62945	1454	708
6.41620+ 4 0.0	+ 0 8.28381- 6	6.41630+ 4 0.0	+ 0 5.23241- 62945	1454	709
6.41640+ 4 0.0	+ 0 2.05094- 6	6.41650+ 4 0.0	+ 0 5.72264- 72945	1454	710
6.41660+ 4 0.0	+ 0 2.42111- 7	6.41670+ 4 0.0	+ 0 4.50207- 82945	1454	711
6.41680+ 4 0.0	+ 0 5.26242- 9	6.41690+ 4 0.0	+ 0 3.69170-102945	1454	712
6.41700+ 4 0.0	+ 0 1.22056-11	6.41710+ 4 0.0	+ 0 1.72079-132945	1454	713
6.41720+ 4 0.0	+ 0 0.0 + 0	6.51510+ 4 0.0	+ 0 0.0 + 02945	1454	714
6.51530+ 4 0.0	+ 0 0.0 + 0	6.51550+ 4 0.0	+ 0 0.0 + 02945	1454	715
6.51560+ 4 0.0	+ 0 3.63167-14	6.51560+ 4 1.00000+	+ 0 3.59165-142945	1454	716
6.51570+ 4 0.0	+ 0 2.76127-12	6.51580+ 4 0.0	+ 0 4.51208-112945	1454	717
6.51580+ 4 1.00000+	+ 0 4.33199-11	6.51590+ 4 0.0	+ 0 1.47068- 92945	1454	718
6.51600+ 4 0.0	+ 0 1.29059- 8	6.51610+ 4 0.0	+ 0 7.51346- 82945	1454	719

6.51620+	4 0.0	+ 0	9.45435-	8	6.51620+	4 1.00000+	0	9.46436-	82945	1454	720		
6.51630+	4 0.0	+ 0	3.44158-	7	6.51640+	4 0.0	+ 0	3.65168-	72945	1454	721		
6.51650+	4 0.0	+ 0	2.69124-	7	6.51660+	4 0.0	+ 0	2.97137-	72945	1454	722		
6.51670+	4 0.0	+ 0	1.46067-	7	6.51680+	4 0.0	+ 0	4.72217-	82945	1454	723		
6.51690+	4 0.0	+ 0	9.61443-	9	6.51700+	4 0.0	+ 0	9.64444-	102945	1454	724		
6.51710+	4 0.0	+ 0	4.25196-	11	6.51720+	4 0.0	+ 0	2.09096-	122945	1454	725		
6.61550+	4 0.0	+ 0	0.0	+ 0	6.61560+	4 0.0	+ 0	0.0	+ 02945	1454	726		
6.61570+	4 0.0	+ 0	0.0	+ 0	6.61580+	4 0.0	+ 0	0.0	+ 02945	1454	727		
6.61590+	4 0.0	+ 0	1.03047-	13	6.61600+	4 0.0	+ 0	3.15145-	122945	1454	728		
6.61610+	4 0.0	+ 0	6.32291-	11	6.61620+	4 0.0	+ 0	4.92227-	102945	1454	729		
6.61630+	4 0.0	+ 0	2.84131-	9	6.61640+	4 0.0	+ 0	9.30428-	92945	1454	730		
6.61650+	4 0.0	+ 0	1.01047-	8	6.61650+	4 1.00000+	0	1.01047-	82945	1454	731		
6.61660+	4 0.0	+ 0	6.22287-	8	6.61670+	4 0.0	+ 0	8.21378-	82945	1454	732		
6.61680+	4 0.0	+ 0	6.91318-	8	6.61690+	4 0.0	+ 0	3.72171-	82945	1454	733		
6.61700+	4 0.0	+ 0	1.01047-	8	6.61710+	4 0.0	+ 0	1.25058-	92945	1454	734		
6.61720+	4 0.0	+ 0	1.82084-	10	6.71590+	4 0.0	+ 0	0.0	+ 02945	1454	735		
6.71590+	4 1.00000+	0	0.0	+ 0	6.71610+	4 0.0	+ 0	0.0	+ 02945	1454	736		
6.71610+	4 1.00000+	0	0.0	+ 0	6.71620+	4 0.0	+ 0	1.54071-	142945	1454	737		
6.71620+	4 1.00000+	0	1.58073-	14	6.71630+	4 0.0	+ 0	2.94135-	132945	1454	738		
6.71630+	4 1.00000+	0	2.81129-	13	6.71640+	4 0.0	+ 0	3.10143-	122945	1454	739		
6.71640+	4 1.00000+	0	3.02139-	12	6.71650+	4 0.0	+ 0	4.19193-	112945	1454	740		
6.71660+	4 0.0	+ 0	2.03094-	10	6.71660+	4 1.00000+	0	2.03094-	102945	1454	741		
6.71670+	4 0.0	+ 0	1.63075-	9	6.71680+	4 0.0	+ 0	3.97183-	92945	1454	742		
6.71690+	4 0.0	+ 0	5.82268-	9	6.71700+	4 0.0	+ 0	2.08096-	92945	1454	743		
6.71700+	4 1.00000+	0	2.09096-	9	6.71710+	4 0.0	+ 0	1.36063-	92945	1454	744		
6.71720+	4 0.0	+ 0	5.21240-	10	6.81610+	4 0.0	+ 0	0.0	+ 02945	1454	745		
6.81620+	4 0.0	+ 0	0.0	+ 0	6.81630+	4 0.0	+ 0	0.0	+ 02945	1454	746		
6.81640+	4 0.0	+ 0	0.0	+ 0	6.81650+	4 0.0	+ 0	0.0	+ 02945	1454	747		
6.81660+	4 0.0	+ 0	2.81129-	13	6.81670+	4 0.0	+ 0	1.83084-	122945	1454	748		
6.81670+	4 1.00000+	0	1.83084-	12	6.81680+	4 0.0	+ 0	2.84131-	112945	1454	749		
6.81690+	4 0.0	+ 0	1.28059-	10	6.81700+	4 0.0	+ 0	2.73126-	102945	1454	750		
6.81710+	4 0.0	+ 0	2.50115-	10	6.81720+	4 0.0	+ 0	2.59119-	102945	1454	751		
6.91650+	4 0.0	+ 0	0.0	+ 0	6.91660+	4 0.0	+ 0	0.0	+ 02945	1454	752		
6.91670+	4 0.0	+ 0	0.0	+ 0	6.91680+	4 0.0	+ 0	0.0	+ 02945	1454	753		
6.91690+	4 0.0	+ 0	7.17330-	14	6.91700+	4 0.0	+ 0	4.64214-	132945	1454	754		
6.91710+	4 0.0	+ 0	1.41065-	12	6.91720+	4 0.0	+ 0	4.46205-	122945	1454	755		
7.01660+	4 0.0	+ 0	0.0	+ 0	7.01670+	4 0.0	+ 0	0.0	+ 02945	1454	756		
7.01680+	4 0.0	+ 0	0.0	+ 0	7.01690+	4 0.0	+ 0	0.0	+ 02945	1454	757		
7.01690+	4 1.00000+	0	0.0	+ 0	7.01700+	4 0.0	+ 0	0.0	+ 02945	1454	758		
7.01710+	4 0.0	+ 0	0.0	+ 0	7.01720+	4 0.0	+ 0	0.0	+ 02945	1454	759		
									2945	1	0	760	
9.42410+	4 2.38986+	2			0		2		0	02945	1455	761	
0.0	+ 0 0.0	+ 0			0		0		6	02945	1455	762	
1.28000-	2 2.99000-	2	1.24000-	1	3.52000-	1	1.61000+	0	3.47000+	02945	1455	763	
0.0	+ 0 0.0	+ 0			0		0		1	42945	1455	764	
	4	2			0		0		0	02945	1455	765	
1.00000-	5 1.57000-	2	4.00000+	6	1.57000-	2	7.00000+	6	8.40000-	32945	1455	766	
1.50000+	7 8.40000-	3								2945	1455	767	
										2945	1	0	768
9.42410+	4 2.38986+	2			0		2		0	02945	1456	769	
0.0	+ 0 0.0	+ 0			0		0		1	42945	1456	770	
	4	2			0		0		0	02945	1456	771	
1.00000-	5 2.91660+	0	4.00000+	6	3.48860+	0	7.00000+	6	3.92490+	02945	1456	772	
1.50000+	7 5.06890+	0								2945	1456	773	
										2945	1	0	774
										2945	0	0	775
9.42410+	4 2.38986+	2			0		0		1	02945	2151	776	
9.42410+	4 1.00000+	0			0		1		2	02945	2151	777	
1.00000+	0 1.00000+	2			1		1		0	02945	2151	778	
2.50000+	0 1.00000+	0			0		0		1	02945	2151	779	
2.38986+	2 0.0	+ 0			0		0		552	922945	2151	780	
-2.09000-	1 3.00000+	0	1.32063-	1	6.30000-	5	3.50000-	2	9.70000-	22945	2151	781	
2.57000-	1 3.00000+	0	1.32051-	1	5.14300-	5	3.50000-	2	9.70000-	22945	2151	782	
4.28000+	0 3.00000+	0	9.56900-	2	6.90000-	4	5.00000-	2	4.50000-	22945	2151	783	
4.58000+	0 2.00000+	0	1.84420-	1	4.20000-	4	4.90000-	2	1.35000-	12945	2151	784	
6.11000+	0 2.00000+	0	1.33824+	0	3.24000-	3	3.50000-	2	1.30000+	02945	2151	785	
6.93000+	0 3.00000+	0	1.55720-	1	7.20000-	4	3.50000-	2	1.20000-	12945	2151	786	
8.62000+	0 3.00000+	0	1.41940-	1	9.40000-	4	4.10000-	2	1.00000-	12945	2151	787	
9.57000+	0 2.00000+	0	3.85528-	1	5.28000-	4	3.50000-	2	3.50000-	12945	2151	788	
1.00600+	1 2.00000+	0	6.36320-	1	1.32000-	3	3.50000-	2	6.00000-	12945	2151	789	
1.27900+	1 3.00000+	0	2.80677-	1	6.77140-	4	5.00000-	2	2.30000-	12945	2151	790	
1.34200+	1 2.00000+	0	1.23550-	1	3.55000-	3	6.00000-	2	6.00000-	22945	2151	791	

1.47500+	1	3.00000+	0	1.83400-	1	5.40000-	3	4.80000-	2	1.30000-	12945	2151	792
1.59700+	1	3.00000+	0	5.56420-	1	1.42000-	3	3.50000-	2	5.20000-	12945	2151	793
1.66700+	1	2.00000+	0	2.27280-	1	1.28000-	3	4.20000-	2	1.84000-	12945	2151	794
1.78500+	1	2.00000+	0	6.49800-	2	2.98000-	3	3.90000-	2	2.30000-	22945	2151	795
1.82200+	1	2.50000+	0	7.51500-	2	1.50000-	4	3.50000-	2	4.00000-	22945	2151	796
2.06900+	1	3.00000+	0	1.05309-	1	3.08570-	4	4.30000-	2	6.20000-	22945	2151	797
2.10500+	1	2.50000+	0	3.35010-	1	1.00000-	5	3.50000-	2	3.00000-	12945	2151	798
2.19100+	1	2.50000+	0	7.01700-	2	1.70000-	4	5.00000-	2	2.00000-	22945	2151	799
2.30000+	1	3.00000+	0	3.70986-	1	9.85710-	4	3.50000-	2	3.35000-	12945	2151	800
2.37000+	1	2.50000+	0	3.80390-	1	3.90000-	4	5.50000-	2	3.25000-	12945	2151	801
2.40400+	1	3.00000+	0	1.27183-	1	1.18286-	3	4.60000-	2	8.00000-	22945	2151	802
2.46100+	1	2.50000+	0	5.49150-	1	1.50000-	4	4.00000-	2	5.09000-	12945	2151	803
2.63900+	1	3.00000+	0	3.13857-	1	3.85714-	3	4.50000-	2	2.65000-	12945	2151	804
2.88900+	1	2.00000+	0	7.00760-	1	5.76000-	3	4.00000-	2	6.55000-	12945	2151	805
2.94200+	1	3.00000+	0	1.25471-	1	4.71430-	4	4.00000-	2	8.50000-	22945	2151	806
3.10300+	1	3.00000+	0	2.99203-	1	2.20286-	3	5.60000-	2	2.41000-	12945	2151	807
3.25000+	1	2.50000+	0	2.54100+	0	1.00000-	3	4.00000-	2	2.50000+	02945	2151	808
3.33000+	1	2.50000+	0	1.60170-	1	1.70000-	4	4.00000-	2	1.20000-	12945	2151	809
3.37700+	1	2.50000+	0	1.40300-	1	3.00000-	4	4.00000-	2	1.00000-	12945	2151	810
3.49000+	1	2.50000+	0	1.14207+	0	2.07000-	3	4.00000-	2	1.10000+	02945	2151	811
3.49800+	1	2.50000+	0	5.54100-	2	4.10000-	4	4.00000-	2	1.50000-	22945	2151	812
3.75000+	1	2.50000+	0	6.40150-	1	1.50000-	4	4.00000-	2	6.00000-	12945	2151	813
3.81700+	1	2.50000+	0	2.40500-	1	5.00000-	4	4.00000-	2	2.00000-	12945	2151	814
3.93500+	1	2.50000+	0	2.01490-	1	1.49000-	3	4.00000-	2	1.60000-	12945	2151	815
3.98900+	1	2.50000+	0	1.54590-	1	1.59000-	3	5.30000-	2	1.00000-	12945	2151	816
4.08700+	1	2.50000+	0	1.04212+	0	2.12000-	3	4.00000-	2	1.00000+	02945	2151	817
4.27700+	1	2.50000+	0	2.40280-	1	2.80000-	4	4.00000-	2	2.00000-	12945	2151	818
4.34500+	1	2.50000+	0	7.02500-	2	2.50000-	4	4.00000-	2	3.00000-	22945	2151	819
4.65700+	1	2.50000+	0	2.81500-	1	1.50000-	3	4.00000-	2	2.40000-	12945	2151	820
4.81100+	1	2.50000+	0	6.26200-	1	6.20000-	3	4.00000-	2	5.80000-	12945	2151	821
5.03500+	1	2.50000+	0	5.40690-	1	6.90000-	4	4.00000-	2	5.00000-	12945	2151	822
5.20700+	1	2.50000+	0	1.40040-	1	4.00000-	5	4.00000-	2	1.00000-	12945	2151	823
5.83700+	1	2.50000+	0	6.21750-	1	1.75000-	3	4.00000-	2	5.80000-	12945	2151	824
5.92800+	1	2.50000+	0	5.82200-	1	2.20000-	3	4.00000-	2	5.40000-	12945	2151	825
6.05300+	1	2.50000+	0	2.81300-	1	4.30000-	3	2.70000-	2	2.50000-	12945	2151	826
6.22500+	1	2.50000+	0	6.44620-	1	4.62000-	3	4.00000-	2	6.00000-	12945	2151	827
6.30000+	1	2.50000+	0	1.24200+	0	2.00000-	3	4.00000-	2	1.20000+	02945	2151	828
6.45200+	1	2.50000+	0	3.16250-	1	2.50000-	4	4.00000-	2	2.76000-	12945	2151	829
6.56800+	1	2.50000+	0	3.44260-	1	5.26000-	3	3.90000-	2	3.00000-	12945	2151	830
6.65500+	1	2.50000+	0	2.43040-	1	3.04000-	3	4.00000-	2	2.00000-	12945	2151	831
6.82200+	1	2.50000+	0	1.41180-	1	1.18000-	3	4.00000-	2	1.00000-	12945	2151	832
6.91800+	1	2.50000+	0	1.60700-	1	7.00000-	4	4.00000-	2	1.20000-	12945	2151	833
7.17700+	1	2.50000+	0	1.00070-	1	7.00000-	5	5.30000-	2	4.70000-	22945	2151	834
7.21700+	1	2.50000+	0	4.11530-	1	1.53000-	3	4.00000-	2	3.70000-	12945	2151	835
7.38000+	1	2.50000+	0	5.35000-	2	5.00000-	4	4.00000-	2	1.30000-	22945	2151	836
7.59400+	1	2.50000+	0	1.59760-	1	4.76000-	3	5.20000-	2	1.03000-	12945	2151	837
7.70600+	1	2.50000+	0	8.04500-	2	4.45000-	3	5.80000-	2	1.80000-	22945	2151	838
7.77300+	1	2.50000+	0	1.69870+	0	1.70000-	3	6.00000-	2	1.63700+	02945	2151	839
8.01400+	1	2.50000+	0	1.24870-	1	4.87000-	3	4.00000-	2	8.00000-	22945	2151	840
8.13600+	1	2.50000+	0	2.61900-	1	6.90000-	3	4.00000-	2	2.15000-	12945	2151	841
8.19800+	1	2.50000+	0	1.01790+	0	2.90000-	3	4.00000-	2	9.75000-	12945	2151	842
8.31200+	1	2.50000+	0	1.18020-	1	5.02000-	3	4.00000-	2	7.30000-	22945	2151	843
8.53500+	1	2.50000+	0	2.00500-	1	3.50000-	3	5.20000-	2	1.45000-	12945	2151	844
8.56700+	1	2.50000+	0	2.72800-	1	2.80000-	3	4.00000-	2	2.30000-	12945	2151	845
8.60000+	1	2.50000+	0	3.50720-	1	7.20000-	4	4.00000-	2	3.10000-	12945	2151	846
8.69300+	1	2.50000+	0	1.30400-	1	7.40000-	3	4.30000-	2	8.00000-	22945	2151	847
8.78000+	1	2.50000+	0	3.22350-	1	2.35000-	3	4.00000-	2	2.80000-	12945	2151	848
8.91200+	1	2.50000+	0	7.92230-	1	2.23000-	3	4.00000-	2	7.50000-	12945	2151	849
9.06000+	1	2.50000+	0	2.16700-	1	1.70000-	3	4.00000-	2	1.75000-	12945	2151	850
9.14000+	1	2.50000+	0	6.01000-	2	1.00000-	4	3.90000-	2	2.10000-	22945	2151	851
9.18800+	1	2.50000+	0	6.01200-	2	1.20000-	4	3.50000-	2	2.50000-	22945	2151	852
9.37700+	1	2.50000+	0	2.96400-	1	4.00000-	4	4.60000-	2	2.50000-	12945	2151	853
9.52400+	1	2.50000+	0	6.83600-	1	6.00000-	4	4.00000-	2	6.43000-	12945	2151	854
9.61800+	1	2.50000+	0	1.04150+	0	1.50000-	3	4.00000-	2	1.00000+	02945	2151	855
9.75300+	1	2.50000+	0	4.99850-	1	8.50000-	4	4.00000-	2	4.59000-	12945	2151	856
9.82800+	1	2.50000+	0	1.93280-	1	7.28000-	3	4.00000-	2	1.46000-	12945	2151	857
9.97400+	1	2.50000+	0	3.50160-	1	2.16000-	3	1.80000-	2	3.30000-	12945	2151	858
1.00500+	2	2.50000+	0	5.56000-	2	1.30000-	3	4.00000-	2	1.43000-	22945	2151	859
1.01420+	2	2.50000+	0	1.47610-	1	1.61000-	3	7.20000-	2	7.40000-	22945	2151	860
1.02330+	2	2.50000+	0	5.87000-	2	1.40000-	3	4.00000-	2	1.73000-	22945	2151	861
1.03520+	2	2.50000+	0	4.87300-	2	1.53000-	3	4.00000-	2	7.20000-	32945	2151	862
1.07540+	2	2.50000+	0	4.12000-	2	5.00000-	4	4.00000-	2	7.00000-	42945	2151	863

1.07850+	2	2.50000+	0	9.22000-	2	1.20000-	3	4.00000-	2	5.10000-	22945	2151	864
1.09050+	2	2.50000+	0	4.91920-	1	1.92000-	3	4.00000-	2	4.50000-	12945	2151	865
1.10200+	2	2.50000+	0	7.91450-	1	4.50000-	4	4.00000-	2	7.51000-	12945	2151	866
1.13130+	2	2.50000+	0	8.67500-	2	7.50000-	4	4.00000-	2	4.60000-	22945	2151	867
1.15400+	2	2.50000+	0	1.58170+	0	1.70000-	3	4.00000-	2	1.54000+	02945	2151	868
1.17230+	2	2.50000+	0	3.57480-	1	3.48000-	3	4.00000-	2	3.14000-	12945	2151	869
1.20330+	2	2.50000+	0	5.45800-	1	8.00000-	4	4.00000-	2	5.05000-	12945	2151	870
1.22110+	2	2.50000+	0	4.65950-	1	6.95000-	3	4.00000-	2	4.19000-	12945	2151	871
1.23240+	2	2.50000+	0	1.01350-	1	2.35000-	3	4.00000-	2	5.90000-	22945	2151	872
1.00000+	2	3.00000+	4		2		2		0		02945	2151	873
2.50000+	0	9.80000-	1		0		0		2		02945	2151	874
2.38986+	2	0.0	+ 0		0		0		2		02945	2151	875
2.00000+	0	0.0	+ 0		2		0		138		222945	2151	876
0.0	+ 0	0.0	+ 0	0.0	+ 0	1.00000+	0	0.0	+ 0	2.00000+	02945	2151	877
1.00000+	2	2.03960+	0	0.0	+ 0	1.55490-	4	4.00000-	2	1.49940+	02945	2151	878
1.50000+	2	2.03940+	0	0.0	+ 0	2.01480-	4	4.00000-	2	1.04690+	02945	2151	879
2.50000+	2	2.03900+	0	0.0	+ 0	2.76970-	4	4.00000-	2	1.01420+	02945	2151	880
3.50000+	2	2.03860+	0	0.0	+ 0	2.71470-	4	4.00000-	2	7.23620-	12945	2151	881
4.50000+	2	2.03820+	0	0.0	+ 0	2.75850-	4	4.00000-	2	6.15130-	12945	2151	882
5.50000+	2	2.03780+	0	0.0	+ 0	2.60350-	4	4.00000-	2	7.00170-	12945	2151	883
6.50000+	2	2.03740+	0	0.0	+ 0	2.03520-	4	4.00000-	2	6.02660-	12945	2151	884
7.50000+	2	2.03710+	0	0.0	+ 0	1.91840-	4	4.00000-	2	1.00760+	02945	2151	885
8.50000+	2	2.03670+	0	0.0	+ 0	1.87520-	4	4.00000-	2	9.04450-	12945	2151	886
9.50000+	2	2.03630+	0	0.0	+ 0	2.26250-	4	4.00000-	2	9.74370-	12945	2151	887
1.50000+	3	2.03410+	0	0.0	+ 0	2.39010-	4	4.00000-	2	7.58700-	12945	2151	888
2.50000+	3	2.03020+	0	0.0	+ 0	2.18900-	4	4.00000-	2	9.58150-	12945	2151	889
3.50000+	3	2.02630+	0	0.0	+ 0	2.46540-	4	4.00000-	2	9.88440-	12945	2151	890
4.50000+	3	2.02240+	0	0.0	+ 0	2.45310-	4	4.00000-	2	9.52570-	12945	2151	891
5.50000+	3	2.01850+	0	0.0	+ 0	2.29710-	4	4.00000-	2	8.75750-	12945	2151	892
6.50000+	3	2.01460+	0	0.0	+ 0	2.35200-	4	4.00000-	2	1.15540+	02945	2151	893
7.50000+	3	2.01070+	0	0.0	+ 0	2.37550-	4	4.00000-	2	7.27670-	12945	2151	894
8.50000+	3	2.00690+	0	0.0	+ 0	2.43590-	4	4.00000-	2	1.02640+	02945	2151	895
9.50000+	3	2.00300+	0	0.0	+ 0	2.16490-	4	4.00000-	2	1.31890+	02945	2151	896
1.50000+	4	1.98190+	0	0.0	+ 0	2.31810-	4	4.00000-	2	9.32810-	12945	2151	897
2.50000+	4	1.94410+	0	0.0	+ 0	2.19620-	4	4.00000-	2	1.13670+	02945	2151	898
3.00000+	4	1.92550+	0	0.0	+ 0	2.10770-	4	4.00000-	2	1.38320+	02945	2151	899
3.00000+	0	0.0	+ 0		2		0		138		222945	2151	900
0.0	+ 0	0.0	+ 0	0.0	+ 0	1.00000+	0	0.0	+ 0	1.00000+	02945	2151	901
1.00000+	2	1.45690+	0	0.0	+ 0	1.11060-	4	4.00000-	2	6.45110-	12945	2151	902
1.50000+	2	1.45670+	0	0.0	+ 0	1.43910-	4	4.00000-	2	4.50400-	12945	2151	903
2.50000+	2	1.45640+	0	0.0	+ 0	1.97830-	4	4.00000-	2	4.36340-	12945	2151	904
3.50000+	2	1.45620+	0	0.0	+ 0	1.93910-	4	4.00000-	2	3.11330-	12945	2151	905
4.50000+	2	1.45590+	0	0.0	+ 0	1.97030-	4	4.00000-	2	2.64650-	12945	2151	906
5.50000+	2	1.45560+	0	0.0	+ 0	1.85960-	4	4.00000-	2	3.01240-	12945	2151	907
6.50000+	2	1.45530+	0	0.0	+ 0	1.45370-	4	4.00000-	2	2.59280-	12945	2151	908
7.50000+	2	1.45500+	0	0.0	+ 0	1.37030-	4	4.00000-	2	4.33490-	12945	2151	909
8.50000+	2	1.45480+	0	0.0	+ 0	1.33940-	4	4.00000-	2	3.89120-	12945	2151	910
9.50000+	2	1.45450+	0	0.0	+ 0	1.61610-	4	4.00000-	2	4.19210-	12945	2151	911
1.50000+	3	1.45290+	0	0.0	+ 0	1.70720-	4	4.00000-	2	3.26420-	12945	2151	912
2.50000+	3	1.45010+	0	0.0	+ 0	1.56360-	4	4.00000-	2	4.12230-	12945	2151	913
3.50000+	3	1.44730+	0	0.0	+ 0	1.76100-	4	4.00000-	2	4.25260-	12945	2151	914
4.50000+	3	1.44460+	0	0.0	+ 0	1.75220-	4	4.00000-	2	4.09830-	12945	2151	915
5.50000+	3	1.44180+	0	0.0	+ 0	1.64080-	4	4.00000-	2	3.76780-	12945	2151	916
6.50000+	3	1.43990+	0	0.0	+ 0	1.68000-	4	4.00000-	2	4.97090-	12945	2151	917
7.50000+	3	1.43620+	0	0.0	+ 0	1.69680-	4	4.00000-	2	3.13070-	12945	2151	918
8.50000+	3	1.43350+	0	0.0	+ 0	1.74000-	4	4.00000-	2	4.41590-	12945	2151	919
9.50000+	3	1.43070+	0	0.0	+ 0	1.54630-	4	4.00000-	2	5.67420-	12945	2151	920
1.50000+	4	1.41560+	0	0.0	+ 0	1.65580-	4	4.00000-	2	4.01320-	12945	2151	921
2.50000+	4	1.38860+	0	0.0	+ 0	1.56870-	4	4.00000-	2	4.89060-	12945	2151	922
3.00000+	4	1.37540+	0	0.0	+ 0	1.50550-	4	4.00000-	2	5.95120-	12945	2151	923
2.38986+	2	0.0	+ 0		1		0		4		02945	2151	924
1.00000+	0	0.0	+ 0		2		0		138		222945	2151	925
0.0	+ 0	0.0	+ 0	0.0	+ 0	1.00000+	0	0.0	+ 0	2.00000+	02945	2151	926
1.00000+	2	3.39930+	0	0.0	+ 0	3.81900-	4	4.00000-	2	1.67380+	02945	2151	927
1.50000+	2	3.39900+	0	0.0	+ 0	4.94860-	4	4.00000-	2	1.16860+	02945	2151	928
2.50000+	2	3.39840+	0	0.0	+ 0	6.80270-	4	4.00000-	2	1.13210+	02945	2151	929
3.50000+	2	3.39770+	0	0.0	+ 0	6.66760-	4	4.00000-	2	8.07760-	12945	2151	930
4.50000+	2	3.39710+	0	0.0	+ 0	6.77520-	4	4.00000-	2	6.86660-	12945	2151	931
5.50000+	2	3.39640+	0	0.0	+ 0	6.39450-	4	4.00000-	2	7.81580-	12945	2151	932
6.50000+	2	3.39570+	0	0.0	+ 0	4.99860-	4	4.00000-	2	6.72740-	12945	2151	933
7.50000+	2	3.39510+	0	0.0	+ 0	4.71180-	4	4.00000-	2	1.12470+	02945	2151	934
8.50000+	2	3.39440+	0	0.0	+ 0	4.60570-	4	4.00000-	2	1.00960+	02945	2151	935

9.50000+ 2 3.39380+ 0 0.0	+ 0 5.55700- 4 4.00000- 2 1.08770+ 02945 2151 936
1.50000+ 3 3.39020+ 0 0.0	+ 0 5.87040- 4 4.00000- 2 8.46920- 12945 2151 937
2.50000+ 3 3.38370+ 0 0.0	+ 0 5.37650- 4 4.00000- 2 1.06960+ 02945 2151 938
3.50000+ 3 3.37710+ 0 0.0	+ 0 6.05550- 4 4.00000- 2 1.10340+ 02945 2151 939
4.50000+ 3 3.37060+ 0 0.0	+ 0 6.02520- 4 4.00000- 2 1.06330+ 02945 2151 940
5.50000+ 3 3.36410+ 0 0.0	+ 0 5.64200- 4 4.00000- 2 9.77580- 12945 2151 941
6.50000+ 3 3.35770+ 0 0.0	+ 0 5.77680- 4 4.00000- 2 1.28980+ 02945 2151 942
7.50000+ 3 3.35120+ 0 0.0	+ 0 5.83470- 4 4.00000- 2 8.12280- 12945 2151 943
8.50000+ 3 3.34480+ 0 0.0	+ 0 5.98300- 4 4.00000- 2 1.14570+ 02945 2151 944
9.50000+ 3 3.33830+ 0 0.0	+ 0 5.31720- 4 4.00000- 2 1.47220+ 02945 2151 945
1.50000+ 4 3.30310+ 0 0.0	+ 0 5.69360- 4 4.00000- 2 1.04130+ 02945 2151 946
2.50000+ 4 3.24020+ 0 0.0	+ 0 5.39410- 4 4.00000- 2 1.26890+ 02945 2151 947
3.00000+ 4 3.20920+ 0 0.0	+ 0 5.17690- 4 4.00000- 2 1.54410+ 02945 2151 948
2.00000+ 0 0.0 + 0	2 0 138 222945 2151 949
0.0 + 0 0.0 + 0 0.0	+ 0 2.00000+ 0 0.0 + 0 1.00000+ 02945 2151 950
1.00000+ 2 2.03960+ 0 0.0	+ 0 2.29140- 4 4.00000- 2 4.70760- 12945 2151 951
1.50000+ 2 2.03940+ 0 0.0	+ 0 2.96920- 4 4.00000- 2 3.28670- 12945 2151 952
2.50000+ 2 2.03900+ 0 0.0	+ 0 4.08160- 4 4.00000- 2 3.18410- 12945 2151 953
3.50000+ 2 2.03860+ 0 0.0	+ 0 4.00060- 4 4.00000- 2 2.27180- 12945 2151 954
4.50000+ 2 2.03820+ 0 0.0	+ 0 4.06510- 4 4.00000- 2 1.93120- 12945 2151 955
5.50000+ 2 2.03780+ 0 0.0	+ 0 3.83670- 4 4.00000- 2 2.19820- 12945 2151 956
6.50000+ 2 2.03740+ 0 0.0	+ 0 2.99920- 4 4.00000- 2 1.89210- 12945 2151 957
7.50000+ 2 2.03710+ 0 0.0	+ 0 2.82710- 4 4.00000- 2 3.16330- 12945 2151 958
8.50000+ 2 2.03670+ 0 0.0	+ 0 2.76340- 4 4.00000- 2 2.83950- 12945 2151 959
9.50000+ 2 2.03630+ 0 0.0	+ 0 3.33420- 4 4.00000- 2 3.05910- 12945 2151 960
1.50000+ 3 2.03410+ 0 0.0	+ 0 3.52220- 4 4.00000- 2 2.38200- 12945 2151 961
2.50000+ 3 2.03020+ 0 0.0	+ 0 3.22590- 4 4.00000- 2 3.00820- 12945 2151 962
3.50000+ 3 2.02630+ 0 0.0	+ 0 3.63330- 4 4.00000- 2 3.10320- 12945 2151 963
4.50000+ 3 2.02240+ 0 0.0	+ 0 3.61510- 4 4.00000- 2 2.99060- 12945 2151 964
5.50000+ 3 2.01850+ 0 0.0	+ 0 3.38520- 4 4.00000- 2 2.74940- 12945 2151 965
6.50000+ 3 2.01460+ 0 0.0	+ 0 3.46610- 4 4.00000- 2 3.62740- 12945 2151 966
7.50000+ 3 2.01070+ 0 0.0	+ 0 3.50080- 4 4.00000- 2 2.28450- 12945 2151 967
8.50000+ 3 2.00690+ 0 0.0	+ 0 3.58980- 4 4.00000- 2 3.22240- 12945 2151 968
9.50000+ 3 2.00300+ 0 0.0	+ 0 3.19030- 4 4.00000- 2 4.14060- 12945 2151 969
1.50000+ 4 1.98190+ 0 0.0	+ 0 3.41620- 4 4.00000- 2 2.92860- 12945 2151 970
2.50000+ 4 1.94410+ 0 0.0	+ 0 3.23650- 4 4.00000- 2 3.56880- 12945 2151 971
3.00000+ 4 1.92550+ 0 0.0	+ 0 3.10610- 4 4.00000- 2 4.34280- 12945 2151 972
3.00000+ 0 0.0 + 0	2 0 138 222945 2151 973
0.0 + 0 0.0 + 0 0.0	+ 0 2.00000+ 0 0.0 + 0 2.00000+ 02945 2151 974
1.00000+ 2 1.45690+ 0 0.0	+ 0 1.63670- 4 4.00000- 2 1.04610+ 02945 2151 975
1.50000+ 2 1.45670+ 0 0.0	+ 0 2.12080- 4 4.00000- 2 7.30380- 12945 2151 976
2.50000+ 2 1.45640+ 0 0.0	+ 0 2.91550- 4 4.00000- 2 7.07570- 12945 2151 977
3.50000+ 2 1.45620+ 0 0.0	+ 0 2.85760- 4 4.00000- 2 5.04850- 12945 2151 978
4.50000+ 2 1.45590+ 0 0.0	+ 0 2.90370- 4 4.00000- 2 4.29160- 12945 2151 979
5.50000+ 2 1.45560+ 0 0.0	+ 0 2.74050- 4 4.00000- 2 4.88490- 12945 2151 980
6.50000+ 2 1.45530+ 0 0.0	+ 0 2.14230- 4 4.00000- 2 4.20460- 12945 2151 981
7.50000+ 2 1.45500+ 0 0.0	+ 0 2.01940- 4 4.00000- 2 7.02960- 12945 2151 982
8.50000+ 2 1.45480+ 0 0.0	+ 0 1.97390- 4 4.00000- 2 6.31010- 12945 2151 983
9.50000+ 2 1.45450+ 0 0.0	+ 0 2.38160- 4 4.00000- 2 6.79790- 12945 2151 984
1.50000+ 3 1.45290+ 0 0.0	+ 0 2.51590- 4 4.00000- 2 5.29320- 12945 2151 985
2.50000+ 3 1.45010+ 0 0.0	+ 0 2.30420- 4 4.00000- 2 6.68480- 12945 2151 986
3.50000+ 3 1.44730+ 0 0.0	+ 0 2.59520- 4 4.00000- 2 6.89610- 12945 2151 987
4.50000+ 3 1.44460+ 0 0.0	+ 0 2.58220- 4 4.00000- 2 6.64590- 12945 2151 988
5.50000+ 3 1.44180+ 0 0.0	+ 0 2.41800- 4 4.00000- 2 6.10990- 12945 2151 989
6.50000+ 3 1.43900+ 0 0.0	+ 0 2.47580- 4 4.00000- 2 8.06100- 12945 2151 990
7.50000+ 3 1.43620+ 0 0.0	+ 0 2.50060- 4 4.00000- 2 5.07680- 12945 2151 991
8.50000+ 3 1.43350+ 0 0.0	+ 0 2.56410- 4 4.00000- 2 7.16090- 12945 2151 992
9.50000+ 3 1.43070+ 0 0.0	+ 0 2.27880- 4 4.00000- 2 9.20140- 12945 2151 993
1.50000+ 4 1.41560+ 0 0.0	+ 0 2.44010- 4 4.00000- 2 6.50800- 12945 2151 994
2.50000+ 4 1.38860+ 0 0.0	+ 0 2.31180- 4 4.00000- 2 7.93080- 12945 2151 995
3.00000+ 4 1.37540+ 0 0.0	+ 0 2.21870- 4 4.00000- 2 9.65060- 12945 2151 996
4.00000+ 0 0.0 + 0	2 0 138 222945 2151 997
0.0 + 0 0.0 + 0 0.0	+ 0 1.00000+ 0 0.0 + 0 1.00000+ 02945 2151 998
1.00000+ 2 1.13310+ 0 0.0	+ 0 1.27300- 4 4.00000- 2 4.01010- 12945 2151 999
1.50000+ 2 1.13300+ 0 0.0	+ 0 1.64950- 4 4.00000- 2 2.79980- 12945 2151 1000
2.50000+ 2 1.13280+ 0 0.0	+ 0 2.26760- 4 4.00000- 2 2.71240- 12945 2151 1001
3.50000+ 2 1.13260+ 0 0.0	+ 0 2.22250- 4 4.00000- 2 1.93530- 12945 2151 1002
4.50000+ 2 1.13240+ 0 0.0	+ 0 2.25840- 4 4.00000- 2 1.64510- 12945 2151 1003
5.50000+ 2 1.13210+ 0 0.0	+ 0 2.13150- 4 4.00000- 2 1.87250- 12945 2151 1004
6.50000+ 2 1.13190+ 0 0.0	+ 0 1.66620- 4 4.00000- 2 1.61180- 12945 2151 1005
7.50000+ 2 1.13170+ 0 0.0	+ 0 1.57060- 4 4.00000- 2 2.69470- 12945 2151 1006
8.50000+ 2 1.13150+ 0 0.0	+ 0 1.53520- 4 4.00000- 2 2.41890- 12945 2151 1007

9.50000+	2	1.13130+	0	0.0	+	0	1.85230-	4	4.00000-	2	2.60590-	12945	2151	1008
1.50000+	3	1.13010+	0	0.0	+	0	1.95680-	4	4.00000-	2	2.02910-	12945	2151	1009
2.50000+	3	1.12790+	0	0.0	+	0	1.79220-	4	4.00000-	2	2.56250-	12945	2151	1010
3.50000+	3	1.12570+	0	0.0	+	0	2.01850-	4	4.00000-	2	2.64350-	12945	2151	1011
4.50000+	3	1.12350+	0	0.0	+	0	2.00840-	4	4.00000-	2	2.54760-	12945	2151	1012
5.50000+	3	1.12140+	0	0.0	+	0	1.88070-	4	4.00000-	2	2.34210-	12945	2151	1013
6.50000+	3	1.11920+	0	0.0	+	0	1.92560-	4	4.00000-	2	3.09000-	12945	2151	1014
7.50000+	3	1.11710+	0	0.0	+	0	1.94490-	4	4.00000-	2	1.94610-	12945	2151	1015
8.50000+	3	1.11490+	0	0.0	+	0	1.99430-	4	4.00000-	2	2.74500-	12945	2151	1016
9.50000+	3	1.11280+	0	0.0	+	0	1.77240-	4	4.00000-	2	3.52720-	12945	2151	1017
1.50000+	4	1.10100+	0	0.0	+	0	1.89790-	4	4.00000-	2	2.49470-	12945	2151	1018
2.50000+	4	1.08010+	0	0.0	+	0	1.79800-	4	4.00000-	2	3.04010-	12945	2151	1019
3.00000+	4	1.06970+	0	0.0	+	0	1.72560-	4	4.00000-	2	3.69940-	12945	2151	1020
											2945	2	0	1021
											2945	0	0	1022
9.42410+	4	2.38986+	2	0		99			0		02945	3	1	1023
0.0	+	0.0	+	0		0			3		4532945	3	1	1024
	194		5	357		2		453			52945	3	1	1025
1.00000-	5	7.32783+	4	1.19607-	5	6.70264+	4	1.39214-	5	6.21456+	42945	3	1	1026
1.78427-	5	5.49201+	4	2.17641-	5	4.97464+	4	2.56854-	5	4.58070+	42945	3	1	1027
3.35281-	5	4.01147+	4	4.13709-	5	3.61283+	4	5.70563-	5	3.07845+	42945	3	1	1028
7.27417-	5	2.72782+	4	8.84271-	5	2.47512+	4	1.00000-	4	2.32812+	42945	3	1	1029
1.04113-	4	2.28118+	4	1.35483-	4	1.99697+	4	1.66854-	4	1.79753+	42945	3	1	1030
1.98225-	4	1.64770+	4	2.60967-	4	1.43400+	4	3.23708-	4	1.28614+	42945	3	1	1031
3.86450-	4	1.17606+	4	5.11934-	4	1.02038+	4	6.37417-	4	9.13453+	32945	3	1	1032
7.62900-	4	8.34226+	3	1.00000-	3	7.27702+	3	1.01387-	3	7.22652+	32945	3	1	1033
1.26483-	3	6.46223+	3	1.51580-	3	5.89739+	3	2.00000-	3	5.12679+	32945	3	1	1034
2.01773-	3	5.10392+	3	2.51967-	3	4.56094+	3	3.02160-	3	4.16034+	32945	3	1	1035
4.02547-	3	3.59847+	3	5.00000-	3	3.22498+	3	5.02934-	3	3.21564+	32945	3	1	1036
6.03320-	3	2.93815+	3	8.04094-	3	2.54830+	3	1.00000-	2	2.28751+	32945	3	1	1037
1.00487-	2	2.28152+	3	1.20564-	2	2.06797+	3	1.40000-	2	1.90785+	32945	3	1	1038
1.60719-	2	1.77586+	3	2.00000-	2	1.58554+	3	2.00873-	2	1.58164+	32945	3	1	1039
2.41028-	2	1.42679+	3	2.53000-	2	1.38823+	3	3.00000-	2	1.28207+	32945	3	1	1040
3.21337-	2	1.23793+	3	4.00000-	2	1.10721+	3	4.01647-	2	1.10499+	32945	3	1	1041
4.81956-	2	1.01096+	3	5.00000-	2	9.93000+	2	6.00000-	2	9.23283+	22945	3	1	1042
6.42575-	2	9.00004+	2	7.00000-	2	8.71780+	2	8.00000-	2	8.35365+	22945	3	1	1043
8.03194-	2	8.34933+	2	9.00000-	2	8.22694+	2	9.63812-	2	8.17106+	22945	3	1	1044
1.00000-	1	8.14139+	2	1.10000-	1	8.14168+	2	1.12443-	1	8.17975+	22945	3	1	1045
1.20000-	1	8.29346+	2	1.28505-	1	8.49033+	2	1.30000-	1	8.52405+	22945	3	1	1046
1.40000-	1	8.89644+	2	1.44567-	1	9.12708+	2	1.50000-	1	9.40004+	22945	3	1	1047
1.60000-	1	1.00862+	3	1.60629-	1	1.01424+	3	1.70000-	1	1.09908+	32945	3	1	1048
1.76218-	1	1.17279+	3	1.76691-	1	1.17727+	3	1.80000-	1	1.20885+	32945	3	1	1049
1.84832-	1	1.27365+	3	1.90000-	1	1.35468+	3	1.92752-	1	1.39008+	32945	3	1	1050
2.00000-	1	1.48555+	3	2.05000-	1	1.57974+	3	2.05607-	1	1.59146+	32945	3	1	1051
2.08814-	1	1.65604+	3	2.10000-	1	1.68035+	3	2.15000-	1	1.78581+	32945	3	1	1052
2.15741-	1	1.80213+	3	2.20000-	1	1.87214+	3	2.24876-	1	1.96474+	32945	3	1	1053
2.25000-	1	1.96713+	3	2.25875-	1	1.98433+	3	2.30000-	1	2.09154+	32945	3	1	1054
2.35000-	1	2.19408+	3	2.36516-	1	2.22612+	3	2.40000-	1	2.28107+	32945	3	1	1055
2.40938-	1	2.29746+	3	2.42000-	1	2.31612+	3	2.42597-	1	2.32464+	32945	3	1	1056
2.47000-	1	2.37856+	3	2.47157-	1	2.38036+	3	2.48969-	1	2.39100+	32945	3	1	1057
2.50000-	1	2.39707+	3	2.52224-	1	2.41850+	3	2.52500-	1	2.41809+	32945	3	1	1058
2.55000-	1	2.40826+	3	2.57000-	1	2.40261+	3	2.57291-	1	2.40180+	32945	3	1	1059
2.57500-	1	2.39988+	3	2.60000-	1	2.37577+	3	2.63000-	1	2.34494+	32945	3	1	1060
2.64857-	1	2.32413+	3	2.65000-	1	2.32254+	3	2.65398-	1	2.31741+	32945	3	1	1061
2.67000-	1	2.28700+	3	2.70000-	1	2.22878+	3	2.72715-	1	2.17322+	32945	3	1	1062
2.73500-	1	2.15750+	3	2.73506-	1	2.15737+	3	2.75000-	1	2.11869+	32945	3	1	1063
2.78000-	1	2.04130+	3	2.78066-	1	2.03958+	3	2.80000-	1	1.98844+	32945	3	1	1064
2.82120-	1	1.93182+	3	2.85000-	1	1.84782+	3	2.86680-	1	1.80198+	32945	3	1	1065
2.88430-	1	1.74430+	3	2.90000-	1	1.69444+	3	2.94482-	1	1.55433+	32945	3	1	1066
2.95000-	1	1.53830+	3	2.97641-	1	1.46223+	3	3.00000-	1	1.41010+	32945	3	1	1067
3.02471-	1	1.34208+	3	3.04145-	1	1.30642+	3	3.05000-	1	1.28864+	32945	3	1	1068
3.05258-	1	1.28357+	3	3.10000-	1	1.14915+	3	3.13990-	1	1.07852+	32945	3	1	1069
3.16220-	1	1.03738+	3	3.19859-	1	9.59642+	2	3.20000-	1	9.56773+	22945	3	1	1070
3.23280-	1	9.00068+	2	3.26067-	1	8.48704+	2	3.30000-	1	7.88779+	22945	3	1	1071
3.35574-	1	7.14897+	2	3.36560-	1	7.02696+	2	3.40000-	1	6.56967+	22945	3	1	1072
3.45782-	1	5.96765+	2	3.50000-	1	5.50686+	2	3.51289-	1	5.40181+	22945	3	1	1073
3.60000-	1	4.75214+	2	3.67004-	1	4.20598+	2	3.70000-	1	3.99534+	22945	3	1	1074
3.80000-	1	3.46729+	2	3.82719-	1	3.33529+	2	3.90000-	1	3.01101+	22945	3	1	1075
3.98434-	1	2.71384+	2	4.00000-	1	2.66277+	2	4.10000-	1	2.36405+	22945	3	1	1076
4.14148-	1	2.24309+	2	4.20000-	1	2.08542+	2	4.25000-	1	1.98697+	22945	3	1	1077
4.29863-	1	1.89810+	2	4.30000-	1	1.89567+	2	4.40000-	1	1.72238+	22945	3	1	1078
4.45578-	1	1.62854+	2	4.50000-	1	1.55884+	2	4.61293-	1	1.43770+	22945	3	1	1079

4.75000-	1	1.30774+	2	4.77008-	1	1.28895+	2	4.92723-	1	1.15444+	22945	3	1	1080
5.00000-	1	1.09897+	2	5.08438-	1	1.05501+	2	5.33000-	1	9.42178+	12945	3	1	1081
5.39867-	1	9.17022+	1	5.50000-	1	8.82143+	1	5.67000-	1	8.32859+	12945	3	1	1082
5.71297-	1	8.22883+	1	6.00000-	1	7.62255+	1	6.02727-	1	7.57739+	12945	3	1	1083
6.33000-	1	7.11721+	1	6.34156-	1	7.10143+	1	6.50000-	1	6.89425+	12945	3	1	1084
6.65586-	1	6.71288+	1	6.67000-	1	6.69706+	1	6.97016-	1	6.35767+	12945	3	1	1085
7.00000-	1	6.32622+	1	7.28445-	1	6.09005+	1	7.33000-	1	6.05450+	12945	3	1	1086
7.50000-	1	5.93335+	1	7.59875-	1	5.86635+	1	7.67000-	1	5.81949+	12945	3	1	1087
8.00000-	1	5.63781+	1	8.22734-	1	5.52363+	1	8.50000-	1	5.39652+	12945	3	1	1088
8.85594-	1	5.24173+	1	9.00000-	1	5.18316+	1	9.48453-	1	4.99274+	12945	3	1	1089
9.50000-	1	4.98700+	1	1.00000+	0	4.85394+	1	1.00000+	0	0.0	+ 02945	3	1	1090
4.60000+	0	0.0	+ 0	4.63000+	0	-3.90000+	1	4.68000+	0	-1.11000+	22945	3	1	1091
4.70000+	0	-1.28000+	2	4.72000+	0	-1.31800+	2	4.75000+	0	-1.28500+	22945	3	1	1092
4.78000+	0	-1.18200+	2	4.80000+	0	-1.12800+	2	4.90000+	0	-9.15000+	12945	3	1	1093
4.95000+	0	-8.37000+	1	5.10000+	0	-6.15000+	1	5.30000+	0	-3.50000+	12945	3	1	1094
5.50000+	0	0.0	+ 0	7.00000+	0	0.0	+ 0	7.15000+	0	3.50000+	12945	3	1	1095
7.80000+	0	4.71000+	1	8.42000+	0	4.20000+	1	8.45000+	0	3.80000+	12945	3	1	1096
8.48000+	0	1.90000+	1	8.55000+	0	0.0	+ 0	8.80000+	0	0.0	+ 02945	3	1	1097
9.00000+	0	5.00000+	0	9.05000+	0	1.57000+	1	9.10000+	0	2.80000+	12945	3	1	1098
9.15000+	0	4.85000+	1	9.20122+	0	5.50756+	1	9.25000+	0	5.48000+	12945	3	1	1099
9.30000+	0	5.40000+	1	9.40000+	0	3.90000+	1	9.45000+	0	1.90000+	12945	3	1	1100
9.50000+	0	1.10000+	1	9.55000+	0	0.0	+ 0	9.62000+	0	0.0	+ 02945	3	1	1101
9.64000+	0	-2.00000+	1	9.66000+	0	-4.10000+	1	9.70000+	0	-6.70000+	12945	3	1	1102
9.74000+	0	-5.60000+	1	9.77000+	0	-3.30000+	1	9.81000+	0	-1.30000+	12945	3	1	1103
9.84000+	0	0.0	+ 0	1.00000+	1	0.0	+ 0	1.25000+	1	1.40000+	12945	3	1	1104
1.35600+	1	1.40000+	1	1.35800+	1	0.0	+ 0	1.36000+	1	-4.00000+	02945	3	1	1105
1.44000+	1	-4.00000+	0	1.45000+	1	1.40000+	1	1.69100+	1	1.40000+	12945	3	1	1106
1.69500+	1	8.53034+	0	1.70000+	1	6.03060+	0	1.71000+	1	4.47670+	02945	3	1	1107
1.72000+	1	3.59840+	0	1.73000+	1	4.47670+	0	1.74000+	1	6.20000+	02945	3	1	1108
1.74700+	1	8.59790+	0	1.75000+	1	9.84455+	0	1.76000+	1	1.37200+	12945	3	1	1109
2.00000+	1	7.00000+	0	2.21000+	1	4.55000+	0	2.23100+	1	-2.24563+	02945	3	1	1110
2.24900+	1	-7.38760+	0	2.26000+	1	-9.94803+	0	2.27100+	1	-7.57667+	02945	3	1	1111
2.28000+	1	-2.81730+	0	2.28800+	1	3.64000+	0	2.60000+	1	-5.58623-	22945	3	1	1112
2.65000+	1	-6.48146-	2	2.68000+	1	-1.07000+	1	2.71900+	1	-1.45903+	12945	3	1	1113
2.75900+	1	-1.45228+	1	2.79800+	1	-7.80000+	0	2.84900+	1	0.0	+ 02945	3	1	1114
3.53000+	1	0.0	+ 0	3.64000+	1	-3.10000+	0	3.64900+	1	-5.06430+	02945	3	1	1115
3.66000+	1	-6.61819+	0	3.67900+	1	-8.78013+	0	3.69900+	1	-9.11793+	02945	3	1	1116
3.72000+	1	-8.78013+	0	3.73900+	1	-6.61819+	0	3.75400+	1	-3.20000+	02945	3	1	1117
3.76000+	1	-2.10000+	0	3.76600+	1	-8.00000-	1	3.77200+	1	0.0	+ 02945	3	1	1118
4.00000+	1	0.0	+ 0	4.25000+	1	3.30000+	0	4.35000+	1	3.30000+	02945	3	1	1119
4.38000+	1	1.94960-	1	4.41400+	1	-4.80650-	1	4.49900+	1	-4.90000-	12945	3	1	1120
4.57500+	1	-5.60000-	1	4.61200+	1	1.00000+	0	4.62000+	1	3.30000+	02945	3	1	1121
5.00000+	1	3.30000+	0	5.25000+	1	1.00000+	0	5.75000+	1	1.00000+	02945	3	1	1122
5.95900+	1	3.50800+	0	5.96900+	1	-3.07200+	0	5.98900+	1	-1.77445+	12945	3	1	1123
6.00000+	1	-1.97800+	1	6.00100+	1	-1.99571+	1	6.01800+	1	-1.72525+	12945	3	1	1124
6.03100+	1	4.62000+	0	6.08800+	1	5.76000+	0	6.09900+	1	-2.32000+	02945	3	1	1125
6.12300+	1	-1.65037+	1	6.13900+	1	-2.20953+	1	6.15400+	1	-2.33154+	12945	3	1	1126
6.17300+	1	-1.55037+	1	6.18600+	1	-9.08000+	0	6.19400+	1	7.79999-	12945	3	1	1127
6.20000+	1	8.00000+	0	6.25000+	1	9.00000+	0	6.70000+	1	9.00000+	02945	3	1	1128
6.93000+	1	0.0	+ 0	6.94000+	1	0.0	+ 0	6.95700+	1	3.04297+	02945	3	1	1129
7.12800+	1	2.99000+	0	7.15300+	1	2.84029+	0	7.17700+	1	0.0	+ 02945	3	1	1130
7.25000+	1	0.0	+ 0	7.27800+	1	-1.82139+	0	7.29000+	1	-2.49700+	02945	3	1	1131
7.31400+	1	-3.30772+	0	7.35000+	1	-2.44000+	0	7.36200+	1	-1.55000+	02945	3	1	1132
7.36700+	1	-1.02000+	0	7.37200+	1	0.0	+ 0	7.40000+	1	0.0	+ 02945	3	1	1133
7.42100+	1	7.30000-	1	7.45000+	1	1.58000+	0	7.47400+	1	3.09000+	02945	3	1	1134
7.48000+	1	5.90000+	0	7.49000+	1	8.48000+	0	7.49800+	1	1.04000+	12945	3	1	1135
7.50400+	1	1.15000+	1	7.51000+	1	1.16500+	1	7.51500+	1	1.07000+	12945	3	1	1136
7.51800+	1	9.45000+	0	7.52400+	1	6.62368+	0	7.52900+	1	5.74540+	02945	3	1	1137
7.53400+	1	5.09000+	0	7.58100+	1	0.0	+ 0	8.00000+	1	0.0	+ 02945	3	1	1138
8.25000+	1	2.60000+	0	8.33700+	1	2.60000+	0	8.35800+	1	5.71053+	02945	3	1	1139
8.37600+	1	6.92662+	0	8.41200+	1	8.21027+	0	8.44100+	1	7.12930+	02945	3	1	1140
8.47200+	1	5.77809+	0	8.49700+	1	2.60000+	0	8.49700+	1	2.60000+	02945	3	1	1141
8.75000+	1	2.60000+	0	9.25000+	1	5.00000-	1	9.50000+	1	5.00000-	12945	3	1	1142
1.00000+	2	0.0	+ 0	1.00000+	2	0.0	+ 0	9.50000+	3	0.0	+ 02945	3	1	1143
1.50000+	4	1.67100-	1	2.50000+	4	1.53400-	1	3.00000+	4	1.67350-	12945	3	1	1144
3.00000+	4	1.43994+	1	3.50000+	4	1.41152+	1	4.00000+	4	1.39714+	12945	3	1	1145
4.19749+	4	1.39170+	1	4.50000+	4	1.38418+	1	5.00000+	4	1.36268+	12945	3	1	1146
5.50000+	4	1.34514+	1	6.00000+	4	1.32605+	1	6.30000+	4	1.31751+	12945	3	1	1147
6.80000+	4	1.31388+	1	7.50000+	4	1.29457+	1	8.00000+	4	1.27754+	12945	3	1	1148
8.50000+	4	1.26213+	1	9.00000+	4	1.25329+	1	9.43933+	4	1.24604+	12945	3	1	1149
9.50000+	4	1.24508+	1	1.00000+	5	1.23565+	1	1.25000+	5	1.19269+	12945	3	1	1150
1.50000+	5	1.15174+	1	1.62176+	5	1.13358+	1	1.71515+	5	1.12042+	12945	3	1	1151

1.75000+	5	1.11587+	1	2.00000+	5	1.08340+	1	2.24034+	5	1.05469+	12945	3	1	1152
2.25000+	5	1.05375+	1	2.30962+	5	1.04727+	1	2.43716+	5	1.03372+	12945	3	1	1153
2.50000+	5	1.02744+	1	2.75000+	5	1.00236+	1	3.00000+	5	9.78874+	02945	3	1	1154
3.01255+	5	9.77725+	0	3.25000+	5	9.56879+	0	3.36402+	5	9.47259+	02945	3	1	1155
3.50000+	5	9.36256+	0	3.69540+	5	9.21016+	0	3.75000+	5	9.16914+	02945	3	1	1156
4.00000+	5	8.98769+	0	4.46862+	5	8.67738+	0	4.50000+	5	8.65802+	02945	3	1	1157
4.92050+	5	8.41231+	0	5.00000+	5	8.36897+	0	5.50000+	5	8.11611+	02945	3	1	1158
6.00000+	5	7.89626+	0	6.50000+	5	7.70643+	0	7.00000+	5	7.54396+	02945	3	1	1159
7.50000+	5	7.40630+	0	8.00000+	5	7.29122+	0	8.50000+	5	7.19663+	02945	3	1	1160
9.00000+	5	7.12051+	0	9.50000+	5	7.06104+	0	1.00000+	6	7.01644+	02945	3	1	1161
1.10000+	6	6.96547+	0	1.20000+	6	6.95586+	0	1.30000+	6	6.97768+	02945	3	1	1162
1.40000+	6	7.02195+	0	1.50000+	6	7.08190+	0	1.60000+	6	7.15192+	02945	3	1	1163
1.70000+	6	7.22776+	0	1.80000+	6	7.30609+	0	2.00000+	6	7.46143+	02945	3	1	1164
2.25000+	6	7.63959+	0	2.50000+	6	7.79119+	0	2.75000+	6	7.91227+	02945	3	1	1165
3.00000+	6	8.00210+	0	3.50000+	6	8.08730+	0	4.00000+	6	8.04981+	02945	3	1	1166
4.50000+	6	7.91232+	0	5.00000+	6	7.71531+	0	5.26190+	6	7.52982+	02945	3	1	1167
5.50000+	6	7.49351+	0	6.00000+	6	7.26098+	0	6.50000+	6	7.01811+	02945	3	1	1168
7.00000+	6	6.76752+	0	7.25000+	6	6.64342+	0	7.50000+	6	6.52203+	02945	3	1	1169
8.00000+	6	6.29409+	0	8.50000+	6	6.09161+	0	9.00000+	6	5.92191+	02945	3	1	1170
9.50000+	6	5.78734+	0	1.00000+	7	5.69002+	0	1.05000+	7	5.62703+	02945	3	1	1171
1.10000+	7	5.59443+	0	1.15000+	7	5.58711+	0	1.18190+	7	5.59562+	02945	3	1	1172
1.20000+	7	5.60050+	0	1.25000+	7	5.63098+	0	1.30000+	7	5.67532+	02945	3	1	1173
1.38000+	7	5.77125+	0	1.45000+	7	5.87487+	0	1.50000+	7	5.95534+	02945	3	1	1174
1.60000+	7	6.11172+	0	1.70000+	7	6.23024+	0	1.75030+	7	6.27500+	02945	3	1	1175
1.80000+	7	6.31835+	0	1.90000+	7	6.40784+	0	2.00000+	7	6.51130+	02945	3	1	1176
											2945	3	0	1177
9.42410+	4	2.38986+	2		0		0		0		02945	3	2	1178
0.0	+ 0	0.0	+ 0		0		0		3		1772945	3	2	1179
	82		5		84		2		177		52945	3	2	1180
1.00000-	5	1.05517+	1	1.19607-	5	1.05517+	1	1.39214-	5	1.05517+	12945	3	2	1181
1.78427-	5	1.05516+	1	2.17641-	5	1.05516+	1	2.56854-	5	1.05515+	12945	3	2	1182
3.35281-	5	1.05514+	1	4.13709-	5	1.05513+	1	5.70563-	5	1.05511+	12945	3	2	1183
7.27417-	5	1.05509+	1	8.84271-	5	1.05507+	1	1.04113-	4	1.05504+	12945	3	2	1184
1.35483-	4	1.05500+	1	1.66854-	4	1.05496+	1	1.98225-	4	1.05492+	12945	3	2	1185
2.60967-	4	1.05483+	1	3.23708-	4	1.05475+	1	3.86450-	4	1.05467+	12945	3	2	1186
5.11934-	4	1.05450+	1	6.37417-	4	1.05433+	1	7.62900-	4	1.05417+	12945	3	2	1187
1.01387-	3	1.05383+	1	1.26483-	3	1.05350+	1	1.51580-	3	1.05317+	12945	3	2	1188
2.01773-	3	1.05250+	1	2.51967-	3	1.05184+	1	3.02160-	3	1.05118+	12945	3	2	1189
4.02547-	3	1.04986+	1	5.02934-	3	1.04854+	1	6.03320-	3	1.04723+	12945	3	2	1190
8.04094-	3	1.04462+	1	1.00487-	2	1.04203+	1	1.20564-	2	1.03946+	12945	3	2	1191
1.60719-	2	1.03436+	1	2.00873-	2	1.02931+	1	2.41028-	2	1.02432+	12945	3	2	1192
3.21337-	2	1.01447+	1	4.01647-	2	1.00477+	1	4.81956-	2	9.95189+	02945	3	2	1193
6.42575-	2	9.76269+	0	8.03194-	2	9.57497+	0	9.63812-	2	9.38734+	02945	3	2	1194
1.12443-	1	9.19956+	0	1.28505-	1	9.01355+	0	1.44567-	1	8.83534+	02945	3	2	1195
1.60629-	1	8.67885+	0	1.76691-	1	8.57278+	0	1.92752-	1	8.57189+	02945	3	2	1196
2.08814-	1	8.76940+	0	2.24876-	1	9.29002+	0	2.40938-	1	1.02118+	12945	3	2	1197
2.48969-	1	1.07937+	1	2.57000-	1	1.14039+	1	2.64857-	1	1.19765+	12945	3	2	1198
2.72715-	1	1.24779+	1	2.88430-	1	1.31630+	1	3.04145-	1	1.34287+	12945	3	2	1199
3.19859-	1	1.34094+	1	3.35574-	1	1.32442+	1	3.51289-	1	1.30223+	12945	3	2	1200
3.67004-	1	1.27897+	1	3.82719-	1	1.25671+	1	3.98434-	1	1.23623+	12945	3	2	1201
4.14148-	1	1.21770+	1	4.29863-	1	1.20106+	1	4.45578-	1	1.18614+	12945	3	2	1202
4.61293-	1	1.17272+	1	4.77008-	1	1.16062+	1	4.92723-	1	1.14966+	12945	3	2	1203
5.08438-	1	1.13970+	1	5.39867-	1	1.12225+	1	5.71297-	1	1.10745+	12945	3	2	1204
6.02727-	1	1.09471+	1	6.34156-	1	1.08358+	1	6.65586-	1	1.07374+	12945	3	2	1205
6.97016-	1	1.06495+	1	7.28445-	1	1.05702+	1	7.59875-	1	1.04981+	12945	3	2	1206
8.22734-	1	1.03710+	1	8.85594-	1	1.02614+	1	9.48453-	1	1.01650+	12945	3	2	1207
1.00000+	0	1.00935+	1	1.00000+	0	0.0	+ 0	3.00000+	4	0.0	+ 02945	3	2	1208
3.00000+	4	1.11320+	1	3.50000+	4	1.10009+	1	4.00000+	4	1.08838+	12945	3	2	1209
4.19749+	4	1.08410+	1	4.50000+	4	1.07747+	1	5.00000+	4	1.06846+	12945	3	2	1210
5.50000+	4	1.05861+	1	6.00000+	4	1.05003+	1	6.30000+	4	1.04360+	12945	3	2	1211
6.80000+	4	1.02955+	1	7.50000+	4	1.02063+	1	8.00000+	4	1.01157+	12945	3	2	1212
8.50000+	4	1.00288+	1	9.00000+	4	9.95042+	0	9.43933+	4	9.88120+	02945	3	2	1213
9.50000+	4	9.87175+	0	1.00000+	5	9.79237+	0	1.25000+	5	9.41603+	02945	3	2	1214
1.50000+	5	9.10005+	0	1.62176+	5	8.95058+	0	1.71515+	5	8.83987+	02945	3	2	1215
1.75000+	5	8.79745+	0	2.00000+	5	8.51216+	0	2.24034+	5	8.25313+	02945	3	2	1216
2.25000+	5	8.24162+	0	2.30962+	5	8.17677+	0	2.43716+	5	8.04313+	02945	3	2	1217
2.50000+	5	7.97750+	0	2.75000+	5	7.73828+	0	3.00000+	5	7.50998+	02945	3	2	1218
3.01255+	5	7.49914+	0	3.25000+	5	7.30056+	0	3.36402+	5	7.21082+	02945	3	2	1219
3.50000+	5	7.10702+	0	3.69540+	5	6.95807+	0	3.75000+	5	6.91782+	02945	3	2	1220
4.00000+	5	6.73752+	0	4.46862+	5	6.42747+	0	4.50000+	5	6.40803+	02945	3	2	1221
4.92050+	5	6.15958+	0	5.00000+	5	6.11549+	0	5.50000+	5	5.85616+	02945	3	2	1222
6.00000+	5	6.62509+	0	6.50000+	5	5.41628+	0	7.00000+	5	5.23045+	02945	3	2	1223

7.50000+	5	5.06544+	0	8.00000+	5	4.92117+	0	8.50000+	5	4.79736+	02945	3	2	1224
9.00000+	5	4.69187+	0	9.50000+	5	4.59981+	0	1.00000+	6	4.52199+	02945	3	2	1225
1.10000+	6	4.39964+	0	1.20000+	6	4.31786+	0	1.30000+	6	4.27144+	02945	3	2	1226
1.40000+	6	4.25482+	0	1.50000+	6	4.26217+	0	1.60000+	6	4.28883+	02945	3	2	1227
1.70000+	6	4.33047+	0	1.80000+	6	4.38355+	0	2.00000+	6	4.51138+	02945	3	2	1228
2.25000+	6	4.68878+	0	2.50000+	6	4.86135+	0	2.75000+	6	5.01226+	02945	3	2	1229
3.00000+	6	5.13258+	0	3.50000+	6	5.27018+	0	4.00000+	6	5.27858+	02945	3	2	1230
4.50000+	6	5.18196+	0	5.00000+	6	5.00922+	0	5.50000+	6	4.78964+	02945	3	2	1231
6.00000+	6	4.54935+	0	6.50000+	6	4.30678+	0	7.00000+	6	4.07232+	02945	3	2	1232
7.25000+	6	3.96014+	0	7.50000+	6	3.85221+	0	8.00000+	6	3.65171+	02945	3	2	1233
8.50000+	6	3.47557+	0	9.00000+	6	3.32743+	0	9.50000+	6	3.20959+	02945	3	2	1234
1.00000+	7	3.12301+	0	1.05000+	7	3.06721+	0	1.10000+	7	3.04054+	02945	3	2	1235
1.15000+	7	3.04006+	0	1.20000+	7	3.06189+	0	1.25000+	7	3.10169+	02945	3	2	1236
1.30000+	7	3.15525+	0	1.38000+	7	3.26073+	0	1.45000+	7	3.36598+	02945	3	2	1237
1.50000+	7	3.44603+	0	1.60000+	7	3.61288+	0	1.70000+	7	3.77676+	02945	3	2	1238
1.80000+	7	3.92422+	0	1.90000+	7	4.05309+	0	2.00000+	7	4.16615+	02945	3	2	1239
											2945	3	0	1240
9.42410+	4	2.38986+	2	0	0	99	0	0	0	02945	3	4	1241	
0.0	+	0-4.18000+	4	0	0	0	0	1	1	902945	3	4	1242	
		90	3	0	0	0	0	0	0	02945	3	4	1243	
4.19749+	4	0.0	+	4.50000+	4	6.89483-	3	5.00000+	4	1.19014-	22945	3	4	1244
5.50000+	4	1.53965-	2	6.00000+	4	1.95974-	2	6.30000+	4	2.06435-	22945	3	4	1245
6.80000+	4	1.77557-	2	7.50000+	4	2.59971-	2	8.00000+	4	2.81599-	22945	3	4	1246
8.50000+	4	3.04702-	2	9.00000+	4	3.37725-	2	9.43933+	4	3.62540-	22945	3	4	1247
9.50000+	4	3.68833-	2	1.00000+	5	4.00743-	2	1.25000+	5	5.61631-	22945	3	4	1248
1.50000+	5	7.92589-	2	1.62176+	5	8.87910-	2	1.71515+	5	9.77335-	22945	3	4	1249
1.75000+	5	1.05293-	1	2.00000+	5	1.38823-	1	2.24034+	5	1.65990-	12945	3	4	1250
2.25000+	5	1.70233-	1	2.30962+	5	1.80924-	1	2.43716+	5	2.01067-	12945	3	4	1251
2.50000+	5	2.14255-	1	2.75000+	5	2.60535-	1	3.00000+	5	2.97285-	12945	3	4	1252
3.01255+	5	2.99139-	1	3.25000+	5	3.34968-	1	3.36402+	5	3.52458-	12945	3	4	1253
3.50000+	5	3.74454-	1	3.69540+	5	3.96633-	1	3.75000+	5	4.02595-	12945	3	4	1254
4.00000+	5	4.23850-	1	4.46862+	5	4.54301-	1	4.50000+	5	4.56305-	12945	3	4	1255
4.92050+	5	4.75520-	1	5.00000+	5	4.79040-	1	5.50000+	5	5.03734-	12945	3	4	1256
6.00000+	5	5.30373-	1	6.50000+	5	5.50433-	1	7.00000+	5	5.68753-	12945	3	4	1257
7.50000+	5	5.82974-	1	8.00000+	5	6.00161-	1	8.50000+	5	6.25207-	12945	3	4	1258
9.00000+	5	6.59528-	1	9.50000+	5	6.85890-	1	1.00000+	6	7.19902-	12945	3	4	1259
1.10000+	6	7.65530-	1	1.20000+	6	7.98711-	1	1.30000+	6	8.29291-	12945	3	4	1260
1.40000+	6	8.66461-	1	1.50000+	6	9.07184-	1	1.60000+	6	9.53462-	12945	3	4	1261
1.70000+	6	1.00138+	0	1.80000+	6	1.05004+	0	2.00000+	6	1.12447+	02945	3	4	1262
2.25000+	6	1.18830+	0	2.50000+	6	1.23263+	0	2.75000+	6	1.25210+	02945	3	4	1263
3.00000+	6	1.26922+	0	3.50000+	6	1.29435+	0	4.00000+	6	1.30878+	02945	3	4	1264
4.50000+	6	1.32470+	0	5.00000+	6	1.32828+	0	5.50000+	6	1.19360+	02945	3	4	1265
6.00000+	6	6.97092-	1	6.50000+	6	3.02178-	1	7.00000+	6	1.17935-	12945	3	4	1266
7.25000+	6	7.67417-	2	7.50000+	6	5.19062-	2	8.00000+	6	2.31683-	22945	3	4	1267
8.50000+	6	1.00535-	2	9.00000+	6	4.92888-	3	9.50000+	6	2.29815-	32945	3	4	1268
1.00000+	7	1.10131-	3	1.05000+	7	4.81212-	4	1.10000+	7	2.57843-	42945	3	4	1269
1.15000+	7	9.43109-	5	1.20000+	7	7.16036-	5	1.25000+	7	2.19854-	42945	3	4	1270
1.30000+	7	1.84434-	4	1.38000+	7	2.29370-	4	1.45000+	7	2.02645-	42945	3	4	1271
1.50000+	7	2.08174-	4	1.60000+	7	2.45246-	4	1.70000+	7	1.80667-	42945	3	4	1272
1.80000+	7	2.25016-	4	1.90000+	7	2.46822-	4	2.00000+	7	2.51827-	42945	3	4	1273
										2945	3	0	1274	
9.42410+	4	2.38986+	2	0	0	99	0	0	0	02945	3	16	1275	
0.0	+	0-5.23997+	6	0	0	0	0	1	1	262945	3	16	1276	
		26	2	0	0	0	0	0	0	02945	3	16	1277	
5.26190+	6	0.0	+	5.50000+	6	1.19190-	1	6.00000+	6	5.69110-	12945	3	16	1278
6.50000+	6	7.49770-	1	7.00000+	6	7.12170-	1	7.25000+	6	6.97490-	12945	3	16	1279
7.50000+	6	7.01890-	1	8.00000+	6	6.72200-	1	8.50000+	6	6.50980-	12945	3	16	1280
9.00000+	6	6.29550-	1	9.50000+	6	6.11450-	1	1.00000+	7	5.70910-	12945	3	16	1281
1.05000+	7	4.89340-	1	1.10000+	7	5.53630-	1	1.15000+	7	5.67960-	12945	3	16	1282
1.20000+	7	5.37390-	1	1.25000+	7	4.31910-	1	1.30000+	7	3.24050-	12945	3	16	1283
1.38000+	7	1.91360-	1	1.45000+	7	1.44800-	1	1.50000+	7	1.11830-	12945	3	16	1284
1.60000+	7	5.86450-	2	1.70000+	7	2.48200-	2	1.80000+	7	9.99650-	32945	3	16	1285
1.90000+	7	3.66540-	3	2.00000+	7	1.41020-	3			2945	3	16	1286	
										2945	3	0	1287	
9.42410+	4	2.38986+	2	0	0	99	0	0	0	02945	3	17	1288	
0.0	+	0-1.17697+	7	0	0	0	0	1	1	122945	3	17	1289	
		12	2	0	0	0	0	0	0	02945	3	17	1290	
1.18190+	7	0.0	+	1.20000+	7	1.46860-	4	1.25000+	7	1.21620-	22945	3	17	1291
1.30000+	7	4.78380-	2	1.38000+	7	1.20930-	1	1.45000+	7	2.20890-	12945	3	17	1292
1.50000+	7	2.93270-	1	1.60000+	7	4.13950-	1	1.70000+	7	4.49480-	12945	3	17	1293
1.80000+	7	4.58850-	1	1.90000+	7	4.15530-	1	2.00000+	7	3.51900-	12945	3	17	1294
										2945	3	0	1295	

9.42410+	4	2.38986+	2	0	99	0	02945	3	18	1296						
0.0	+	0	2.01700+	8	0	3	3152945	3	18	1297						
	92	5	234	2	315	32945	3	18	1298							
1.00000-	5	5.06852+	4	1.00000-	4	1.62706+	4	1.00000-	3	5.07648+	32945	3	18	1299		
2.00000-	3	3.59862+	3	5.00000-	3	2.29383+	3	1.00000-	2	1.64259+	32945	3	18	1300		
1.40000-	2	1.37600+	3	2.00000-	2	1.15906+	3	2.53000-	2	1.01500+	32945	3	18	1301		
3.00000-	2	9.47661+	2	4.00000-	2	8.19607+	2	5.00000-	2	7.39372+	22945	3	18	1302		
6.00000-	2	6.94076+	2	7.00000-	2	6.59227+	2	8.00000-	2	6.34987+	22945	3	18	1303		
9.00000-	2	6.29068+	2	1.00000-	1	6.27597+	2	1.10000-	1	6.30542+	22945	3	18	1304		
1.20000-	1	6.43971+	2	1.30000-	1	6.60773+	2	1.40000-	1	6.90833+	22945	3	18	1305		
1.50000-	1	7.25651+	2	1.60000-	1	7.71200+	2	1.70000-	1	8.37062+	22945	3	18	1306		
1.76218-	1	8.93780+	2	1.80000-	1	9.19249+	2	1.84832-	1	9.67843+	22945	3	18	1307		
1.90000-	1	1.03101+	3	2.00000-	1	1.11906+	3	2.05607-	1	1.19768+	32945	3	18	1308		
2.10000-	1	1.26395+	3	2.15741-	1	1.35593+	3	2.20000-	1	1.40111+	32945	3	18	1309		
2.25875-	1	1.47518+	3	2.30000-	1	1.55316+	3	2.36516-	1	1.63910+	32945	3	18	1310		
2.40000-	1	1.66618+	3	2.42597-	1	1.68976+	3	2.47157-	1	1.72171+	32945	3	18	1311		
2.50000-	1	1.72574+	3	2.52224-	1	1.73791+	3	2.57291-	1	1.70966+	32945	3	18	1312		
2.60000-	1	1.67793+	3	2.65398-	1	1.61623+	3	2.70000-	1	1.53868+	32945	3	18	1313		
2.73506-	1	1.48558+	3	2.78066-	1	1.40111+	3	2.80000-	1	1.36549+	32945	3	18	1314		
2.82120-	1	1.32765+	3	2.86680-	1	1.23470+	3	2.90000-	1	1.15095+	32945	3	18	1315		
2.94482-	1	1.05050+	3	2.97641-	1	9.81536+	2	3.00000-	1	9.45444+	22945	3	18	1316		
3.02471-	1	8.95875+	2	3.05258-	1	8.56893+	2	3.10000-	1	7.49832+	22945	3	18	1317		
3.13990-	1	7.02249+	2	3.16220-	1	6.73267+	2	3.20000-	1	6.12165+	22945	3	18	1318		
3.23280-	1	5.74168+	2	3.26067-	1	5.37732+	2	3.30000-	1	4.97477+	22945	3	18	1319		
3.36560-	1	4.40343+	2	3.40000-	1	4.08387+	2	3.45782-	1	3.61922+	22945	3	18	1320		
3.50000-	1	3.25227+	2	3.60000-	1	2.78013+	2	3.70000-	1	2.30547+	22945	3	18	1321		
3.80000-	1	1.96083+	2	3.90000-	1	1.71044+	2	4.00000-	1	1.49203+	22945	3	18	1322		
4.10000-	1	1.30811+	2	4.20000-	1	1.12958+	2	4.30000-	1	1.02604+	22945	3	18	1323		
4.40000-	1	9.27292+	1	4.50000-	1	8.29607+	1	4.75000-	1	7.02031+	12945	3	18	1324		
5.00000-	1	6.01370+	1	5.33000-	1	5.28937+	1	5.67000-	1	4.79931+	12945	3	18	1325		
6.00000-	1	4.50977+	1	6.33000-	1	4.32091+	1	6.67000-	1	4.15609+	12945	3	18	1326		
7.00000-	1	3.98204+	1	7.33000-	1	3.86006+	1	7.67000-	1	3.75639+	12945	3	18	1327		
8.00000-	1	3.68405+	1	8.50000-	1	3.57119+	1	9.00000-	1	3.46180+	12945	3	18	1328		
9.50000-	1	3.34272+	1	1.00000+	0	3.27462+	1	1.00000+	0	0.0	02945	3	18	1329		
4.60000+	0	0.0	+	0	4.63000+	0	-3.90000+	1	4.68000+	0	-1.11000+	22945	3	18	1330	
4.70000+	0	-1.28000+	2	4.72000+	0	-1.31800+	2	4.75000+	0	-1.28500+	22945	3	18	1331		
4.78000+	0	-1.18200+	2	4.80000+	0	-1.12800+	2	4.90000+	0	-9.15000+	12945	3	18	1332		
4.95000+	0	-8.37000+	1	5.10000+	0	-6.15000+	1	5.30000+	0	-3.50000+	12945	3	18	1333		
5.50000+	0	0.0	+	0	7.00000+	0	0.0	+	0	7.15000+	0	3.50000+	12945	3	18	1334
7.80000+	0	4.71000+	1	8.42000+	0	4.20000+	1	8.45000+	0	3.80000+	12945	3	18	1335		
8.48000+	0	1.90000+	1	8.55000+	0	0.0	+	0	8.80000+	0	0.0	02945	3	18	1336	
9.00000+	0	5.00000+	0	9.05000+	0	1.57000+	1	9.10000+	0	2.80000+	12945	3	18	1337		
9.15000+	0	4.85000+	1	9.20122+	0	5.50756+	1	9.25000+	0	5.48000+	12945	3	18	1338		
9.30000+	0	5.40000+	1	9.40000+	0	3.90000+	1	9.45000+	0	1.90000+	12945	3	18	1339		
9.50000+	0	1.10000+	1	9.55000+	0	0.0	+	0	9.62000+	0	0.0	02945	3	18	1340	
9.64000+	0	-2.00000+	1	9.66000+	0	-4.10000+	1	9.70000+	0	-6.70000+	12945	3	18	1341		
9.74000+	0	-5.60000+	1	9.77000+	0	-3.30000+	1	9.81000+	0	-1.30000+	12945	3	18	1342		
9.84000+	0	0.0	+	0	1.35600+	1	0.0	+	0	1.35800+	1	-1.40000+	12945	3	18	1343
1.36000+	1	-1.80000+	0	1.44000+	1	-1.80000+	1	1.45000+	1	0.0	02945	3	18	1344		
1.69100+	1	0.0	+	0	1.69500+	1	-5.46966+	0	1.70000+	1	-7.96940+	02945	3	18	1345	
1.71000+	1	-9.52330+	0	1.72000+	1	-1.04016+	1	1.73000+	1	-9.52330+	02945	3	18	1346		
1.74000+	1	-7.80000+	0	1.74700+	1	-5.40210+	0	1.76000+	1	0.0	02945	3	18	1347		
2.21000+	1	0.0	+	0	2.23100+	1	-6.55063+	0	2.24900+	1	-1.14826+	12945	3	18	1348	
2.26000+	1	-1.39147+	1	2.27100+	1	-1.14150+	1	2.28000+	1	-6.55063+	02945	3	18	1349		
2.28800+	1	0.0	+	0	2.65000+	1	-6.48146-	2	2.68000+	1	-1.07000+	12945	3	18	1350	
2.71900+	1	-1.45903+	1	2.75900+	1	-1.45228+	1	2.79800+	1	-7.80000+	02945	3	18	1351		
2.84900+	1	0.0	+	0	3.53000+	1	0.0	+	0	3.64000+	1	-3.10000+	02945	3	18	1352
3.64900+	1	-5.06430+	0	3.66000+	1	-6.61819+	0	3.67900+	1	-8.78013+	02945	3	18	1353		
3.69900+	1	-9.11793+	0	3.72000+	1	-8.78013+	0	3.73900+	1	-6.61819+	02945	3	18	1354		
3.75400+	1	-3.20000+	0	3.76000+	1	-2.10000+	0	3.76600+	1	-8.00000-	12945	3	18	1355		
3.77200+	1	0.0	+	0	4.35000+	1	0.0	+	0	4.38000+	1	-3.10504+	02945	3	18	1356
4.41400+	1	-3.78065+	0	4.49900+	1	-3.79000+	0	4.57500+	1	-3.86000+	02945	3	18	1357		
4.61200+	1	-2.30000+	0	4.62000+	1	0.0	+	0	5.95900+	1	0.0	02945	3	18	1358	
5.96900+	1	-6.70000+	0	5.98900+	1	-2.16125+	1	6.00100+	1	-2.39771+	12945	3	18	1359		
6.01800+	1	-2.16125+	1	6.03100+	1	0.0	+	0	6.08800+	1	0.0	02945	3	18	1360	
6.09900+	1	-8.30000+	0	6.12300+	1	-2.29637+	1	6.13900+	1	-2.88753+	12945	3	18	1361		
6.15400+	1	-3.03954+	1	6.17300+	1	-2.29637+	1	6.18600+	1	-1.68000+	12945	3	18	1362		
6.19400+	1	-7.10000+	0	6.20000+	1	0.0	+	0	6.94000+	1	0.0	02945	3	18	1363	
6.95700+	1	3.04297+	0	7.12800+	1	2.99000+	0	7.15300+	1	2.84029+	02945	3	18	1364		
7.17700+	1	0.0	+	0	7.25000+	1	0.0	+	0	7.27800+	1	-1.82139+	02945	3	18	1365
7.29000+	1	-2.49700+	0	7.31400+	1	-3.30772+	0	7.35000+	1	-2.44000+	02945	3	18	1366		
7.36200+	1	-1.55000+	0	7.36700+	1	-1.02000+	0	7.37200+	1	0.0	02945	3	18	1367		

7.40000+	1	0.0	+	0	7.42100+	1	7.30000-	1	7.45000+	1	1.58000+	02945	3	18	1368				
7.47400+	1	3.09000+	0	0	7.48000+	1	5.90000+	0	7.49000+	1	8.48000+	02945	3	18	1369				
7.49800+	1	1.04000+	1	7.50400+	1	1.15000+	1	7.51000+	1	1.16500+	12945	3	18	1370					
7.51500+	1	1.07000+	1	7.51800+	1	9.45000+	0	7.52400+	1	6.62368+	02945	3	18	1371					
7.52900+	1	5.74540+	0	7.53400+	1	5.09000+	0	7.58100+	1	0.0	+	02945	3	18	1372				
8.33700+	1	0.0	+	0	8.35800+	1	3.11053+	0	8.37600+	1	4.32662+	02945	3	18	1373				
8.41200+	1	5.61027+	0	8.44100+	1	4.52930+	0	8.47200+	1	3.17809+	02945	3	18	1374					
8.49700+	1	0.0	+	0	8.49700+	1	0.0	+	0	9.50000+	3	0.0	+	02945	3	18	1375		
1.50000+	4	1.30000-	1	2.50000+	4	1.18000-	1	3.00000+	4	1.36500-	12945	3	18	1376					
3.00000+	4	2.72600+	0	3.50000+	4	2.65500+	0	4.00000+	4	2.58500+	02945	3	18	1377					
4.50000+	4	2.51600+	0	5.00000+	4	2.42200+	0	5.50000+	4	2.37200+	02945	3	18	1378					
6.00000+	4	2.30500+	0	6.30000+	4	2.30500+	0	6.80000+	4	2.40000+	02945	3	18	1379					
7.50000+	4	2.27200+	0	8.00000+	4	2.26000+	0	8.50000+	4	2.24600+	02945	3	18	1380					
9.00000+	4	2.21800+	0	9.50000+	4	2.19700+	0	1.00000+	5	2.18300+	02945	3	18	1381					
1.25000+	5	2.13100+	0	1.50000+	5	2.02800+	0	1.75000+	5	1.95900+	02945	3	18	1382					
2.00000+	5	1.89700+	0	2.25000+	5	1.84900+	0	2.50000+	5	1.81400+	02945	3	18	1383					
2.75000+	5	1.76000+	0	3.00000+	5	1.72200+	0	3.25000+	5	1.67400+	02945	3	18	1384					
3.50000+	5	1.61900+	0	3.75000+	5	1.58900+	0	4.00000+	5	1.57000+	02945	3	18	1385					
4.50000+	5	1.54200+	0	5.00000+	5	1.52600+	0	5.50000+	5	1.51000+	02945	3	18	1386					
6.00000+	5	1.49700+	0	6.50000+	5	1.50200+	0	7.00000+	5	1.51400+	02945	3	18	1387					
7.50000+	5	1.53500+	0	8.00000+	5	1.55400+	0	8.50000+	5	1.56200+	02945	3	18	1388					
9.00000+	5	1.55800+	0	9.50000+	5	1.56700+	0	1.00000+	6	1.56800+	02945	3	18	1389					
1.10000+	6	1.60200+	0	1.20000+	6	1.65200+	0	1.30000+	6	1.70000+	02945	3	18	1390					
1.40000+	6	1.73200+	0	1.50000+	6	1.75100+	0	1.60000+	6	1.75400+	02945	3	18	1391					
1.70000+	6	1.74600+	0	1.80000+	6	1.72800+	0	2.00000+	6	1.69500+	02945	3	18	1392					
2.25000+	6	1.65100+	0	2.50000+	6	1.60400+	0	2.75000+	6	1.57200+	02945	3	18	1393					
3.00000+	6	1.53900+	0	3.50000+	6	1.48400+	0	4.00000+	6	1.43900+	02945	3	18	1394					
4.50000+	6	1.39200+	0	5.00000+	6	1.37000+	0	5.50000+	6	1.38700+	02945	3	18	1395					
6.00000+	6	1.44400+	0	6.50000+	6	1.65900+	0	7.00000+	6	1.86500+	02945	3	18	1396					
7.25000+	6	1.90900+	0	7.50000+	6	1.91600+	0	8.00000+	6	1.94700+	02945	3	18	1397					
8.50000+	6	1.95500+	0	9.00000+	6	1.96000+	0	9.50000+	6	1.96400+	02945	3	18	1398					
1.00000+	7	1.99500+	0	1.05000+	7	2.07000+	0	1.10000+	7	2.00000+	02945	3	18	1399					
1.15000+	7	1.97900+	0	1.20000+	7	2.00100+	0	1.25000+	7	2.08500+	02945	3	18	1400					
1.30000+	7	2.14800+	0	1.38000+	7	2.19800+	0	1.45000+	7	2.14300+	02945	3	18	1401					
1.50000+	7	2.10400+	0	1.60000+	7	2.02600+	0	1.70000+	7	1.97900+	02945	3	18	1402					
1.80000+	7	1.92500+	0	1.90000+	7	1.92500+	0	2.00000+	7	1.92900+	02945	3	18	1403					
																2945	3	0	1404
9.42410+	4	2.38986+	2				99					02945	3	37	1405				
0.0	+	0-1.74301+	7				0					1				42945	3	37	1406
			2				0					0				02945	3	37	1407
1.75030+	7	0.0	+	0	1.80000+	7	5.73130-	5	1.90000+	7	1.03030-	22945	3	37	1408				
2.00000+	7	6.25850-	2													2945	3	37	1409
																2945	3	0	1410
9.42410+	4	2.38986+	2				0		1			0				02945	3	51	1411
0.0	+	0-4.18000+	4				0		0			1				902945	3	51	1412
			3				0		0			0				02945	3	51	1413
4.19749+	4	0.0	+	0	4.50000+	4	6.89483-	3	5.00000+	4	1.19014-	22945	3	51	1414				
5.50000+	4	1.53965-	2	6.00000+	4	1.95974-	2	6.30000+	4	2.06435-	22945	3	51	1415					
6.80000+	4	1.77557-	2	7.50000+	4	2.59971-	2	8.00000+	4	2.81599-	22945	3	51	1416					
8.50000+	4	3.04702-	2	9.00000+	4	3.37725-	2	9.43933+	4	3.62540-	22945	3	51	1417					
9.50000+	4	3.67193-	2	1.00000+	5	3.91721-	2	1.25000+	5	4.98841-	22945	3	51	1418					
1.50000+	5	6.55501-	2	1.62176+	5	7.15662-	2	1.71515+	5	7.60877-	22945	3	51	1419					
1.75000+	5	7.76713-	2	2.00000+	5	8.77980-	2	2.24034+	5	9.52468-	22945	3	51	1420					
2.25000+	5	9.51809-	2	2.30962+	5	9.60322-	2	2.43716+	5	9.76164-	22945	3	51	1421					
2.50000+	5	9.76257-	2	2.75000+	5	1.01260-	1	3.00000+	5	1.02872-	12945	3	51	1422					
3.01255+	5	1.03026-	1	3.25000+	5	1.05623-	1	3.36402+	5	1.07250-	12945	3	51	1423					
3.50000+	5	1.08914-	1	3.69540+	5	1.09148-	1	3.75000+	5	1.09226-	12945	3	51	1424					
4.00000+	5	1.08488-	1	4.46862+	5	1.06700-	1	4.50000+	5	1.06593-	12945	3	51	1425					
4.92050+	5	1.04539-	1	5.00000+	5	1.04151-	1	5.50000+	5	1.01587-	12945	3	51	1426					
6.00000+	5	9.83399-	2	6.50000+	5	9.32354-	2	7.00000+	5	8.76320-	22945	3	51	1427					
7.50000+	5	8.16440-	2	8.00000+	5	7.61435-	2	8.50000+	5	7.18653-	22945	3	51	1428					
9.00000+	5	6.86599-	2	9.50000+	5	6.49138-	2	1.00000+	6	6.16480-	22945	3	51	1429					
1.10000+	6	5.41949-	2	1.20000+	6	4.67782-	2	1.30000+	6	4.03084-	22945	3	51	1430					
1.40000+	6	3.49832-	2	1.50000+	6	3.04283-	2	1.60000+	6	2.65355-	22945	3	51	1431					
1.70000+	6	2.31010-	2	1.80000+	6	2.00522-	2	2.00000+	6	1.45825-	22945	3	51	1432					
2.25000+	6	9.38344-	3	2.50000+	6	5.86224-	3	2.75000+	6	3.55599-	32945	3	51	1433					
3.00000+	6	2.13638-	3	3.50000+	6	7.47814-	4	4.00000+	6	2.50639-	42945	3	51	1434					
4.50000+	6	8.15386-	5	5.00000+	6	2.63359-	5	5.50000+	6	7.91290-	62945	3	51	1435					
6.00000+	6	1.62677-	6	6.50000+	6	2.61691-	7	7.00000+	6	3.95253-	82945	3	51	1436					
7.25000+	6	1.62060-	8	7.50000+	6	6.95754-	9	8.00000+	6	1.27763-	92945	3	51	1437					
8.50000+	6	2.33679-	10	9.00000+	6	4.93150-	11	9.50000+	6	1.00890-	112945	3	51	1438					
1.00000+	7	2.15963-	12	1.05000+	7	4.28898-	13	1.10000+	7	1.06207-	132945	3	51	1439					

1.15000+	7	1.82485-14	1.20000+	7	6.62102-15	1.25000+	7	9.83117-152945	3	51	1440				
1.30000+	7	4.03930-15	1.38000+	7	1.64489-15	1.45000+	7	5.62198-162945	3	51	1441				
1.50000+	7	2.97451-16	1.60000+	7	9.61437-17	1.70000+	7	2.01451-172945	3	51	1442				
1.80000+	7	7.35612-18	1.90000+	7	2.44143-18	2.00000+	7	7.77981-192945	3	51	1443				
								2945	3	0	1444				
9.42410+	4	2.38986+	2	0	2	0	0	02945	3	52	1445				
0.0	+	0-9.39999+	4	0	0	1	792945	3	52	1446					
	79		3	0	0	0	0	02945	3	52	1447				
9.43933+	4	0.0	+	0	9.50000+	4	1.63930-	4	1.00000+	5	9.02103-	42945	3	52	1448
1.25000+	5	6.27898-	3	1.50000+	5	1.37088-	2	1.62176+	5	1.72248-	22945	3	52	1449	
1.71515+	5	2.00451-	2	1.75000+	5	2.10421-	2	2.00000+	5	2.80959-	22945	3	52	1450	
2.24034+	5	3.40695-	2	2.25000+	5	3.42787-	2	2.30962+	5	3.54848-	22945	3	52	1451	
2.43716+	5	3.76088-	2	2.50000+	5	3.84361-	2	2.75000+	5	4.25175-	22945	3	52	1452	
3.00000+	5	4.56412-	2	3.01255+	5	4.56354-	2	3.25000+	5	4.85574-	22945	3	52	1453	
3.36402+	5	5.01202-	2	3.50000+	5	5.16627-	2	3.69540+	5	5.29051-	22945	3	52	1454	
3.75000+	5	5.32534-	2	4.00000+	5	5.42176-	2	4.46862+	5	5.55633-	22945	3	52	1455	
4.50000+	5	5.56447-	2	4.92050+	5	5.62963-	2	5.00000+	5	5.64170-	22945	3	52	1456	
5.50000+	5	5.68681-	2	6.00000+	5	5.67760-	2	6.50000+	5	5.53816-	22945	3	52	1457	
7.00000+	5	5.34631-	2	7.50000+	5	5.10810-	2	8.00000+	5	4.87950-	22945	3	52	1458	
8.50000+	5	4.71115-	2	9.00000+	5	4.59910-	2	9.50000+	5	4.43728-	22945	3	52	1459	
1.00000+	6	4.29255-	2	1.10000+	6	3.91137-	2	1.20000+	6	3.48133-	22945	3	52	1460	
1.30000+	6	3.08050-	2	1.40000+	6	2.73507-	2	1.50000+	6	2.42551-	22945	3	52	1461	
1.60000+	6	2.15130-	2	1.70000+	6	1.89848-	2	1.80000+	6	1.66765-	22945	3	52	1462	
2.00000+	6	1.23634-	2	2.25000+	6	8.10152-	3	2.50000+	6	5.13527-	32945	3	52	1463	
2.75000+	6	3.15483-	3	3.00000+	6	1.91799-	3	3.50000+	6	6.86713-	42945	3	52	1464	
4.00000+	6	2.34954-	4	4.50000+	6	7.77827-	5	5.00000+	6	2.55286-	52945	3	52	1465	
5.50000+	6	7.80010-	6	6.00000+	6	1.63173-	6	6.50000+	6	2.66729-	72945	3	52	1466	
7.00000+	6	4.08238-	8	7.25000+	6	1.68324-	8	7.50000+	6	7.26210-	92945	3	52	1467	
8.00000+	6	1.34550-	9	8.50000+	6	2.47922-	10	9.00000+	6	5.26529-	112945	3	52	1468	
9.50000+	6	1.08317-	11	1.00000+	7	2.33034-	12	1.05000+	7	4.64948-	132945	3	52	1469	
1.10000+	7	1.15626-	13	1.15000+	7	1.99456-	14	1.20000+	7	7.26332-	152945	3	52	1470	
1.25000+	7	1.08250-	14	1.30000+	7	4.46391-	15	1.38000+	7	1.82877-	152945	3	52	1471	
1.45000+	7	6.28438-	16	1.50000+	7	3.33775-	16	1.60000+	7	1.08661-	162945	3	52	1472	
1.70000+	7	2.29064-	17	1.80000+	7	8.40311-	18	1.90000+	7	2.80026-	182945	3	52	1473	
2.00000+	7	8.96097-	19							2945	3	52	1474		
										2945	3	0	1475		
9.42410+	4	2.38986+	2	0	3	0	0	02945	3	53	1476				
0.0	+	0-1.61500+	5	0	0	1	742945	3	53	1477					
	74		3	0	0	0	0	02945	3	53	1478				
1.62176+	5	0.0	+	0	1.71515+	5	1.60070-	3	1.75000+	5	2.11676-	32945	3	53	1479
2.00000+	5	6.59376-	3	2.24034+	5	1.07427-	2	2.25000+	5	1.09355-	22945	3	53	1480	
2.30962+	5	1.18114-	2	2.43716+	5	1.36224-	2	2.50000+	5	1.44141-	22945	3	53	1481	
2.75000+	5	1.76895-	2	3.00000+	5	2.02591-	2	3.01255+	5	2.03919-	22945	3	53	1482	
3.25000+	5	2.28141-	2	3.36402+	5	2.40079-	2	3.50000+	5	2.53874-	22945	3	53	1483	
3.69540+	5	2.68038-	2	3.75000+	5	2.71808-	2	4.00000+	5	2.85135-	22945	3	53	1484	
4.46862+	5	3.04198-	2	4.50000+	5	3.05377-	2	4.92050+	5	3.16688-	22945	3	53	1485	
5.00000+	5	3.18516-	2	5.50000+	5	3.26684-	2	6.00000+	5	3.29111-	22945	3	53	1486	
6.50000+	5	3.22089-	2	7.00000+	5	3.10824-	2	7.50000+	5	2.95995-	22945	3	53	1487	
8.00000+	5	2.80998-	2	8.50000+	5	2.69188-	2	9.00000+	5	2.60371-	22945	3	53	1488	
9.50000+	5	2.48908-	2	1.00000+	6	2.38087-	2	1.10000+	6	2.12314-	22945	3	53	1489	
1.20000+	6	1.85202-	2	1.30000+	6	1.60800-	2	1.40000+	6	1.40382-	22945	3	53	1490	
1.50000+	6	1.22700-	2	1.60000+	6	1.07512-	2	1.70000+	6	9.38032-	32945	3	53	1491	
1.80000+	6	8.17216-	3	2.00000+	6	5.96545-	3	2.25000+	6	3.84300-	32945	3	53	1492	
2.50000+	6	2.39438-	3	2.75000+	6	1.44354-	3	3.00000+	6	8.59667-	42945	3	53	1493	
3.50000+	6	2.94402-	4	4.00000+	6	9.65214-	5	4.50000+	6	3.08043-	52945	3	53	1494	
5.00000+	6	9.75324-	6	5.50000+	6	2.86100-	6	6.00000+	6	5.72838-	72945	3	53	1495	
6.50000+	6	8.99367-	8	7.00000+	6	1.33074-	8	7.25000+	6	5.40683-	92945	3	53	1496	
7.50000+	6	2.30166-	9	8.00000+	6	4.16373-	10	8.50000+	6	7.51823-	112945	3	53	1497	
9.00000+	6	1.56926-	11	9.50000+	6	3.17965-	12	1.00000+	7	6.74906-	132945	3	53	1498	
1.05000+	7	1.33054-	13	1.10000+	7	3.27428-	14	1.15000+	7	5.59624-	152945	3	53	1499	
1.20000+	7	2.02076-	15	1.25000+	7	2.98847-	15	1.30000+	7	1.22272-	152945	3	53	1500	
1.38000+	7	4.94343-	16	1.45000+	7	1.67818-	16	1.50000+	7	8.83687-	172945	3	53	1501	
1.60000+	7	2.83284-	17	1.70000+	7	5.89873-	18	1.80000+	7	2.13929-	182945	3	53	1502	
1.90000+	7	7.04137-	19	2.00000+	7	2.22444-	19			2945	3	53	1503		
										2945	3	0	1504		
9.42410+	4	2.38986+	2	0	4	0	0	02945	3	54	1505				
0.0	+	0-1.70800+	5	0	0	1	732945	3	54	1506					
	73		3	0	0	0	0	02945	3	54	1507				
1.71515+	5	0.0	+	0	1.75000+	5	4.46308-	3	2.00000+	5	1.63349-	22945	3	54	1508
2.24034+	5	2.59310-	2	2.25000+	5	2.61984-	2	2.30962+	5	2.79374-	22945	3	54	1509	
2.43716+	5	3.18568-	2	2.50000+	5	3.36214-	2	2.75000+	5	4.07213-	22945	3	54	1510	
3.00000+	5	4.60740-	2	3.01255+	5	4.63491-	2	3.25000+	5	5.12853-	22945	3	54	1511	

3.36402+	5	5.36922-	2	3.50000+	5	5.64298-	2	3.69540+	5	5.90194-	2	22945	3	54	1512
3.75000+	5	5.97007-	2	4.00000+	5	6.19384-	2	4.46862+	5	6.48483-	2	22945	3	54	1513
4.50000+	5	6.50225-	2	4.92050+	5	6.64435-	2	5.00000+	5	6.66521-	2	22945	3	54	1514
5.50000+	5	6.73031-	2	6.00000+	5	6.68701-	2	6.50000+	5	6.46232-	2	22945	3	54	1515
7.00000+	5	6.16635-	2	7.50000+	5	5.80989-	2	8.00000+	5	5.46224-	2	22945	3	54	1516
8.50000+	5	5.18577-	2	9.00000+	5	4.97469-	2	9.50000+	5	4.71848-	2	22945	3	54	1517
1.00000+	6	4.48423-	2	1.10000+	6	3.94997-	2	1.20000+	6	3.41321-	2	22945	3	54	1518
1.30000+	6	2.94179-	2	1.40000+	6	2.55434-	2	1.50000+	6	2.22397-	2	22945	3	54	1519
1.60000+	6	1.94350-	2	1.70000+	6	1.69304-	2	1.80000+	6	1.47332-	2	22945	3	54	1520
2.00000+	6	1.07502-	2	2.25000+	6	6.93247-	3	2.50000+	6	4.32720-	3	32945	3	54	1521
2.75000+	6	2.61476-	3	3.00000+	6	1.56114-	3	3.50000+	6	5.37626-	4	2945	3	54	1522
4.00000+	6	1.77226-	4	4.50000+	6	5.68050-	5	5.00000+	6	1.80468-	5	2945	3	54	1523
5.50000+	6	5.31190-	6	6.00000+	6	1.06764-	6	6.50000+	6	1.68343-	7	2945	3	54	1524
7.00000+	6	2.50178-	8	7.25000+	6	1.01864-	8	7.50000+	6	4.34528-	9	2945	3	54	1525
8.00000+	6	7.89032-	10	8.50000+	6	1.42944-	10	9.00000+	6	2.99206-	11	2945	3	54	1526
9.50000+	6	6.07701-	12	1.00000+	7	1.29249-	12	1.05000+	7	2.55235-	13	2945	3	54	1527
1.10000+	7	6.28966-	14	1.15000+	7	1.07622-	14	1.20000+	7	3.88969-	15	2945	3	54	1528
1.25000+	7	5.75713-	15	1.30000+	7	2.35713-	15	1.38000+	7	9.53931-	16	2945	3	54	1529
1.45000+	7	3.24104-	16	1.50000+	7	1.70765-	16	1.60000+	7	5.48104-	17	2945	3	54	1530
1.70000+	7	1.14290-	17	1.80000+	7	4.15146-	18	1.90000+	7	1.36870-	18	2945	3	54	1531
2.00000+	7	4.33028-	19								2945	3	54	1532	
											2945	3	0	1533	
9.42410+	4	2.38986+	2		0		5		0		02945	3	55	1534	
0.0	+	0-2.23100+	5		0		0		1		702945	3	55	1535	
	70		3		0		0		0		02945	3	55	1536	
2.24034+	5	0.0	+ 0	2.25000+	5	3.63929-	3	2.30962+	5	9.65799-	3	2945	3	55	1537
2.43716+	5	1.75168-	2	2.50000+	5	2.06294-	2	2.75000+	5	3.27790-	2	22945	3	55	1538
3.00000+	5	4.26578-	2	3.01255+	5	4.31843-	2	3.25000+	5	5.16942-	2	22945	3	55	1539
3.36402+	5	5.56233-	2	3.50000+	5	6.00567-	2	3.69540+	5	6.46700-	2	22945	3	55	1540
3.75000+	5	6.58648-	2	4.00000+	5	7.00858-	2	4.46862+	5	7.56645-	2	22945	3	55	1541
4.50000+	5	7.59752-	2	4.92050+	5	7.88759-	2	5.00000+	5	7.93066-	2	22945	3	55	1542
5.50000+	5	8.09165-	2	6.00000+	5	8.08766-	2	6.50000+	5	7.84445-	2	22945	3	55	1543
7.00000+	5	7.48934-	2	7.50000+	5	7.06070-	2	8.00000+	5	6.63515-	2	22945	3	55	1544
8.50000+	5	6.29326-	2	9.00000+	5	6.03009-	2	9.50000+	5	5.71090-	2	22945	3	55	1545
1.00000+	6	5.42332-	2	1.10000+	6	4.76438-	2	1.20000+	6	4.11351-	2	22945	3	55	1546
1.30000+	6	3.54541-	2	1.40000+	6	3.08157-	2	1.50000+	6	2.68807-	2	22945	3	55	1547
1.60000+	6	2.35503-	2	1.70000+	6	2.05872-	2	1.80000+	6	1.79548-	2	22945	3	55	1548
2.00000+	6	1.31933-	2	2.25000+	6	8.57399-	3	2.50000+	6	5.38856-	3	32945	3	55	1549
2.75000+	6	3.27607-	3	3.00000+	6	1.96713-	3	3.50000+	6	6.84895-	4	2945	3	55	1550
4.00000+	6	2.28171-	4	4.50000+	6	7.38069-	5	5.00000+	6	2.36352-	5	2945	3	55	1551
5.50000+	6	7.01260-	6	6.00000+	6	1.42162-	6	6.50000+	6	2.26065-	7	2945	3	55	1552
7.00000+	6	3.38431-	8	7.25000+	6	1.38227-	8	7.50000+	6	5.91437-	9	2945	3	55	1553
8.00000+	6	1.07905-	9	8.50000+	6	1.96347-	10	9.00000+	6	4.12651-	11	2945	3	55	1554
9.50000+	6	8.41243-	12	1.00000+	7	1.79535-	12	1.05000+	7	3.55643-	13	2945	3	55	1555
1.10000+	7	8.78802-	14	1.15000+	7	1.50725-	14	1.20000+	7	5.45773-	15	2945	3	55	1556
1.25000+	7	8.09201-	15	1.30000+	7	3.31771-	15	1.38000+	7	1.34527-	16	2945	3	55	1557
1.45000+	7	4.57814-	16	1.50000+	7	2.41517-	16	1.60000+	7	7.77449-	17	2945	3	55	1558
1.70000+	7	1.62639-	17	1.80000+	7	5.92435-	18	1.90000+	7	1.95808-	18	2945	3	55	1559
2.00000+	7	6.21035-	19								2945	3	55	1560	
											2945	3	0	1561	
9.42410+	4	2.38986+	2		0		6		0		02945	3	56	1562	
0.0	+	0-2.30000+	5		0		0		1		682945	3	56	1563	
	68		3		0		0		0		02945	3	56	1564	
2.30962+	5	0.0	+ 0	2.43716+	5	2.84575-	3	2.50000+	5	4.06599-	3	2945	3	56	1565
2.75000+	5	9.44686-	3	3.00000+	5	1.46090-	2	3.01255+	5	1.48489-	2	22945	3	56	1566
3.25000+	5	1.95177-	2	3.36402+	5	2.17408-	2	3.50000+	5	2.41227-	2	22945	3	56	1567
3.69540+	5	2.69528-	2	3.75000+	5	2.77020-	2	4.00000+	5	3.05974-	2	22945	3	56	1568
4.46862+	5	3.49452-	2	4.50000+	5	3.51840-	2	4.92050+	5	3.79652-	2	22945	3	56	1569
5.00000+	5	3.84310-	2	5.50000+	5	4.08207-	2	6.00000+	5	4.23112-	2	22945	3	56	1570
6.50000+	5	4.24504-	2	7.00000+	5	4.18520-	2	7.50000+	5	4.06869-	2	22945	3	56	1571
8.00000+	5	3.93904-	2	8.50000+	5	3.84490-	2	9.00000+	5	3.78787-	2	22945	3	56	1572
9.50000+	5	3.68332-	2	1.00000+	6	3.58821-	2	1.10000+	6	3.30474-	2	22945	3	56	1573
1.20000+	6	2.97793-	2	1.30000+	6	2.66431-	2	1.40000+	6	2.39114-	2	22945	3	56	1574
1.50000+	6	2.14347-	2	1.60000+	6	1.92173-	2	1.70000+	6	1.71310-	2	22945	3	56	1575
1.80000+	6	1.51856-	2	2.00000+	6	1.14596-	2	2.25000+	6	7.63705-	3	32945	3	56	1576
2.50000+	6	4.89999-	3	2.75000+	6	3.03573-	3	3.00000+	6	1.85641-	3	32945	3	56	1577
3.50000+	6	6.69813-	4	4.00000+	6	2.30505-	4	4.50000+	6	7.66188-	5	2945	3	56	1578
5.00000+	6	2.51739-	5	5.50000+	6	7.68240-	6	6.00000+	6	1.60496-	6	2945	3	56	1579
6.50000+	6	2.62456-	7	7.00000+	6	4.02326-	8	7.25000+	6	1.66022-	8	2945	3	56	1580
7.50000+	6	7.17174-	9	8.00000+	6	1.32999-	9	8.50000+	6	2.45367-	10	2945	3	56	1581
9.00000+	6	5.21650-	11	9.50000+	6	1.07396-	11	1.00000+	7	2.31193-	12	2945	3	56	1582
1.05000+	7	4.61512-	13	1.10000+	7	1.14830-	13	1.15000+	7	1.98188-	14	2945	3	56	1583

1.20000+	7	7.21978-15	1.25000+	7	1.07671-14	1.30000+	7	4.44162-15	2945	3	56	1584			
1.38000+	7	1.82002-15	1.45000+	7	6.25387-16	1.50000+	7	3.32157-16	2945	3	56	1585			
1.60000+	7	1.08214-16	1.70000+	7	2.28523-17	1.80000+	7	8.38928-18	2945	3	56	1586			
1.90000+	7	2.79405-18	2.00000+	7	8.93347-19				2945	3	56	1587			
									2945	3	0	1588			
9.42410+	4	2.38986+	2	0	7	0	0	02945	3	57	1589				
0.0	+	0-2.42700+	5	0	0	1	1	672945	3	57	1590				
	67		3	0	0	0	0	02945	3	57	1591				
2.43716+	5	0.0	+	0	2.50000+	5	5.46197-	3	2.75000+	5	1.61203-	22945	3	57	1592
3.00000+	5	2.53518-	2	3.01255+	5	2.57028-	2	3.25000+	5	3.38795-	22945	3	57	1593	
3.36402+	5	3.76750-	2	3.50000+	5	4.18358-	2	3.69540+	5	4.65663-	22945	3	57	1594	
3.75000+	5	4.78009-	2	4.00000+	5	5.24218-	2	4.46862+	5	5.88886-	22945	3	57	1595	
4.50000+	5	5.92523-	2	4.92050+	5	6.30116-	2	5.00000+	5	6.35964-	22945	3	57	1596	
5.50000+	5	6.62577-	2	6.00000+	5	6.73265-	2	6.50000+	5	6.62032-	22945	3	57	1597	
7.00000+	5	6.39785-	2	7.50000+	5	6.09413-	2	8.00000+	5	5.78316-	22945	3	57	1598	
8.50000+	5	5.53532-	2	9.00000+	5	5.34984-	2	9.50000+	5	5.10743-	22945	3	57	1599	
1.00000+	6	4.88947-	2	1.10000+	6	4.35797-	2	1.20000+	6	3.81326-	22945	3	57	1600	
1.30000+	6	3.32870-	2	1.40000+	6	2.92589-	2	1.50000+	6	2.57821-	22945	3	57	1601	
1.60000+	6	2.27936-	2	1.70000+	6	2.00890-	2	1.80000+	6	1.76444-	22945	3	57	1602	
2.00000+	6	1.31315-	2	2.25000+	6	8.64411-	3	2.50000+	6	5.49170-	32945	3	57	1603	
2.75000+	6	3.37113-	3	3.00000+	6	2.04247-	3	3.50000+	6	7.23040-	42945	3	57	1604	
4.00000+	6	2.44375-	4	4.50000+	6	7.99696-	5	5.00000+	6	2.58754-	52945	3	57	1605	
5.50000+	6	7.76290-	6	6.00000+	6	1.59268-	6	6.50000+	6	2.56256-	72945	3	57	1606	
7.00000+	6	3.87728-	8	7.25000+	6	1.59127-	8	7.50000+	6	6.83967-	92945	3	57	1607	
8.00000+	6	1.25784-	9	8.50000+	6	2.30419-	10	9.00000+	6	4.86922-	112945	3	57	1608	
9.50000+	6	9.97146-	12	1.00000+	7	2.13613-	12	1.05000+	7	4.24515-	132945	3	57	1609	
1.10000+	7	1.05193-	13	1.15000+	7	1.80876-	14	1.20000+	7	6.56570-	152945	3	57	1610	
1.25000+	7	9.75868-	15	1.30000+	7	4.01166-	15	1.38000+	7	1.63417-	152945	3	57	1611	
1.45000+	7	5.58478-	16	1.50000+	7	2.95481-	16	1.60000+	7	9.56064-	172945	3	57	1612	
1.70000+	7	2.00834-	17	1.80000+	7	7.34069-	18	1.90000+	7	2.43412-	182945	3	57	1613	
2.00000+	7	7.74649-	19							2945	3	57	1614		
										2945	3	0	1615		
9.42410+	4	2.38986+	2	0	8	0	0	02945	3	58	1616				
0.0	+	0-3.00000+	5	0	0	1	1	632945	3	58	1617				
	63		3	0	0	0	0	02945	3	58	1618				
3.01255+	5	0.0	+	0	3.25000+	5	1.59690-	3	3.36402+	5	2.34915-	32945	3	58	1619
3.50000+	5	3.24445-	3	3.69540+	5	4.49476-	3	3.75000+	5	4.84956-	32945	3	58	1620	
4.00000+	5	6.33732-	3	4.46862+	5	8.83098-	3	4.50000+	5	8.97013-	32945	3	58	1621	
4.92050+	5	1.08325-	2	5.00000+	5	1.11656-	2	5.50000+	5	1.30931-	22945	3	58	1622	
6.00000+	5	1.47124-	2	6.50000+	5	1.58105-	2	7.00000+	5	1.65630-	22945	3	58	1623	
7.50000+	5	1.69827-	2	8.00000+	5	1.72586-	2	8.50000+	5	1.76122-	22945	3	58	1624	
9.00000+	5	1.80665-	2	9.50000+	5	1.82306-	2	1.00000+	6	1.83791-	22945	3	58	1625	
1.10000+	6	1.79614-	2	1.20000+	6	1.70136-	2	1.30000+	6	1.59201-	22945	3	58	1626	
1.40000+	6	1.48250-	2	1.50000+	6	1.37148-	2	1.60000+	6	1.26318-	22945	3	58	1627	
1.70000+	6	1.15257-	2	1.80000+	6	1.04317-	2	2.00000+	6	8.12847-	32945	3	58	1628	
2.25000+	6	5.58903-	3	2.50000+	6	3.67515-	3	2.75000+	6	2.32436-	32945	3	58	1629	
3.00000+	6	1.44802-	3	3.50000+	6	5.40124-	4	4.00000+	6	1.91378-	42945	3	58	1630	
4.50000+	6	6.51821-	5	5.00000+	6	2.18875-	5	5.50000+	6	6.82880-	62945	3	58	1631	
6.00000+	6	1.45956-	6	6.50000+	6	2.43804-	7	7.00000+	6	3.80514-	82945	3	58	1632	
7.25000+	6	1.58236-	8	7.50000+	6	6.88120-	9	8.00000+	6	1.29139-	92945	3	58	1633	
8.50000+	6	2.40558-	10	9.00000+	6	5.15565-	11	9.50000+	6	1.06884-	112945	3	58	1634	
1.00000+	7	2.31526-	12	1.05000+	7	4.64846-	13	1.10000+	7	1.16285-	132945	3	58	1635	
1.15000+	7	2.01733-	14	1.20000+	7	7.38496-	15	1.25000+	7	1.10677-	142945	3	58	1636	
1.30000+	7	4.58796-	15	1.38000+	7	1.89504-	15	1.45000+	7	6.55782-	162945	3	58	1637	
1.50000+	7	3.50025-	16	1.60000+	7	1.15079-	16	1.70000+	7	2.44874-	172945	3	58	1638	
1.80000+	7	9.04194-	18	1.90000+	7	3.02663-	18	2.00000+	7	9.72664-	192945	3	58	1639	
										2945	3	0	1640		
9.42410+	4	2.38986+	2	0	9	0	0	02945	3	59	1641				
0.0	+	0-3.35000+	5	0	0	1	1	612945	3	59	1642				
	61		3	0	0	0	0	02945	3	59	1643				
3.36402+	5	0.0	+	0	3.50000+	5	2.80084-	3	3.69540+	5	6.07336-	32945	3	59	1644
3.75000+	5	7.00038-	3	4.00000+	5	1.10781-	2	4.46862+	5	1.77789-	22945	3	59	1645	
4.50000+	5	1.81753-	2	4.92050+	5	2.28537-	2	5.00000+	5	2.36370-	22945	3	59	1646	
5.50000+	5	2.78163-	2	6.00000+	5	3.08177-	2	6.50000+	5	3.23772-	22945	3	59	1647	
7.00000+	5	3.30100-	2	7.50000+	5	3.28696-	2	8.00000+	5	3.24067-	22945	3	59	1648	
8.50000+	5	3.21062-	2	9.00000+	5	3.19917-	2	9.50000+	5	3.13945-	22945	3	59	1649	
1.00000+	6	3.08417-	2	1.10000+	6	2.87307-	2	1.20000+	6	2.60990-	22945	3	59	1650	
1.30000+	6	2.35723-	2	1.40000+	6	2.13393-	2	1.50000+	6	1.92881-	22945	3	59	1651	
1.60000+	6	1.74367-	2	1.70000+	6	1.56725-	2	1.80000+	6	1.40122-	22945	3	59	1652	
2.00000+	6	1.07240-	2	2.25000+	6	7.25452-	3	2.50000+	6	4.70648-	32945	3	59	1653	
2.75000+	6	2.93854-	3	3.00000+	6	1.80674-	3	3.50000+	6	6.56221-	42945	3	59	1654	
4.00000+	6	2.26880-	4	4.50000+	6	7.56710-	5	5.00000+	6	2.48932-	52945	3	59	1655	

5.50000+	6	7.59230-	6	6.00000+	6	1.58429-	6	6.50000+	6	2.59085-	72945	3	59	1656	
7.00000+	6	3.97613-	8	7.25000+	6	1.64199-	8	7.50000+	6	7.09640-	92945	3	59	1657	
8.00000+	6	1.31771-	9	8.50000+	6	2.43345-	10	9.00000+	6	5.17795-	112945	3	59	1658	
9.50000+	6	1.06675-	11	1.00000+	7	2.29748-	12	1.05000+	7	4.58813-	132945	3	59	1659	
1.10000+	7	1.14203-	13	1.15000+	7	1.97187-	14	1.20000+	7	7.18567-	152945	3	59	1660	
1.25000+	7	1.07214-	14	1.30000+	7	4.42410-	15	1.38000+	7	1.81323-	152945	3	59	1661	
1.45000+	7	6.23033-	16	1.50000+	7	3.30902-	16	1.60000+	7	1.07858-	162945	3	59	1662	
1.70000+	7	2.28069-	17	1.80000+	7	8.37813-	18	1.90000+	7	2.78933-	182945	3	59	1663	
2.00000+	7	8.91269-	19							2945	3	59	1664		
										2945	3	0	1665		
9.42410+	4	2.38986+	2	0		10	0			02945	3	60	1666		
0.0	+	0-3.68000+	5	0		0	0			592945	3	60	1667		
		59	3	0		0	0			02945	3	60	1668		
3.69540+	5	0.0	+	0	3.75000+	5	1.57442-	5	4.00000+	5	1.72313-	42945	3	60	1669
4.46862+	5	6.60499-	4	4.50000+	5	6.90903-	4	4.92050+	5	1.23768-	32945	3	60	1670	
5.00000+	5	1.35161-	3	5.50000+	5	2.11365-	3	6.00000+	5	2.91522-	32945	3	60	1671	
6.50000+	5	3.65908-	3	7.00000+	5	4.33191-	3	7.50000+	5	4.90726-	32945	3	60	1672	
8.00000+	5	5.41867-	3	8.50000+	5	5.92837-	3	9.00000+	5	6.46745-	32945	3	60	1673	
9.50000+	5	6.88178-	3	1.00000+	6	7.27467-	3	1.10000+	6	7.68881-	32945	3	60	1674	
1.20000+	6	7.76076-	3	1.30000+	6	7.66157-	3	1.40000+	6	7.48219-	32945	3	60	1675	
1.50000+	6	7.19985-	3	1.60000+	6	6.86130-	3	1.70000+	6	6.44895-	32945	3	60	1676	
1.80000+	6	5.98856-	3	2.00000+	6	4.87120-	3	2.25000+	6	3.49026-	32945	3	60	1677	
2.50000+	6	2.37129-	3	2.75000+	6	1.54164-	3	3.00000+	6	9.84512-	42945	3	60	1678	
3.50000+	6	3.84053-	4	4.00000+	6	1.41582-	4	4.50000+	6	4.98871-	52945	3	60	1679	
5.00000+	6	1.72789-	5	5.50000+	6	5.56110-	6	6.00000+	6	1.22619-	62945	3	60	1680	
6.50000+	6	2.10543-	7	7.00000+	6	3.36011-	8	7.25000+	6	1.41030-	82945	3	60	1681	
7.50000+	6	6.18267-	9	8.00000+	6	1.17603-	9	8.50000+	6	2.21445-	102945	3	60	1682	
9.00000+	6	4.78832-	11	9.50000+	6	1.00027-	11	1.00000+	7	2.18168-	122945	3	60	1683	
1.05000+	7	4.40873-	13	1.10000+	7	1.10978-	13	1.15000+	7	1.93698-	142945	3	60	1684	
1.20000+	7	7.13336-	15	1.25000+	7	1.07556-	14	1.30000+	7	4.48597-	152945	3	60	1685	
1.38000+	7	1.87161-	15	1.45000+	7	6.53418-	16	1.50000+	7	3.50894-	162945	3	60	1686	
1.60000+	7	1.16635-	16	1.70000+	7	2.50375-	17	1.80000+	7	9.30775-	182945	3	60	1687	
1.90000+	7	3.13468-	18	2.00000+	7	1.01385-	18			2945	3	60	1688		
										2945	3	0	1689		
9.42410+	4	2.38986+	2	0		11	0			02945	3	61	1690		
0.0	+	0-4.45000+	5	0		0	0			562945	3	61	1691		
		56	3	0		0	0			02945	3	61	1692		
4.46862+	5	0.0	+	0	4.50000+	5	2.59357-	4	4.92050+	5	1.79600-	32945	3	61	1693
5.00000+	5	2.09369-	3	5.50000+	5	3.93222-	3	6.00000+	5	5.59693-	32945	3	61	1694	
6.50000+	5	6.92982-	3	7.00000+	5	7.96245-	3	7.50000+	5	8.70068-	32945	3	61	1695	
8.00000+	5	9.23725-	3	8.50000+	5	9.71585-	3	9.00000+	5	1.01742-	22945	3	61	1696	
9.50000+	5	1.04138-	2	1.00000+	6	1.05838-	2	1.10000+	6	1.04300-	22945	3	61	1697	
1.20000+	6	9.84265-	3	1.30000+	6	9.12834-	3	1.40000+	6	8.43701-	32945	3	61	1698	
1.50000+	6	7.74938-	3	1.60000+	6	7.09554-	3	1.70000+	6	6.45287-	32945	3	61	1699	
1.80000+	6	5.83702-	3	2.00000+	6	4.57898-	3	2.25000+	6	3.21247-	32945	3	61	1700	
2.50000+	6	2.16595-	3	2.75000+	6	1.40731-	3	3.00000+	6	9.02016-	42945	3	61	1701	
3.50000+	6	3.60158-	4	4.00000+	6	1.39792-	4	4.50000+	6	5.30572-	52945	3	61	1702	
5.00000+	6	1.97530-	5	5.50000+	6	6.62960-	6	6.00000+	6	1.46401-	62945	3	61	1703	
6.50000+	6	2.44007-	7	7.00000+	6	3.73119-	8	7.25000+	6	1.53201-	82945	3	61	1704	
7.50000+	6	6.57686-	9	8.00000+	6	1.20617-	9	8.50000+	6	2.21163-	102945	3	61	1705	
9.00000+	6	4.70821-	11	9.50000+	6	9.77776-	12	1.00000+	7	2.13524-	122945	3	61	1706	
1.05000+	7	4.33845-	13	1.10000+	7	1.09980-	13	1.15000+	7	1.93234-	142945	3	61	1707	
1.20000+	7	7.15020-	15	1.25000+	7	1.08177-	14	1.30000+	7	4.51669-	152945	3	61	1708	
1.38000+	7	1.88078-	15	1.45000+	7	6.53510-	16	1.50000+	7	3.49301-	162945	3	61	1709	
1.60000+	7	1.14915-	16	1.70000+	7	2.44860-	17	1.80000+	7	9.05841-	182945	3	61	1710	
1.90000+	7	3.03189-	18	2.00000+	7	9.73186-	19			2945	3	61	1711		
										2945	3	0	1712		
9.42410+	4	2.38986+	2	0		98	0			02945	3	91	1713		
0.0	+	0-4.90000+	5	0		0	0			542945	3	91	1714		
		54	3	0		0	0			02945	3	91	1715		
4.92050+	5	0.0	+	0	5.00000+	5	3.86554-	4	5.50000+	5	1.03577-	22945	3	91	1716
6.00000+	5	3.09198-	2	6.50000+	5	5.91095-	2	7.00000+	5	9.23206-	22945	3	91	1717	
7.50000+	5	1.26855-	1	8.00000+	5	1.64606-	1	8.50000+	5	2.05356-	12945	3	91	1718	
9.00000+	5	2.50716-	1	9.50000+	5	2.92590-	1	1.00000+	6	3.40588-	12945	3	91	1719	
1.10000+	6	4.22408-	1	1.20000+	6	4.94704-	1	1.30000+	6	5.61013-	12945	3	91	1720	
1.40000+	6	6.28476-	1	1.50000+	6	6.95942-	1	1.60000+	6	7.65641-	12945	3	91	1721	
1.70000+	6	8.35072-	1	1.80000+	6	9.03356-	1	2.00000+	6	1.01472+	02945	3	91	1722	
2.25000+	6	1.11564+	0	2.50000+	6	1.18622+	0	2.75000+	6	1.22343+	02945	3	91	1723	
3.00000+	6	1.25174+	0	3.50000+	6	1.28807+	0	4.00000+	6	1.30662+	02945	3	91	1724	
4.50000+	6	1.32398+	0	5.00000+	6	1.32804+	0	5.50000+	6	1.19360+	02945	3	91	1725	
6.00000+	6	6.97076-	1	6.50000+	6	3.02175-	1	7.00000+	6	1.17935-	12945	3	91	1726	
7.25000+	6	7.67415-	2	7.50000+	6	5.19061-	2	8.00000+	6	2.31683-	22945	3	91	1727	

8.50000+	6	1.00535-	2	9.00000+	6	4.92888-	3	9.50000+	6	2.29815-	32945	3	91	1728	
1.00000+	7	1.10131-	3	1.05000+	7	4.81212-	4	1.10000+	7	2.57843-	42945	3	91	1729	
1.15000+	7	9.43109-	5	1.20000+	7	7.16036-	5	1.25000+	7	2.19854-	42945	3	91	1730	
1.30000+	7	1.84434-	4	1.38000+	7	2.29370-	4	1.45000+	7	2.02645-	42945	3	91	1731	
1.50000+	7	2.08174-	4	1.60000+	7	2.45246-	4	1.70000+	7	1.80667-	42945	3	91	1732	
1.80000+	7	2.25016-	4	1.90000+	7	2.46822-	4	2.00000+	7	2.51827-	42945	3	91	1733	
											2945	3	0	1734	
9.42410+	4	2.38986+	2		0		99		0		02945	3102		1735	
0.0	+	0	6.30970+	6		0			3		1802945	3102		1736	
		79		5		105		2	180		52945	3102		1737	
1.00000-	5	2.25825+	4	1.00000-	4	7.00000+	3	1.00000-	3	2.19000+	32945	3102		1738	
2.00000-	3	1.51764+	3	5.00000-	3	9.20667+	2	1.00000-	2	6.34500+	22945	3102		1739	
1.40000-	2	5.21481+	2	2.00000-	2	4.16190+	2	2.53000-	2	3.63000+	22945	3102		1740	
3.00000-	2	3.24239+	2	4.00000-	2	2.77553+	2	5.00000-	2	2.43700+	22945	3102		1741	
6.00000-	2	2.19400+	2	7.00000-	2	2.02863+	2	8.00000-	2	1.90800+	22945	3102		1742	
9.00000-	2	1.84169+	2	1.00000-	1	1.77200+	2	1.10000-	1	1.74400+	22945	3102		1743	
1.20000-	1	1.76267+	2	1.30000-	1	1.82636+	2	1.40000-	1	1.89927+	22945	3102		1744	
1.50000-	1	2.05573+	2	1.60000-	1	2.28735+	2	1.70000-	1	2.53398+	22945	3102		1745	
1.80000-	1	2.81031+	2	1.90000-	1	3.15100+	2	2.00000-	1	3.57830+	22945	3102		1746	
2.05000-	1	3.82000+	2	2.10000-	1	4.07590+	2	2.15000-	1	4.33000+	22945	3102		1747	
2.20000-	1	4.61900+	2	2.25000-	1	4.93800+	2	2.30000-	1	5.28800+	22945	3102		1748	
2.35000-	1	5.65300+	2	2.40000-	1	6.04730+	2	2.42000-	1	6.21500+	22945	3102		1749	
2.47000-	1	6.47300+	2	2.50000-	1	6.60460+	2	2.52500-	1	6.70687+	22945	3102		1750	
2.55000-	1	6.74700+	2	2.57500-	1	6.81259+	2	2.60000-	1	6.86220+	22945	3102		1751	
2.63000-	1	6.89900+	2	2.65000-	1	6.89900+	2	2.67000-	1	6.86234+	22945	3102		1752	
2.70000-	1	6.77800+	2	2.73500-	1	6.59319+	2	2.75000-	1	6.48900+	22945	3102		1753	
2.78000-	1	6.26300+	2	2.80000-	1	6.10150+	2	2.85000-	1	5.66800+	22945	3102		1754	
2.90000-	1	5.30300+	2	2.95000-	1	4.86200+	2	3.00000-	1	4.51300+	22945	3102		1755	
3.05000-	1	4.14800+	2	3.10000-	1	3.85900+	2	3.20000-	1	3.31200+	22945	3102		1756	
3.30000-	1	2.78000+	2	3.40000-	1	2.35400+	2	3.50000-	1	12.12419+	22945	3102		1757	
3.60000-	1	1.84309+	2	3.70000-	1	1.56241+	2	3.80000-	1	11.38041+	22945	3102		1758	
3.90000-	1	1.17586+	2	4.00000-	1	1.04731+	2	4.25000-	1	7.90000+	12945	3102		1759	
4.50000-	1	6.11000+	1	4.75000-	1	4.89500+	1	5.00000-	1	3.83100+	12945	3102		1760	
5.50000-	1	2.66900+	1	6.00000-	1	2.01700+	1	6.50000-	1	1.57900+	12945	3102		1761	
7.00000-	1	1.28000+	1	7.50000-	1	1.07400+	1	8.00000-	1	9.12200+	02945	3102		1762	
8.50000-	1	7.93100+	0	9.00000-	1	6.97500+	0	9.50000-	1	6.28000+	02945	3102		1763	
1.00000+	0	5.69973+	0	1.00000+	0	0.0	+	0	1.00000+	1	0.0	+	02945	3102	1764
1.25000+	1	1.40000+	1	1.75000+	1	1.40000+	1	2.00000+	1	7.00000+	02945	3102		1765	
2.60000+	1	0.0	+	4.00000+	1	0.0	+	4.25000+	1	3.30000+	02945	3102		1766	
5.00000+	1	3.30000+	0	5.25000+	1	1.00000+	0	5.75000+	1	1.00000+	02945	3102		1767	
6.00000+	1	4.00000+	0	6.25000+	1	9.00000+	0	6.70000+	1	9.00000+	02945	3102		1768	
6.93000+	1	0.0	+	8.00000+	1	0.0	+	8.25000+	1	2.60000+	02945	3102		1769	
8.75000+	1	2.60000+	0	9.25000+	1	5.00000-	1	9.50000+	1	5.00000-	12945	3102		1770	
1.00000+	2	0.0	+	1.00000+	2	0.0	+	9.50000+	3	0.0	+	02945	3102		1771
1.50000+	4	3.71000-	2	2.50000+	4	3.54000-	2	3.00000+	4	3.08500-	22945	3102		1772	
3.00000+	4	5.41400-	1	3.50000+	4	4.59300-	1	4.50000+	4	5.44200-	12945	3102		1773	
5.50000+	4	4.77900-	1	6.30000+	4	4.13500-	1	7.50000+	4	4.41400-	12945	3102		1774	
8.50000+	4	3.16000-	1	9.50000+	4	3.45200-	1	1.50000+	5	3.10100-	12945	3102		1775	
2.50000+	5	2.68615-	1	2.75000+	5	2.64760-	1	3.00000+	5	2.59475-	12945	3102		1776	
3.01255+	5	2.59476-	1	3.25000+	5	2.59259-	1	3.36402+	5	2.60898-	12945	3102		1777	
3.50000+	5	2.62086-	1	3.69540+	5	2.60076-	1	3.75000+	5	2.59721-	12945	3102		1778	
4.00000+	5	2.56325-	1	4.46862+	5	2.51946-	1	4.50000+	5	2.51680-	12945	3102		1779	
4.92050+	5	2.48781-	1	5.00000+	5	2.48436-	1	5.50000+	5	2.46215-	12945	3102		1780	
6.00000+	5	2.43797-	1	6.50000+	5	2.37712-	1	7.00000+	5	2.30760-	12945	3102		1781	
7.50000+	5	2.22884-	1	8.00000+	5	2.15890-	1	8.50000+	5	2.12059-	12945	3102		1782	
9.00000+	5	2.11113-	1	9.50000+	5	2.08339-	1	1.00000+	6	2.06545-	12945	3102		1783	
1.10000+	6	1.98304-	1	1.20000+	6	1.87284-	1	1.30000+	6	1.76946-	12945	3102		1784	
1.40000+	6	1.68672-	1	1.50000+	6	1.61542-	1	1.60000+	6	1.55628-	12945	3102		1785	
1.70000+	6	1.49909-	1	1.80000+	6	1.44503-	1	2.00000+	6	1.30577-	12945	3102		1786	
2.25000+	6	1.11508-	1	2.50000+	6	9.32067-	2	2.75000+	6	7.59100-	22945	3102		1787	
3.00000+	6	6.13024-	2	3.50000+	6	3.87655-	2	4.00000+	6	2.34458-	22945	3102		1788	
4.50000+	6	1.36647-	2	5.00000+	6	7.80813-	3	5.50000+	6	4.07830-	32945	3102		1789	
6.00000+	6	1.42437-	3	6.50000+	6	3.82574-	4	7.00000+	6	9.59269-	52945	3102		1790	
7.25000+	6	5.07951-	5	7.50000+	6	2.82165-	5	8.00000+	6	8.74624-	62945	3102		1791	
8.50000+	6	2.73515-	6	9.00000+	6	9.98628-	7	9.50000+	6	3.57146-	72945	3102		1792	
1.00000+	7	1.34826-	7	1.05000+	7	4.74188-	8	1.10000+	7	2.08470-	82945	3102		1793	
1.15000+	7	6.37037-	9	1.20000+	7	4.12647-	9	1.25000+	7	1.09488-	82945	3102		1794	
1.30000+	7	8.05099-	9	1.38000+	7	8.33347-	9	1.45000+	7	6.41359-	92945	3102		1795	
1.50000+	7	6.01347-	9	1.60000+	7	5.97636-	9	1.70000+	7	3.76855-	92945	3102		1796	
1.80000+	7	4.10750-	9	1.90000+	7	4.05553-	9	2.00000+	7	3.80970-	92945	3102		1797	
										2945	3	0		1798	
9.42410+	4	2.38986+	2		0		0		0		02945	3251		1799	

0.0	+ 0	0.0	+ 0	0	0	0	1	1172945	3251	1800				
	117		3	0	0	0	0	02945	3251	1801				
1.00000-	5	2.78956-	3	9.50000+	1	2.91439-	3	1.50000+	2	2.99218-	32945	3251	1802	
2.50000+	2	3.14209-	3	3.50000+	2	3.28469-	3	4.50000+	2	3.42534-	32945	3251	1803	
5.50000+	2	3.56488-	3	6.50000+	2	3.67324-	3	7.50000+	2	3.81431-	32945	3251	1804	
8.50000+	2	3.94926-	3	9.50000+	2	4.11943-	3	1.50000+	3	4.90750-	32945	3251	1805	
2.50000+	3	6.33562-	3	3.50000+	3	7.86181-	3	4.50000+	3	9.33732-	32945	3251	1806	
5.50000+	3	1.07623-	2	6.50000+	3	1.23240-	2	7.50000+	3	1.37381-	22945	3251	1807	
8.50000+	3	1.53511-	2	9.50000+	3	1.67751-	2	1.00000+	4	1.75140-	22945	3251	1808	
1.50000+	4	2.51780-	2	2.00000+	4	3.27827-	2	2.50000+	4	4.03006-	22945	3251	1809	
3.00000+	4	4.78030-	2	3.50000+	4	5.52412-	2	4.00000+	4	6.25531-	22945	3251	1810	
4.19749+	4	6.48726-	2	4.50000+	4	6.97440-	2	5.00000+	4	7.67202-	22945	3251	1811	
5.50000+	4	8.36503-	2	6.00000+	4	9.03803-	2	6.30000+	4	9.44764-	22945	3251	1812	
6.80000+	4	1.01559-	1	7.50000+	4	1.10294-	1	8.00000+	4	1.16674-	12945	3251	1813	
8.50000+	4	1.22920-	1	9.00000+	4	1.28963-	1	9.43933+	4	1.34168-	12945	3251	1814	
9.50000+	4	1.34910-	1	1.00000+	5	1.40769-	1	1.25000+	5	1.68400-	12945	3251	1815	
1.50000+	5	1.92810-	1	1.62176+	5	2.03882-	1	1.71515+	5	2.12000-	12945	3251	1816	
1.75000+	5	2.14995-	1	2.00000+	5	2.35143-	1	2.24034+	5	2.52819-	12945	3251	1817	
2.25000+	5	2.53540-	1	2.30962+	5	2.57771-	1	2.43716+	5	2.66474-	12945	3251	1818	
2.50000+	5	2.70667-	1	2.75000+	5	2.86072-	1	3.00000+	5	3.00342-	12945	3251	1819	
3.01255+	5	3.01018-	1	3.25000+	5	3.13267-	1	3.36402+	5	3.18746-	12945	3251	1820	
3.50000+	5	3.25014-	1	3.69540+	5	3.33817-	1	3.75000+	5	3.36178-	12945	3251	1821	
4.00000+	5	3.46643-	1	4.46862+	5	3.64352-	1	4.50000+	5	3.65451-	12945	3251	1822	
4.92050+	5	3.79400-	1	5.00000+	5	3.81860-	1	5.50000+	5	3.96250-	12945	3251	1823	
6.00000+	5	4.09039-	1	6.50000+	5	4.20736-	1	7.00000+	5	4.31352-	12945	3251	1824	
7.50000+	5	4.41061-	1	8.00000+	5	4.49877-	1	8.50000+	5	4.57802-	12945	3251	1825	
9.00000+	5	4.64998-	1	9.50000+	5	4.71938-	1	1.00000+	6	4.78536-	12945	3251	1826	
1.10000+	6	4.91671-	1	1.20000+	6	5.05032-	1	1.30000+	6	5.18896-	12945	3251	1827	
1.40000+	6	5.33427-	1	1.50000+	6	5.48697-	1	1.60000+	6	5.64546-	12945	3251	1828	
1.70000+	6	5.80761-	1	1.80000+	6	5.97036-	1	2.00000+	6	6.28767-	12945	3251	1829	
2.25000+	6	6.64698-	1	2.50000+	6	6.95084-	1	2.75000+	6	7.19910-	12945	3251	1830	
3.00000+	6	7.39855-	1	3.50000+	6	7.68535-	1	4.00000+	6	7.86768-	12945	3251	1831	
4.50000+	6	7.97791-	1	5.00000+	6	8.03307-	1	5.50000+	6	8.04610-	12945	3251	1832	
6.00000+	6	8.02988-	1	6.50000+	6	7.99560-	1	7.00000+	6	7.94973-	12945	3251	1833	
7.25000+	6	7.92344-	1	7.50000+	6	7.89536-	1	8.00000+	6	7.83581-	12945	3251	1834	
8.50000+	6	7.77623-	1	9.00000+	6	7.72325-	1	9.50000+	6	7.68402-	12945	3251	1835	
1.00000+	7	7.66506-	1	1.05000+	7	7.67069-	1	1.10000+	7	7.70217-	12945	3251	1836	
1.15000+	7	7.75716-	1	1.20000+	7	7.83054-	1	1.25000+	7	7.91592-	12945	3251	1837	
1.30000+	7	8.00725-	1	1.38000+	7	8.15481-	1	1.45000+	7	8.27846-	12945	3251	1838	
1.50000+	7	8.36191-	1	1.60000+	7	8.51510-	1	1.70000+	7	8.65004-	12945	3251	1839	
1.80000+	7	8.76846-	1	1.90000+	7	8.87091-	1	2.00000+	7	8.95702-	12945	3251	1840	
								2945	3	0	1841			
								2945	0	0	1842			
9.42410+	4	2.38986+	2		1		1	0	02945	4	2	1843		
0.0	+ 0	2.38986+	2	0	0		2	441	202945	4	2	1844		
1.00000+	0	2.78956-	3	3.50798-	6	2.58985-	11	0.0	+ 0	0.0	+ 02945	4	2	1845
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1846
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1847
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	9.99989-	1	5.02119-	32945	4	2	1848
1.20054-	5	1.36783-	8	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1849
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1850
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1851
0.0	+ 0	-2.78952-	3	9.99972-	1	7.17306-	3	2.50525-	5	5.12401-	82945	4	2	1852
2.05433-	9	1.02510-	9	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1853
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1854
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	1.05051-	5	-5.02108-	32945	4	2	1855
9.99946-	1	9.29830-	3	4.24900-	5	1.21285-	7	-6.69447-	8	-6.59395-	102945	4	2	1856
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1857
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1858
0.0	+ 0	-4.18636-	8	2.40113-	5	-7.17284-	3	9.99911-	1	1.14113-	22945	4	2	1859
6.42415-	5	2.29489-	7	-3.60758-	8	1.46997-	9	0.0	+ 0	0.0	+ 02945	4	2	1860
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1861
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	1.70306-	10	-1.11635-	72945	4	2	1862
4.16857-	5	-9.29793-	3	9.99868-	1	1.35178-	2	9.05063-	5	3.92256-	72945	4	2	1863
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0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1865
0.0	+ 0	-6.99662-	13	5.09586-	10	-2.21999-	7	6.36644-	5	-1.14108-	22945	4	2	1866
9.99815-	1	1.56201-	2	1.20978-	4	6.10442-	7	-2.28597-	7	-3.05899-	92945	4	2	1867
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 02945	4	2	1868
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	2.89009-	15	-2.29629-	122945	4	2	1869
1.12542-	9	-3.82516-	7	8.99853-	5	-1.35170-	2	9.99754-	1	1.77198-	22945	4	2	1870
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0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1872
0.0	+ 0-1.19780-17	1.02491-14-5.52536-12	2.13411- 9-6.02451-	72945	4	2	1873			
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0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 4.97514-20-2.63848-	172945	4	2	1876	
2.65203-	14-1.13460-11	3.67010-	9-8.91003-	7 1.55705-	4-1.77184-	22945	4	2	1877	
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0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1879	
0.0	+ 0 0.0	+ 0 7.95549-20-7.69789-	17 5.83042-14-2.10146-	112945	4	2	1880			
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0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1883	
2.50142-	19-1.69722-16	1.15150-13-3.61273-	11 8.95656-	9-1.71063-	62945	4	2	1884		
2.38890-	4-2.19116-	2 9.99421-	1 2.61028-	2 3.39806-	4 2.92338-	62945	4	2	1885	
-9.97883-	8 2.35505-	10 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1886	
0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 5.70706-	19-4.88415-	162945	4	2	1887	
2.10321-	13-5.86603-11	1.30710-	8-2.26002-	6 2.87035-	4-2.40063-	22945	4	2	1888	
9.99316-	1 2.81959-	2 3.96633-	4 3.69505-	6-1.39703-	7-4.42693-	92945	4	2	1889	
0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1890	
0.0	+ 0 0.0	+ 0 1.47015-	18-1.05352-	15 3.61633-	13-9.10107-	112945	4	2	1891	
1.84408-	8-2.91465-	6 3.39550-	4-2.60999-	2 9.99202-	1 3.02883-	22945	4	2	1892	
4.57826-	4 4.58342-	6 8.14397-	10 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1893	
0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1894	
3.02919-	18-2.00445-15	5.92377-13-1.36036-	10 2.52957-	8-3.68368-	62945	4	2	1895		
3.96433-	4-2.81926-	2 9.99080-	1 3.23800-	2 5.23581-	4 5.61806-	62945	4	2	1896	
-4.70972-	8-1.71328-	9 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1897	
0.0	+ 0 0.0	+ 0 0.0	+ 0-1.03349-	20 5.59904-	18-3.53532-	152945	4	2	1898	
9.32327-	13-1.97095-10	3.38846-	8-4.57625-	6 4.57684-	4-3.02845-	22945	4	2	1899	
9.98949-	1 3.44710-	2 5.93500-	4 6.78362-	6-5.36327-	8-4.59997-	92945	4	2	1900	
0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1901	
0.0	+ 0-1.91418-	20 9.66192-	18-5.90980-	15 1.41882-	12-2.78085-	102945	4	2	1902	
4.44755-	8-5.60149-	6 5.23303-	4-3.23756-	2 9.98809-	1 3.65613-	22945	4	2	1903	
6.67830-	4 8.09895-	6-5.08272-	8 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1904	
0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0-3.30337-	202945	4	2	1905	
1.58648-	17-9.47814-15	2.09795-12-3.83487-	10 5.73554-	8-6.76855-	62945	4	2	1906		
5.93288-	4-3.44660-	2 9.98660-	1 3.86510-	2 7.46534-	4 9.57660-	62945	4	2	1907	
0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1908	
0.0	+ 0 0.0	+ 0 0.0	+ 0-5.41790-	20 2.50579-	17-1.46968-	142945	4	2	1909	
3.02579-	12-5.18400-10	7.28307-	8-8.08654-	6 6.67638-	4-3.65557-	22945	4	2	1910	
9.98502-	1 4.07400-	2 8.29601-	4 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1911	
0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1912	
0.0	+ 0-8.54156-	20 3.83391-	17-2.21507-	14 4.26977-	12-6.88585-	102945	4	2	1913	
9.12265-	8-9.56460-	6 7.46353-	4-3.86447-	2 9.98336-	1 4.28284-	22945	4	2	1914	
0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 02945	4	2	1915	
0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 0-1.30393-	192945	4	2	1916	
5.71039-	17-3.25784-14	5.91006-12-9.00502-	10 1.12887-	7-1.12119-	52945	4	2	1917		
8.29430-	4-4.07330-	2 9.98161-	1			2945	4	2	1918	
0.0	+ 0 0.0	+ 0	0	0	1	1162945	4	2	1919	
	116	2	0	0	0	02945	4	2	1920	
0.0	+ 0 1.00000-	5	0	0	2	02945	4	2	1921	
0.0	+ 0 0.0	+ 0				2945	4	2	1922	
0.0	+ 0 9.50000+	1	0	0	4	02945	4	2	1923	
1.24829-	4 8.42904-	9 0.0	+ 0 0.0	+ 0		2945	4	2	1924	
0.0	+ 0 1.50000+	2	0	0	4	02945	4	2	1925	
2.02614-	4 1.92312-	8 0.0	+ 0 0.0	+ 0		2945	4	2	1926	
0.0	+ 0 2.50000+	2	0	0	4	02945	4	2	1927	
3.52530-	4 4.40121-	8 0.0	+ 0 0.0	+ 0		2945	4	2	1928	
0.0	+ 0 3.50000+	2	0	0	4	02945	4	2	1929	
4.95133-	4 8.65000-	8 0.0	+ 0 0.0	+ 0		2945	4	2	1930	
0.0	+ 0 4.50000+	2	0	0	4	02945	4	2	1931	
6.35779-	4 1.46108-	7 0.0	+ 0 0.0	+ 0		2945	4	2	1932	
0.0	+ 0 5.50000+	2	0	0	4	02945	4	2	1933	
7.75321-	4 2.24425-	7 0.0	+ 0 0.0	+ 0		2945	4	2	1934	
0.0	+ 0 6.50000+	2	0	0	4	02945	4	2	1935	
8.83680-	4 3.83769-	7 0.0	+ 0 0.0	+ 0		2945	4	2	1936	
0.0	+ 0 7.50000+	2	0	0	4	02945	4	2	1937	
1.02476-	3 5.05159-	7 0.0	+ 0 0.0	+ 0		2945	4	2	1938	
0.0	+ 0 8.50000+	2	0	0	4	02945	4	2	1939	
1.15971-	3 6.61358-	7 0.0	+ 0 0.0	+ 0		2945	4	2	1940	
0.0	+ 0 9.50000+	2	0	0	4	02945	4	2	1941	
1.32988-	3 7.31035-	7 0.0	+ 0 0.0	+ 0		2945	4	2	1942	
0.0	+ 0 1.50000+	3	0	0	4	02945	4	2	1943	

2.11797-	3	1.82392-	6	0.0	+	0	0.0	+	0			2945	4	2	1944	
0.0	+	0	2.50000+	3		0			0	4		02945	4	2	1945	
3.54610-	3	5.28355-	6	0.0	+	0	0.0	+	0			2945	4	2	1946	
0.0	+	0	3.50000+	3		0			0	4		02945	4	2	1947	
5.07233-	3	9.46959-	6	0.0	+	0	0.0	+	0			2945	4	2	1948	
0.0	+	0	4.50000+	3		0			0	6		02945	4	2	1949	
6.54791-	3	3.18273-	5	6.88587-	8	9.20358-	11	0.0	+	0	0.0	+	02945	4	2	1950
0.0	+	0	5.50000+	3		0			0	6		02945	4	2	1951	
7.97300-	3	4.90200-	5	1.24784-	7	2.05769-	10	0.0	+	0	0.0	+	02945	4	2	1952
0.0	+	0	6.50000+	3		0			0	6		02945	4	2	1953	
9.53471-	3	6.67683-	5	2.07874-	7	4.02229-	10	0.0	+	0	0.0	+	02945	4	2	1954
0.0	+	0	7.50000+	3		0			0	6		02945	4	2	1955	
1.09489-	2	9.15560-	5	3.16535-	7	7.13460-	10	0.0	+	0	0.0	+	02945	4	2	1956
0.0	+	0	8.50000+	3		0			0	6		02945	4	2	1957	
1.25620-	2	1.13860-	4	4.65701-	7	1.17881-	9	0.0	+	0	0.0	+	02945	4	2	1958
0.0	+	0	9.50000+	3		0			0	6		02945	4	2	1959	
1.39860-	2	1.45621-	4	6.46069-	7	1.84213-	9	0.0	+	0	0.0	+	02945	4	2	1960
0.0	+	0	1.00000+	4		0			0	6		02945	4	2	1961	
1.47250-	2	1.61955-	4	7.53367-	7	2.26445-	9	0.0	+	0	0.0	+	02945	4	2	1962
0.0	+	0	1.50000+	4		0			0	6		02945	4	2	1963	
2.23896-	2	3.56540-	4	2.55528-	6	1.14916-	8	0.0	+	0	0.0	+	02945	4	2	1964
0.0	+	0	2.00000+	4		0			0	6		02945	4	2	1965	
2.99952-	2	6.28820-	4	6.05255-	6	3.63830-	8	0.0	+	0	0.0	+	02945	4	2	1966
0.0	+	0	2.50000+	4		0			0	6		02945	4	2	1967	
3.75142-	2	9.78336-	4	1.17832-	5	8.89108-	8	0.0	+	0	0.0	+	02945	4	2	1968
0.0	+	0	3.00000+	4		0			0	6		02945	4	2	1969	
4.50178-	2	1.39466-	3	2.03077-	5	1.84342-	7	0.0	+	0	0.0	+	02945	4	2	1970
0.0	+	0	3.50000+	4		0			0	6		02945	4	2	1971	
5.24574-	2	1.87738-	3	3.21514-	5	3.41276-	7	0.0	+	0	0.0	+	02945	4	2	1972
0.0	+	0	4.00000+	4		0			0	8		02945	4	2	1973	
5.97710-	2	2.42951-	3	4.92677-	5	6.52190-	7	7.00025-	10	5.89234-	12	2945	4	2	1974	
0.0	+	0	0.0	+	0							2945	4	2	1975	
0.0	+	0	4.50000+	4		0			0	8		02945	4	2	1976	
6.69637-	2	3.04940-	3	6.99392-	5	1.04276-	6	1.25809-	9	1.20600-	11	2945	4	2	1977	
0.0	+	0	0.0	+	0							2945	4	2	1978	
0.0	+	0	5.00000+	4		0			0	8		02945	4	2	1979	
7.39418-	2	3.74156-	3	9.55025-	5	1.58912-	6	2.13876-	9	2.33989-	11	2945	4	2	1980	
0.0	+	0	0.0	+	0							2945	4	2	1981	
0.0	+	0	5.50000+	4		0			0	8		02945	4	2	1982	
8.08741-	2	4.48410-	3	1.26648-	4	2.32302-	6	3.47342-	9	4.22878-	11	2945	4	2	1983	
0.0	+	0	0.0	+	0							2945	4	2	1984	
0.0	+	0	6.00000+	4		0			0	8		02945	4	2	1985	
8.76064-	2	5.29173-	3	1.63554-	4	3.28229-	6	5.32563-	9	7.18406-	11	2945	4	2	1986	
0.0	+	0	0.0	+	0							2945	4	2	1987	
0.0	+	0	6.30000+	4		0			0	8		02945	4	2	1988	
9.17040-	2	5.78989-	3	1.88988-	4	3.98026-	6	6.80159-	9	9.58773-	11	2945	4	2	1989	
0.0	+	0	0.0	+	0							2945	4	2	1990	
0.0	+	0	6.80000+	4		0			0	8		02945	4	2	1991	
9.87893-	2	6.62708-	3	2.37699-	4	5.36828-	6	1.00027-	8	1.45716-	10	2945	4	2	1992	
0.0	+	0	0.0	+	0							2945	4	2	1993	
0.0	+	0	7.50000+	4		0			0	8		02945	4	2	1994	
1.07528-	1	7.98293-	3	3.15745-	4	7.92763-	6	1.62803-	8	2.73153-	10	2945	4	2	1995	
0.0	+	0	0.0	+	0							2945	4	2	1996	
0.0	+	0	8.00000+	4		0			0	8		02945	4	2	1997	
1.13911-	1	8.98067-	3	3.81485-	4	1.02263-	5	2.25068-	8	4.03303-	10	2945	4	2	1998	
0.0	+	0	0.0	+	0							2945	4	2	1999	
0.0	+	0	8.50000+	4		0			0	8		02945	4	2	2000	
1.20159-	1	1.00260-	2	4.55378-	4	1.29854-	5	3.04741-	8	5.81551-	10	2945	4	2	2001	
0.0	+	0	0.0	+	0							2945	4	2	2002	
0.0	+	0	9.00000+	4		0			0	8		02945	4	2	2003	
1.26206-	1	1.11213-	2	5.37525-	4	1.62633-	5	4.05255-	8	8.25025-	10	2945	4	2	2004	
0.0	+	0	0.0	+	0							2945	4	2	2005	
0.0	+	0	9.43933+	4		0			0	8		02945	4	2	2006	
1.31414-	1	1.21184-	2	6.17046-	4	1.96173-	5	5.14525-	8	1.10676-	9	2945	4	2	2007	
0.0	+	0	0.0	+	0							2945	4	2	2008	
0.0	+	0	9.50000+	4		0			0	8		02945	4	2	2009	
1.32156-	1	1.22563-	2	6.28730-	4	2.01137-	5	5.31512-	8	1.14949-	9	2945	4	2	2010	
0.0	+	0	0.0	+	0							2945	4	2	2011	
0.0	+	0	1.00000+	5		0			0	8		02945	4	2	2012	
1.38018-	1	1.34284-	2	7.29353-	4	2.45896-	5	6.86674-	8	1.56684-	9	2945	4	2	2013	
0.0	+	0	0.0	+	0							2945	4	2	2014	
0.0	+	0	1.25000+	5		0			0	8		02945	4	2	2015	

1.65668-	1	1.98198-	2	1.38471-	3	5.87466-	5	2.09237-	7	6.00819-	92945	4	2	2016	
0.0	+	0.0	+								2945	4	2	2017	
0.0	+	1.50000+	5		0		0		8		02945	4	2	2018	
1.90098-	1	2.69479-	2	2.31455-	3	1.18958-	4	5.19579-	7	1.82950-	82945	4	2	2019	
0.0	+	0.0	+								2945	4	2	2020	
0.0	+	1.62176+	5		0		0		8		02945	4	2	2021	
2.01180-	1	3.06173-	2	2.87826-	3	1.60572-	4	7.67258-	7	2.93589-	82945	4	2	2022	
0.0	+	0.0	+								2945	4	2	2023	
0.0	+	1.71515+	5		0		0		8		02945	4	2	2024	
2.09306-	1	3.35037-	2	3.36214-	3	1.98962-	4	1.01512-	6	4.12277-	82945	4	2	2025	
0.0	+	0.0	+								2945	4	2	2026	
0.0	+	1.75000+	5		0		0		8		02945	4	2	2027	
2.12305-	1	3.46002-	2	3.55521-	3	2.14886-	4	1.12288-	6	4.65872-	82945	4	2	2028	
0.0	+	0.0	+								2945	4	2	2029	
0.0	+	2.00000+	5		0		0		8		02945	4	2	2030	
2.32474-	1	4.26210-	2	5.13127-	3	3.57126-	4	2.19476-	6	1.04709-	72945	4	2	2031	
0.0	+	0.0	+								2945	4	2	2032	
0.0	+	2.24034+	5		0		0		8		02945	4	2	2033	
2.50173-	1	5.05499-	2	6.98048-	3	5.47888-	4	3.88791-	6	2.08025-	72945	4	2	2034	
0.0	+	0.0	+								2945	4	2	2035	
0.0	+	2.25000+	5		0		0		8		02945	4	2	2036	
2.50895-	1	5.08785-	2	7.06316-	3	5.56859-	4	3.97478-	6	2.13570-	72945	4	2	2037	
0.0	+	0.0	+								2945	4	2	2038	
0.0	+	2.30962+	5		0		0		8		02945	4	2	2039	
2.55131-	1	5.28802-	2	7.58047-	3	6.14353-	4	4.53741-	6	2.50124-	72945	4	2	2040	
0.0	+	0.0	+								2945	4	2	2041	
0.0	+	2.43716+	5		0		0		8		02945	4	2	2042	
2.63846-	1	5.71672-	2	8.75698-	3	7.51092-	4	5.96052-	6	3.45724-	72945	4	2	2043	
0.0	+	0.0	+								2945	4	2	2044	
0.0	+	2.50000+	5		0		0		8		02945	4	2	2045	
2.68046-	1	5.92923-	2	9.37468-	3	8.25851-	4	6.78557-	6	4.02879-	72945	4	2	2046	
0.0	+	0.0	+								2945	4	2	2047	
0.0	+	2.75000+	5		0		0		10		02945	4	2	2048	
2.83474-	1	6.76954-	2	1.20602-	2	1.18892-	3	1.50911-	5	1.44079-	62945	4	2	2049	
7.64196-	9	1.40156-	10	0.0	+	0.0	+				2945	4	2	2050	
0.0	+	3.00000+	5		0		0		10		02945	4	2	2051	
2.97768-	1	7.60582-	2	1.51308-	2	1.63677-	3	2.33774-	5	2.40723-	62945	4	2	2052	
1.43050-	8	2.80579-	10	0.0	+	0.0	+				2945	4	2	2053	
0.0	+	3.01255+	5		0		0		10		02945	4	2	2054	
2.98445-	1	7.64744-	2	1.52946-	2	1.66193-	3	2.38721-	5	2.46724-	62945	4	2	2055	
1.47245-	8	2.90013-	10	0.0	+	0.0	+				2945	4	2	2056	
0.0	+	3.25000+	5		0		0		10		02945	4	2	2057	
3.10716-	1	8.42711-	2	1.85719-	2	2.18940-	3	3.49864-	5	3.85569-	62945	4	2	2058	
2.54022-	8	5.29622-	10	0.0	+	0.0	+				2945	4	2	2059	
0.0	+	3.36402+	5		0		0		10		02945	4	2	2060	
3.16205-	1	8.79499-	2	2.02616-	2	2.47919-	3	4.16317-	5	4.72178-	62945	4	2	2061	
3.25065-	8	6.96212-	10	0.0	+	0.0	+				2945	4	2	2062	
0.0	+	3.50000+	5		0		0		10		02945	4	2	2063	
3.22485-	1	9.22816-	2	2.23769-	2	2.85765-	3	5.08599-	5	5.95666-	62945	4	2	2064	
4.32057-	8	9.52564-	10	0.0	+	0.0	+				2945	4	2	2065	
0.0	+	3.69540+	5		0		0		10		02945	4	2	2066	
3.31305-	1	9.84434-	2	2.56251-	2	3.47011-	3	6.70142-	5	8.18438-	62945	4	2	2067	
6.38487-	8	1.46454-	9	0.0	+	0.0	+				2945	4	2	2068	
0.0	+	3.75000+	5		0		0		10		02945	4	2	2069	
3.33672-	1	1.00140-	1	2.65725-	2	3.65599-	3	7.22071-	5	8.91647-	62945	4	2	2070	
7.09370-	8	1.64429-	9	0.0	+	0.0	+				2945	4	2	2071	
0.0	+	4.00000+	5		0		0		10		02945	4	2	2072	
3.44157-	1	1.07795-	1	3.11392-	2	4.59471-	3	1.00375-	4	1.29913-	52945	4	2	2073	
1.12947-	7	2.73834-	9	0.0	+	0.0	+				2945	4	2	2074	
0.0	+	4.46862+	5		0		0		10		02945	4	2	2075	
3.61904-	1	1.21488-	1	4.06347-	2	6.76616-	3	1.77083-	4	2.47418-	52945	4	2	2076	
2.50924-	7	6.55458-	9	0.0	+	0.0	+				2945	4	2	2077	
0.0	+	4.50000+	5		0		0		10		02945	4	2	2078	
3.63006-	1	1.22373-	1	4.13116-	2	6.93183-	3	1.83572-	4	2.57607-	52945	4	2	2079	
2.63899-	7	6.92490-	9	0.0	+	0.0	+				2945	4	2	2080	
0.0	+	4.92050+	5		0		0		12		02945	4	2	2081	
3.76987-	1	1.33863-	1	5.08654-	2	9.41986-	3	2.99711-	4	4.59506-	52945	4	2	2082	
9.97030-	7	7.91121-	8	1.04785-	9	4.36099-	11	0.0	+	0.0	+	02945	4	2	2083
0.0	+	5.00000+	5		0		0		12		02945	4	2	2084	
3.79453-	1	1.35957-	1	5.27654-	2	9.94665-	3	3.25483-	4	5.04170-	52945	4	2	2085	
1.11889-	6	8.98581-	8	1.21438-	9	5.11008-	11	0.0	+	0.0	+	02945	4	2	2086
0.0	+	5.50000+	5		0		0		12		02945	4	2	2087	

3.93878-	1	1.48590-	1	6.53408-	2	1.36963-	2	5.31869-	4	8.73426-	52945	4	2	2088	
2.22072-	6	1.91538-	7	2.91873-	9	1.31253-	10	0.0	+ 0	0.0	+	02945	4	2	2089
0.0	+ 0	6.00000+	5	0	0	0	0	12				02945	4	2	2090
4.06701-	1	1.60413-	1	7.88799-	2	1.82350-	2	8.32798-	4	1.43668-	42945	4	2	2091	
4.14360-	6	3.80983-	7	6.48004-	9	3.09712-	10	0.0	+ 0	0.0	+	02945	4	2	2092
0.0	+ 0	6.50000+	5	0	0	0	0	12				02945	4	2	2093
4.18428-	1	1.71657-	1	9.32526-	2	2.36109-	2	1.25750-	3	2.26188-	42945	4	2	2094	
7.34199-	6	7.14721-	7	1.34655-	8	6.79902-	10	0.0	+ 0	0.0	+	02945	4	2	2095
0.0	+ 0	7.00000+	5	0	0	0	0	12				02945	4	2	2096
4.29074-	1	1.82436-	1	1.08231-	1	2.98395-	2	1.83839-	3	3.42830-	42945	4	2	2097	
1.24295-	5	1.27405-	6	2.64016-	8	1.40135-	9	0.0	+ 0	0.0	+	02945	4	2	2098
0.0	+ 0	7.50000+	5	0	0	0	0	12				02945	4	2	2099
4.38813-	1	1.92924-	1	1.23625-	1	3.69274-	2	2.61126-	3	5.02680-	42945	4	2	2100	
2.02237-	5	2.17348-	6	4.92397-	8	2.73847-	9	0.0	+ 0	0.0	+	02945	4	2	2101
0.0	+ 0	8.00000+	5	0	0	0	0	12				02945	4	2	2102
4.47658-	1	2.03228-	1	1.39189-	1	4.48477-	2	3.61289-	3	7.15630-	42945	4	2	2103	
3.17534-	5	3.56542-	6	8.78203-	8	5.10342-	9	0.0	+ 0	0.0	+	02945	4	2	2104
0.0	+ 0	8.50000+	5	0	0	0	0	12				02945	4	2	2105
4.55611-	1	2.13430-	1	1.54676-	1	5.35484-	2	4.87897-	3	9.92015-	42945	4	2	2106	
4.82762-	5	5.64762-	6	1.50500-	7	9.12033-	9	0.0	+ 0	0.0	+	02945	4	2	2107
0.0	+ 0	9.00000+	5	0	0	0	0	12				02945	4	2	2108
4.62835-	1	2.23647-	1	1.69898-	1	6.29697-	2	6.44450-	3	1.34258-	32945	4	2	2109	
7.13003-	5	8.66810-	6	2.48866-	7	1.56905-	8	0.0	+ 0	0.0	+	02945	4	2	2110
0.0	+ 0	9.50000+	5	0	0	0	0	12				02945	4	2	2111
4.69805-	1	2.34100-	1	1.84814-	1	7.30827-	2	8.34683-	3	1.77861-	32945	4	2	2112	
1.02636-	4	1.29364-	5	3.98706-	7	2.60933-	8	0.0	+ 0	0.0	+	02945	4	2	2113
0.0	+ 0	1.00000+	6	0	0	0	0	12				02945	4	2	2114
4.76433-	1	2.44769-	1	1.99216-	1	8.37811-	2	1.06119-	2	2.31027-	32945	4	2	2115	
1.44277-	4	1.88172-	5	6.20567-	7	4.20779-	8	0.0	+ 0	0.0	+	02945	4	2	2116
0.0	+ 0	1.10000+	6	0	0	0	0	12				02945	4	2	2117
4.89629-	1	2.67100-	1	2.26290-	1	1.06648-	1	1.63270-	2	3.70035-	32945	4	2	2118	
2.67810-	4	3.72207-	5	1.39368-	6	1.00940-	7	0.0	+ 0	0.0	+	02945	4	2	2119
0.0	+ 0	1.20000+	6	0	0	0	0	12				02945	4	2	2120
5.03056-	1	2.90598-	1	2.50543-	1	1.30763-	1	2.36870-	2	5.57700-	32945	4	2	2121	
4.61974-	4	6.80788-	5	2.86664-	6	2.20561-	7	0.0	+ 0	0.0	+	02945	4	2	2122
0.0	+ 0	1.30000+	6	0	0	0	0	14				02945	4	2	2123
5.16987-	1	3.14851-	1	2.71724-	1	1.55240-	1	3.26553-	2	7.98517-	32945	4	2	2124	
7.54687-	4	1.16655-	4	6.84706-	6	4.36653-	7	1.53506-	8	1.63061-	102945	4	2	2125	
0.0	+ 0	0.0	+ 0	0	0	0	0	14				2945	4	2	2126
0.0	+ 0	1.40000+	6	0	0	0	0	14				02945	4	2	2127
5.31586-	1	3.39309-	1	2.89929-	1	1.79266-	1	4.30487-	2	1.09178-	22945	4	2	2128	
1.15810-	3	1.89037-	4	1.22245-	5	8.25140-	7	3.18935-	8	3.80298-	102945	4	2	2129	
0.0	+ 0	0.0	+ 0	0	0	0	0	14				2945	4	2	2130
0.0	+ 0	1.50000+	6	0	0	0	0	14				02945	4	2	2131
5.46924-	1	3.63446-	1	3.05543-	1	2.02192-	1	5.46106-	2	1.43600-	22945	4	2	2132	
1.69573-	3	2.91731-	4	2.06647-	5	1.47267-	6	6.22810-	8	8.29731-	102945	4	2	2133	
0.0	+ 0	0.0	+ 0	0	0	0	0	14				2945	4	2	2134
0.0	+ 0	1.60000+	6	0	0	0	0	14				02945	4	2	2135
5.62838-	1	3.86756-	1	3.19023-	1	2.23534-	1	6.70204-	2	1.82672-	22945	4	2	2136	
2.38419-	3	4.31699-	4	3.33320-	5	2.50302-	6	1.15409-	7	1.71095-	92945	4	2	2137	
0.0	+ 0	0.0	+ 0	0	0	0	0	14				2945	4	2	2138
0.0	+ 0	1.70000+	6	0	0	0	0	14				02945	4	2	2139
5.79114-	1	4.08872-	1	3.30862-	1	2.43006-	1	7.99496-	2	2.25805-	22945	4	2	2140	
3.23660-	3	6.16142-	4	5.16200-	5	4.07922-	6	2.04169-	7	3.35306-	92945	4	2	2141	
0.0	+ 0	0.0	+ 0	0	0	0	0	14				2945	4	2	2142
0.0	+ 0	1.80000+	6	0	0	0	0	14				02945	4	2	2143
5.95447-	1	4.29532-	1	3.41487-	1	2.60472-	1	9.30865-	2	2.72326-	22945	4	2	2144	
4.26226-	3	8.52420-	4	7.71830-	5	6.41339-	6	3.47270-	7	6.29477-	92945	4	2	2145	
0.0	+ 0	0.0	+ 0	0	0	0	0	14				2945	4	2	2146
0.0	+ 0	2.00000+	6	0	0	0	0	14				02945	4	2	2147
6.27281-	1	4.66138-	1	3.60496-	1	2.89543-	1	1.18995-	1	3.72900-	22945	4	2	2148	
6.85545-	3	1.51057-	3	1.58082-	4	1.45122-	5	9.09247-	7	1.98541-	82945	4	2	2149	
0.0	+ 0	0.0	+ 0	0	0	0	0	14				2945	4	2	2150
0.0	+ 0	2.25000+	6	0	0	0	0	14				02945	4	2	2151
6.63316-	1	5.03356-	1	3.82192-	1	3.16365-	1	1.49006-	1	5.06712-	22945	4	2	2152	
1.11251-	2	2.75995-	3	3.40422-	4	3.54640-	5	2.60783-	6	7.06114-	82945	4	2	2153	
0.0	+ 0	0.0	+ 0	0	0	0	0	16				2945	4	2	2154
0.0	+ 0	2.50000+	6	0	0	0	0	16				02945	4	2	2155
6.93784-	1	5.32839-	1	4.03066-	1	3.35520-	1	1.75438-	1	6.43611-	22945	4	2	2156	
1.65188-	2	4.60944-	3	6.70587-	4	8.47946-	5	7.09195-	6	6.10869-	72945	4	2	2157	
9.34048-	9	1.67827-	10	0.0	+ 0	0.0	+ 0	0	0	0		2945	4	2	2158
0.0	+ 0	2.75000+	6	0	0	0	0	16				02945	4	2	2159

7.18677-	1	5.56791-	1	4.23561-	1	3.49874-	1	1.98401-	1	7.79707-	22945	4	2	2160	
2.29477-	2	7.15571-	3	1.19638-	3	1.71836-	4	1.60015-	5	1.51245-	62945	4	2	2161	
2.85823-	8	5.08521-	10	0.0	+	0.0	+	0			2945	4	2	2162	
0.0	+	0	3.00000+	6		0		0	16		02945	4	2	2163	
7.38678-	1	5.76951-	1	4.43553-	1	3.61500-	1	2.18516-	1	9.13291-	22945	4	2	2164	
3.02755-	2	1.04895-	2	2.00151-	3	3.26434-	4	3.30788-	5	3.43526-	62945	4	2	2165	
7.96218-	8	1.41062-	9	0.0	+	0.0	+	0			2945	4	2	2166	
0.0	+	0	3.50000+	6		0		0	18		02945	4	2	2167	
7.67450-	1	6.09858-	1	4.80516-	1	3.81135-	1	2.52525-	1	1.17008-	12945	4	2	2168	
4.66333-	2	1.95324-	2	4.80614-	3	1.00233-	3	1.20877-	4	1.58459-	52945	4	2	2169	
1.23313-	6	9.00235-	8	4.37322-	9	1.58779-	10	0.0	+	0.0	+	02945	4	2	2170
0.0	+	0	4.00000+	6		0		0	18		02945	4	2	2171	
7.85753-	1	6.35038-	1	5.10624-	1	3.98946-	1	2.79984-	1	1.41117-	12945	4	2	2172	
6.31318-	2	3.10250-	2	9.72784-	3	2.46983-	3	3.34559-	4	5.41117-	52945	4	2	2173	
4.91930-	6	4.61073-	7	2.26354-	8	8.92104-	10	0.0	+	0.0	+	02945	4	2	2174
0.0	+	0	4.50000+	6		0		0	18		02945	4	2	2175	
7.96825-	1	6.52667-	1	5.32632-	1	4.16042-	1	3.01609-	1	1.64078-	12945	4	2	2176	
7.83392-	2	4.39369-	2	1.73059-	2	5.16943-	3	8.25028-	4	1.60602-	42945	4	2	2177	
1.65940-	5	1.97339-	6	9.79147-	8	4.20785-	9	0.0	+	0.0	+	02945	4	2	2178
0.0	+	0	5.00000+	6		0		0	20		02945	4	2	2179	
8.02371-	1	6.63365-	1	5.48366-	1	4.32777-	1	3.18919-	1	1.86900-	12945	4	2	2180	
9.30260-	2	5.78613-	2	2.80042-	2	9.70072-	3	1.93731-	3	4.35927-	42945	4	2	2181	
5.11006-	5	8.08127-	6	9.91877-	7	4.66606-	8	6.81332-	9	3.28964-	102945	4	2	2182	
0.0	+	0	0.0	+	0						2945	4	2	2183	
0.0	+	0	5.50000+	6		0		0	20		02945	4	2	2184	
8.03688-	1	6.68621-	1	5.60037-	1	4.48514-	1	3.33970-	1	2.09967-	12945	4	2	2185	
1.08764-	1	7.25396-	2	4.19142-	2	1.68331-	2	4.25518-	3	1.03519-	32945	4	2	2186	
1.38329-	4	2.55576-	5	3.41802-	6	1.88976-	7	3.13197-	8	1.61757-	92945	4	2	2187	
0.0	+	0	0.0	+	0						2945	4	2	2188	
0.0	+	0	6.00000+	6		0		0	20		02945	4	2	2189	
8.02069-	1	6.69690-	1	5.67747-	1	4.61197-	1	3.47561-	1	2.31971-	12945	4	2	2190	
1.26115-	1	8.71550-	2	5.82659-	2	2.72064-	2	8.49795-	3	2.17900-	32945	4	2	2191	
3.35820-	4	7.15799-	5	1.03385-	5	6.82366-	7	1.26832-	7	6.82516-	92945	4	2	2192	
0.0	+	0	0.0	+	0						2945	4	2	2193	
0.0	+	0	6.50000+	6		0		0	20		02945	4	2	2194	
7.98634-	1	6.67025-	1	5.69962-	1	4.68609-	1	3.58827-	1	2.50617-	12945	4	2	2195	
1.44188-	1	1.00738-	1	7.55352-	2	4.08005-	2	1.51154-	2	4.07839-	32945	4	2	2196	
7.34860-	4	1.79453-	4	2.77882-	5	2.20946-	6	4.55596-	7	2.49285-	82945	4	2	2197	
0.0	+	0	0.0	+	0						2945	4	2	2198	
0.0	+	0	7.00000+	6		0		0	20		02945	4	2	2199	
7.94029-	1	6.60768-	1	5.65955-	1	4.70254-	1	3.66737-	1	2.64706-	12945	4	2	2200	
1.61818-	1	1.13214-	1	9.24673-	2	5.69523-	2	2.41083-	2	6.92230-	32945	4	2	2201	
1.47381-	3	4.09235-	4	6.69224-	5	6.40415-	6	1.44691-	6	7.89824-	82945	4	2	2202	
0.0	+	0	0.0	+	0						2945	4	2	2203	
0.0	+	0	7.25000+	6		0		0	20		02945	4	2	2204	
7.91388-	1	6.56450-	1	5.61937-	1	4.69301-	1	3.69386-	1	2.70200-	12945	4	2	2205	
1.70314-	1	1.19306-	1	1.00675-	1	6.57470-	2	2.94394-	2	8.77644-	32945	4	2	2206	
2.04234-	3	6.02026-	4	9.96464-	5	1.33745-	5	2.77100-	6	2.30661-	72945	4	2	2207	
1.73324-	8	5.52012-	10								2945	4	2	2208	
0.0	+	0	7.50000+	6		0		0	20		02945	4	2	2209	
7.88566-	1	6.51499-	1	5.56919-	1	4.67473-	1	3.71258-	1	2.74878-	12945	4	2	2210	
1.78568-	1	1.25449-	1	1.08686-	1	7.48683-	2	3.52592-	2	1.09350-	22945	4	2	2211	
2.76518-	3	8.58202-	4	1.44159-	4	2.07602-	5	4.53212-	6	3.69507-	72945	4	2	2212	
2.96660-	8	1.01551-	9								2945	4	2	2213	
0.0	+	0	8.00000+	6		0		0	20		02945	4	2	2214	
7.82581-	1	6.40310-	1	5.44970-	1	4.62043-	1	3.73043-	1	2.82518-	12945	4	2	2215	
1.94387-	1	1.38297-	1	1.24177-	1	9.37786-	2	4.82605-	2	1.62853-	22945	4	2	2216	
4.79686-	3	1.60529-	3	2.74143-	4	4.57593-	5	1.08108-	5	8.28068-	72945	4	2	2217	
7.98143-	8	3.23023-	9								2945	4	2	2218	
0.0	+	0	8.50000+	6		0		0	20		02945	4	2	2219	
7.76590-	1	6.28453-	1	5.31916-	1	4.55199-	1	3.72790-	1	2.88822-	12945	4	2	2220	
2.09204-	1	1.52191-	1	1.38937-	1	1.13018-	1	6.28824-	2	2.31097-	22945	4	2	2221	
7.69481-	3	2.67054-	3	4.62112-	4	8.97353-	5	2.21883-	5	1.56680-	62945	4	2	2222	
1.94752-	7	9.51914-	9								2945	4	2	2223	
0.0	+	0	9.00000+	6		0		0	20		02945	4	2	2224	
7.71260-	1	6.17178-	1	5.19029-	1	4.47686-	1	3.71201-	1	2.94611-	12945	4	2	2225	
2.22967-	1	1.67224-	1	1.53048-	1	1.32008-	1	7.89905-	2	3.15493-	22945	4	2	2226	
1.15105-	2	4.03240-	3	7.16394-	4	1.60529-	4	4.04828-	5	2.63820-	62945	4	2	2227	
4.41950-	7	2.61787-	8								2945	4	2	2228	
0.0	+	0	9.50000+	6		0		0	20		02945	4	2	2229	
7.67311-	1	6.07711-	1	5.07402-	1	4.40168-	1	3.69014-	1	3.00366-	12945	4	2	2230	
2.35751-	1	1.83218-	1	1.66748-	1	1.50256-	1	9.64227-	2	4.18051-	22945	4	2	2231	

1.63618-	2	5.73076-	3	1.06720-	3	2.70971-	4	6.87203-	5	4.23561-	62945	4	2	2232
9.54562-	7	6.76091-	8								2945	4	2	2233
0.0	+	0	1.00000+	7		0		0	20		02945	4	2	2234
7.65396-	1	6.01120-	1	4.98004-	1	4.33294-	1	3.66904-	1	3.06220-	12945	4	2	2235
2.47632-	1	1.99673-	1	1.80241-	1	1.67316-	1	1.14789-	1	5.39954-	22945	4	2	2236
2.24266-	2	7.88367-	3	1.57828-	3	4.46725-	4	1.20054-	4	9.57870-	62945	4	2	2237
1.94731-	6	3.33763-	7								2945	4	2	2238
0.0	+	0	1.05000+	7		0		0	20		02945	4	2	2239
7.65951-	1	5.98090-	1	4.91500-	1	4.27595-	1	3.65384-	1	3.12013-	12945	4	2	2240
2.58598-	1	2.15818-	1	1.93523-	1	1.82756-	1	1.33380-	1	6.79157-	22945	4	2	2241
2.97624-	2	1.05813-	2	2.30122-	3	7.11614-	4	1.92276-	4	1.67359-	52945	4	2	2242
3.99073-	6	7.20787-	7								2945	4	2	2243
0.0	+	0	1.10000+	7		0		0	20		02945	4	2	2244
7.69101-	1	5.98822-	1	4.88207-	1	4.23560-	1	3.64885-	1	3.17562-	12945	4	2	2245
2.68695-	1	2.30945-	1	2.06497-	1	1.96371-	1	1.51404-	1	8.31099-	22945	4	2	2246
3.83039-	2	1.39122-	2	3.31970-	3	1.10751-	3	3.02633-	4	2.95968-	52945	4	2	2247
8.06702-	6	1.50152-	6								2945	4	2	2248
0.0	+	0	1.15000+	7		0		0	20		02945	4	2	2249
7.74612-	1	6.03030-	1	4.88153-	1	4.21641-	1	3.65730-	1	3.22809-	12945	4	2	2250
2.78034-	1	2.44583-	1	2.18993-	1	2.08166-	1	1.68112-	1	9.88927-	22945	4	2	2251
4.78160-	2	1.79133-	2	4.71597-	3	1.68424-	3	4.68913-	4	5.25043-	52945	4	2	2252
1.59469-	5	3.01858-	6								2945	4	2	2253
0.0	+	0	1.20000+	7		0		0	20		02945	4	2	2254
7.81970-	1	6.10102-	1	4.91207-	1	4.22234-	1	3.68166-	1	3.27928-	12945	4	2	2255
2.86820-	1	2.56619-	1	2.30852-	1	2.18349-	1	1.82974-	1	1.14526-	12945	4	2	2256
5.79673-	2	2.25849-	2	6.57479-	3	2.50267-	3	7.15201-	4	9.25360-	52945	4	2	2257
3.06398-	5	5.85251-	6								2945	4	2	2258
0.0	+	0	1.25000+	7		0		0	20		02945	4	2	2259
7.90533-	1	6.19328-	1	4.97195-	1	4.25644-	1	3.72397-	1	3.33294-	12945	4	2	2260
2.95342-	1	2.67273-	1	2.42000-	1	2.27264-	1	1.95783-	1	1.29403-	12945	4	2	2261
6.84374-	2	2.79209-	2	8.98982-	3	3.64342-	3	1.08165-	3	1.69435-	42945	4	2	2262
6.19144-	5	1.11460-	5								2945	4	2	2263
0.0	+	0	1.30000+	7		0		0	20		02945	4	2	2264
7.99697-	1	6.30091-	1	5.05954-	1	4.32023-	1	3.78547-	1	3.39341-	12945	4	2	2265
3.03881-	1	2.76923-	1	2.52426-	1	2.35258-	1	2.06584-	1	1.43111-	12945	4	2	2266
7.89446-	2	3.38844-	2	1.20257-	2	5.16503-	3	1.59098-	3	2.85701-	42945	4	2	2267
1.09587-	4	2.00561-	5								2945	4	2	2268
0.0	+	0	1.38000+	7		0		0	20		02945	4	2	2269
8.14507-	1	6.49455-	1	5.25259-	1	4.48240-	1	3.92486-	1	3.51384-	12945	4	2	2270
3.18259-	1	2.91355-	1	2.67849-	1	2.46926-	1	2.20432-	1	1.62314-	12945	4	2	2271
9.54878-	2	4.46817-	2	1.83006-	2	8.54062-	3	2.79795-	3	6.16103-	42945	4	2	2272
2.49612-	4	4.63874-	5								2945	4	2	2273
0.0	+	0	1.45000+	7		0		0	20		02945	4	2	2274
8.26923-	1	6.67819-	1	5.46572-	1	4.67482-	1	4.08405-	1	3.64784-	12945	4	2	2275
3.31938-	1	3.03790-	1	2.80379-	1	2.56541-	1	2.30069-	1	1.76511-	12945	4	2	2276
1.09476-	1	5.52000-	2	2.51294-	2	1.24273-	2	4.28499-	3	1.10572-	32945	4	2	2277
4.62863-	4	8.60938-	5								2945	4	2	2278
0.0	+	0	1.50000+	7		0		0	20		02945	4	2	2279
8.35305-	1	6.81355-	1	5.63396-	1	4.83027-	1	4.21308-	1	3.75839-	12945	4	2	2280
3.42234-	1	3.12732-	1	2.88847-	1	2.63158-	1	2.35976-	1	1.85327-	12945	4	2	2281
1.19045-	1	6.30652-	2	3.05403-	2	1.55885-	2	5.55904-	3	1.58890-	32945	4	2	2282
6.77456-	4	1.24950-	4								2945	4	2	2283
0.0	+	0	1.60000+	7		0		0	20		02945	4	2	2284
8.50698-	1	7.07850-	1	5.97039-	1	5.14387-	1	4.48323-	1	3.99800-	12945	4	2	2285
3.62775-	1	3.30296-	1	3.04117-	1	2.75391-	1	2.45705-	1	1.99737-	12945	4	2	2286
1.36328-	1	7.82865-	2	4.13724-	2	2.19782-	2	8.37070-	3	2.89104-	32945	4	2	2287
1.27420-	3	2.32007-	4								2945	4	2	2288
0.0	+	0	1.70000+	7		0		0	20		02945	4	2	2289
8.64256-	1	7.31017-	1	6.25069-	1	5.40880-	1	4.73125-	1	4.22287-	12945	4	2	2290
3.80813-	1	3.45880-	1	3.16106-	1	2.85207-	1	2.52386-	1	2.09275-	12945	4	2	2291
1.49594-	1	9.04345-	2	4.98007-	2	2.68401-	2	1.10345-	2	4.50084-	32945	4	2	2292
2.00340-	3	3.49009-	4								2945	4	2	2293
0.0	+	0	1.80000+	7		0		0	20		02945	4	2	2294
8.76153-	1	7.50577-	1	6.47439-	1	5.63171-	1	4.95417-	1	4.41976-	12945	4	2	2295
3.96619-	1	3.59386-	1	3.25760-	1	2.92851-	1	2.57125-	1	2.14876-	12945	4	2	2296
1.58944-	1	9.95403-	2	5.57463-	2	3.02340-	2	1.36913-	2	6.40196-	32945	4	2	2297
2.83994-	3	5.12484-	4								2945	4	2	2298
0.0	+	0	1.90000+	7		0		0	20		02945	4	2	2299
8.86447-	1	7.68112-	1	6.68200-	1	5.85619-	1	5.17955-	1	4.61403-	12945	4	2	2300
4.12902-	1	3.72856-	1	3.35651-	1	3.00346-	1	2.62223-	1	2.19499-	12945	4	2	2301
1.66654-	1	1.08147-	1	6.18567-	2	3.41441-	2	1.71909-	2	8.89939-	32945	4	2	2302
3.98182-	3	8.57302-	4								2945	4	2	2303

0.0	+	0	2.00000+	7		0		0	20	02945	4	2	2304	
8.95102-	1	7.84214-	1	6.88931-	1	6.09633-	1	5.41714-	1	4.82223-	12945	4	2	2305
4.31044-	1	3.87709-	1	3.47177-	1	3.09174-	1	2.68945-	1	2.25229-	12945	4	2	2306
1.74501-	1	1.17712-	1	6.97045-	2	3.97073-	2	2.19817-	2	1.22658-	22945	4	2	2307
5.68065-	3	1.54859-	3								2945	4	2	2308
											2945	4	0	2309
9.42410+	4	2.38986+	2		0		2		0	02945	4	16	2310	
0.0	+	0	2.38986+	2		0	1		0	02945	4	16	2311	
0.0	+	0	0.0	+	0		0		1	22945	4	16	2312	
										02945	4	16	2313	
0.0	+	0	5.26190+	6		0	0		1	22945	4	16	2314	
										02945	4	16	2315	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	16	2316	
0.0	+	0	2.00000+	7		0	0		1	22945	4	16	2317	
										02945	4	16	2318	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	16	2319	
										2945	4	0	2320	
9.42410+	4	2.38986+	2		0		2		0	02945	4	17	2321	
0.0	+	0	2.38986+	2		0	1		0	02945	4	17	2322	
0.0	+	0	0.0	+	0		0		1	22945	4	17	2323	
										02945	4	17	2324	
0.0	+	0	1.18190+	7		0	0		1	22945	4	17	2325	
										02945	4	17	2326	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	17	2327	
0.0	+	0	2.00000+	7		0	0		1	22945	4	17	2328	
										02945	4	17	2329	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	17	2330	
										2945	4	0	2331	
9.42410+	4	2.38986+	2		0		2		0	02945	4	18	2332	
0.0	+	0	2.38986+	2		0	1		0	02945	4	18	2333	
0.0	+	0	0.0	+	0		0		1	22945	4	18	2334	
										02945	4	18	2335	
0.0	+	0	1.00000-	5		0	0		1	22945	4	18	2336	
										02945	4	18	2337	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	18	2338	
0.0	+	0	2.00000+	7		0	0		1	22945	4	18	2339	
										02945	4	18	2340	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	18	2341	
										2945	4	0	2342	
9.42410+	4	2.38986+	2		0		2		0	02945	4	37	2343	
0.0	+	0	2.38986+	2		0	1		0	02945	4	37	2344	
0.0	+	0	0.0	+	0		0		1	22945	4	37	2345	
										02945	4	37	2346	
0.0	+	0	1.75030+	7		0	0		1	22945	4	37	2347	
										02945	4	37	2348	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	37	2349	
0.0	+	0	2.00000+	7		0	0		1	22945	4	37	2350	
										02945	4	37	2351	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	37	2352	
										2945	4	0	2353	
9.42410+	4	2.38986+	2		0		2		0	02945	4	51	2354	
0.0	+	0	2.38986+	2		0	2		0	02945	4	51	2355	
0.0	+	0	0.0	+	0		0		1	22945	4	51	2356	
										02945	4	51	2357	
0.0	+	0	4.19749+	4		0	0		1	22945	4	51	2358	
										02945	4	51	2359	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	51	2360	
0.0	+	0	2.00000+	7		0	0		1	22945	4	51	2361	
										02945	4	51	2362	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	51	2363	
										2945	4	0	2364	
9.42410+	4	2.38986+	2		0		2		0	02945	4	52	2365	
0.0	+	0	2.38986+	2		0	2		0	02945	4	52	2366	
0.0	+	0	0.0	+	0		0		1	22945	4	52	2367	
										02945	4	52	2368	
0.0	+	0	9.43933+	4		0	0		1	22945	4	52	2369	
										02945	4	52	2370	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	52	2371	
0.0	+	0	2.00000+	7		0	0		1	22945	4	52	2372	
										02945	4	52	2373	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			2945	4	52	2374	
										2945	4	0	2375	

9.42410+	4	2.38986+	2	0	2	0	02945 4 53 2376	
0.0	+	0	2.38986+	2	0	0	02945 4 53 2377	
0.0	+	0	0.0	+	0	0	22945 4 53 2378	
		2	2			0	02945 4 53 2379	
0.0	+	0	1.62176+	5	0	0	22945 4 53 2380	
		2	2			0	02945 4 53 2381	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 53 2382
0.0	+	0	2.00000+	7	0	0	1	22945 4 53 2383
		2	2			0	0	02945 4 53 2384
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 53 2385
								2945 4 0 2386
9.42410+	4	2.38986+	2	0	2	0	02945 4 54 2387	
0.0	+	0	2.38986+	2	0	2	0	02945 4 54 2388
0.0	+	0	0.0	+	0	0	1	22945 4 54 2389
		2	2			0	0	02945 4 54 2390
0.0	+	0	1.71515+	5	0	0	1	22945 4 54 2391
		2	2			0	0	02945 4 54 2392
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 54 2393
0.0	+	0	2.00000+	7	0	0	1	22945 4 54 2394
		2	2			0	0	02945 4 54 2395
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 54 2396
								2945 4 0 2397
9.42410+	4	2.38986+	2	0	2	0	02945 4 55 2398	
0.0	+	0	2.38986+	2	0	2	0	02945 4 55 2399
0.0	+	0	0.0	+	0	0	1	22945 4 55 2400
		2	2			0	0	02945 4 55 2401
0.0	+	0	2.24034+	5	0	0	1	22945 4 55 2402
		2	2			0	0	02945 4 55 2403
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 55 2404
0.0	+	0	2.00000+	7	0	0	1	22945 4 55 2405
		2	2			0	0	02945 4 55 2406
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 55 2407
								2945 4 0 2408
9.42410+	4	2.38986+	2	0	2	0	02945 4 56 2409	
0.0	+	0	2.38986+	2	0	2	0	02945 4 56 2410
0.0	+	0	0.0	+	0	0	1	22945 4 56 2411
		2	2			0	0	02945 4 56 2412
0.0	+	0	2.30962+	5	0	0	1	22945 4 56 2413
		2	2			0	0	02945 4 56 2414
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 56 2415
0.0	+	0	2.00000+	7	0	0	1	22945 4 56 2416
		2	2			0	0	02945 4 56 2417
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 56 2418
								2945 4 0 2419
9.42410+	4	2.38986+	2	0	2	0	02945 4 57 2420	
0.0	+	0	2.38986+	2	0	2	0	02945 4 57 2421
0.0	+	0	0.0	+	0	0	1	22945 4 57 2422
		2	2			0	0	02945 4 57 2423
0.0	+	0	2.43716+	5	0	0	1	22945 4 57 2424
		2	2			0	0	02945 4 57 2425
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 57 2426
0.0	+	0	2.00000+	7	0	0	1	22945 4 57 2427
		2	2			0	0	02945 4 57 2428
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 57 2429
								2945 4 0 2430
9.42410+	4	2.38986+	2	0	2	0	02945 4 58 2431	
0.0	+	0	2.38986+	2	0	2	0	02945 4 58 2432
0.0	+	0	0.0	+	0	0	1	22945 4 58 2433
		2	2			0	0	02945 4 58 2434
0.0	+	0	3.01255+	5	0	0	1	22945 4 58 2435
		2	2			0	0	02945 4 58 2436
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 58 2437
0.0	+	0	2.00000+	7	0	0	1	22945 4 58 2438
		2	2			0	0	02945 4 58 2439
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	2945 4 58 2440
								2945 4 0 2441
9.42410+	4	2.38986+	2	0	2	0	02945 4 59 2442	
0.0	+	0	2.38986+	2	0	2	0	02945 4 59 2443
0.0	+	0	0.0	+	0	0	1	22945 4 59 2444
		2	2			0	0	02945 4 59 2445
0.0	+	0	3.36402+	5	0	0	1	22945 4 59 2446
		2	2			0	0	02945 4 59 2447

-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1					2945	4	59	2448
0.0	+	0	2.00000+	7	0	0	0	1				22945	4	59	2449
		2	2	0	0	0	0	0				02945	4	59	2450
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1					2945	4	59	2451
												2945	4	0	2452
9.42410+	4	2.38986+	2	0	0	2	0	0				02945	4	60	2453
0.0	+	0	2.38986+	2	0	2	0	0				02945	4	60	2454
0.0	+	0	0.0	+	0	0	0	1				22945	4	60	2455
		2	2	0	0	0	0	0				02945	4	60	2456
0.0	+	0	3.69540+	5	0	0	0	1				22945	4	60	2457
		2	2	0	0	0	0	0				02945	4	60	2458
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1					2945	4	60	2459
0.0	+	0	2.00000+	7	0	0	0	1				22945	4	60	2460
		2	2	0	0	0	0	0				02945	4	60	2461
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1					2945	4	60	2462
												2945	4	0	2463
9.42410+	4	2.38986+	2	0	0	2	0	0				02945	4	61	2464
0.0	+	0	2.38986+	2	0	2	0	0				02945	4	61	2465
0.0	+	0	0.0	+	0	0	0	1				22945	4	61	2466
		2	2	0	0	0	0	0				02945	4	61	2467
0.0	+	0	4.46862+	5	0	0	0	1				22945	4	61	2468
		2	2	0	0	0	0	0				02945	4	61	2469
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1					2945	4	61	2470
0.0	+	0	2.00000+	7	0	0	0	1				22945	4	61	2471
		2	2	0	0	0	0	0				02945	4	61	2472
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1					2945	4	61	2473
												2945	4	0	2474
9.42410+	4	2.38986+	2	0	0	2	0	0				02945	4	91	2475
0.0	+	0	2.38986+	2	0	1	0	0				02945	4	91	2476
0.0	+	0	0.0	+	0	0	0	1				22945	4	91	2477
		2	2	0	0	0	0	0				02945	4	91	2478
0.0	+	0	4.92050+	5	0	0	0	1				22945	4	91	2479
		2	2	0	0	0	0	0				02945	4	91	2480
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1					2945	4	91	2481
0.0	+	0	2.00000+	7	0	0	0	1				22945	4	91	2482
		2	2	0	0	0	0	0				02945	4	91	2483
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1					2945	4	91	2484
												2945	4	0	2485
												2945	0	0	2486
9.42410+	4	2.38986+	2	0	0	0	0	2				02945	5	16	2487
5.26190+	6	0.0	+	0	0	9	1	1				22945	5	16	2488
		2	2	0	0	0	0	0				02945	5	16	2489
5.26190+	6	5.00000-	1	2.00000+	7	5.00000-	1					2945	5	16	2490
0.0	+	0	0.0	+	0	0	0	1				92945	5	16	2491
		9	2	0	0	0	0	0				02945	5	16	2492
5.26190+	6	4.30692+	5	6.00000+	6	4.62149+	5	8.00000+	6	5.37903+	5	52945	5	16	2493
1.00000+	7	6.03939+	5	1.20000+	7	6.63249+	5	1.40000+	7	7.17547+	5	52945	5	16	2494
1.60000+	7	7.67923+	5	1.80000+	7	8.15120+	5	2.00000+	7	8.59674+	5	52945	5	16	2495
5.26190+	6	0.0	+	0	0	9	1	1				22945	5	16	2496
		2	2	0	0	0	0	0				02945	5	16	2497
5.26190+	6	5.00000-	1	2.00000+	7	5.00000-	1					2945	5	16	2498
0.0	+	0	0.0	+	0	0	0	1				92945	5	16	2499
		9	2	0	0	0	0	0				02945	5	16	2500
5.26190+	6	3.43578+	5	6.00000+	6	3.43578+	5	8.00000+	6	3.43578+	5	52945	5	16	2501
1.00000+	7	3.43578+	5	1.20000+	7	4.22021+	5	1.40000+	7	5.01196+	5	52945	5	16	2502
1.60000+	7	5.69422+	5	1.80000+	7	6.30284+	5	2.00000+	7	6.85766+	5	52945	5	16	2503
												2945	5	0	2504
9.42410+	4	2.38986+	2	0	0	0	3	0				02945	5	17	2505
1.18190+	7	0.0	+	0	0	9	1	1				22945	5	17	2506
		2	2	0	0	0	0	0				02945	5	17	2507
1.18190+	7	3.33333-	1	2.00000+	7	3.33333-	1					2945	5	17	2508
0.0	+	0	0.0	+	0	0	0	1				62945	5	17	2509
		6	2	0	0	0	0	0				02945	5	17	2510
1.18190+	7	6.58108+	5	1.20000+	7	6.63249+	5	1.40000+	7	7.17547+	5	52945	5	17	2511
1.60000+	7	7.67923+	5	1.80000+	7	8.15120+	5	2.00000+	7	8.59674+	5	52945	5	17	2512
1.18190+	7	0.0	+	0	0	9	1	1				22945	5	17	2513
		2	2	0	0	0	0	0				02945	5	17	2514
1.18190+	7	3.33333-	1	2.00000+	7	3.33333-	1					2945	5	17	2515
0.0	+	0	0.0	+	0	0	0	1				62945	5	17	2516
		6	2	0	0	0	0	0				02945	5	17	2517
1.18190+	7	4.71571+	5	1.20000+	7	4.74150+	5	1.40000+	7	5.16076+	5	52945	5	17	2518
1.60000+	7	5.72816+	5	1.80000+	7	6.31010+	5	2.00000+	7	6.85925+	5	52945	5	17	2519

1.18190+	7	0.0	+ 0	0	9	1	22945	5	17	2520				
	2		2	0	0	0	02945	5	17	2521				
1.18190+	7	3.33333-	1	2.00000+	7	3.33333-	1	2945	5	17	2522			
0.0	+ 0	0.0	+ 0	0	0	0	62945	5	17	2523				
	6		2	0	0	0	02945	5	17	2524				
1.18190+	7	3.46206+	5	1.20000+	7	3.46206+	5	1.40000+	7	3.46206+	52945	5	17	2525
1.60000+	7	3.46206+	5	1.80000+	7	3.46206+	5	2.00000+	7	4.30689+	52945	5	17	2526
								2945	5	0	2527			
9.42410+	4	2.38986+	2	0	0	1	02945	5	18	2528				
-3.00000+	7	0.0	+ 0	0	7	1	22945	5	18	2529				
	2		2	0	0	0	02945	5	18	2530				
1.00000-	5	1.00000+	0	2.00000+	7	1.00000+	0	2945	5	18	2531			
0.0	+ 0	0.0	+ 0	0	0	1	42945	5	18	2532				
	4		2	0	0	0	02945	5	18	2533				
1.00000-	5	1.35970+	6	1.00000+	6	1.37520+	6	1.50000+	7	1.51334+	62945	5	18	2534
2.00000+	7	1.51334+	6					2945	5	18	2535			
								2945	5	0	2536			
9.42410+	4	2.38986+	2	0	0	4	02945	5	37	2537				
1.75030+	7	0.0	+ 0	0	9	1	22945	5	37	2538				
	2		2	0	0	0	02945	5	37	2539				
1.75030+	7	2.50000-	1	2.00000+	7	2.50000-	1	2945	5	37	2540			
0.0	+ 0	0.0	+ 0	0	0	1	32945	5	37	2541				
	3		2	0	0	0	02945	5	37	2542				
1.75030+	7	8.03656+	5	1.80000+	7	8.15120+	5	2.00000+	7	8.59674+	52945	5	37	2543
1.75030+	7	0.0	+ 0	0	9	1	22945	5	37	2544				
	2		2	0	0	0	02945	5	37	2545				
1.75030+	7	2.50000-	1	2.00000+	7	2.50000-	1	2945	5	37	2546			
0.0	+ 0	0.0	+ 0	0	0	1	32945	5	37	2547				
	3		2	0	0	0	02945	5	37	2548				
1.75030+	7	6.63763+	5	1.80000+	7	6.69012+	5	2.00000+	7	6.99682+	52945	5	37	2549
1.75030+	7	0.0	+ 0	0	9	1	22945	5	37	2550				
	2		2	0	0	0	02945	5	37	2551				
1.75030+	7	2.50000-	1	2.00000+	7	2.50000-	1	2945	5	37	2552			
0.0	+ 0	0.0	+ 0	0	0	1	32945	5	37	2553				
	3		2	0	0	0	02945	5	37	2554				
1.75030+	7	4.56580+	5	1.80000+	7	4.59321+	5	2.00000+	7	4.80505+	52945	5	37	2555
1.75030+	7	0.0	+ 0	0	9	1	22945	5	37	2556				
	2		2	0	0	0	02945	5	37	2557				
1.75030+	7	2.50000-	1	2.00000+	7	2.50000-	1	2945	5	37	2558			
0.0	+ 0	0.0	+ 0	0	0	1	32945	5	37	2559				
	3		2	0	0	0	02945	5	37	2560				
1.75030+	7	3.46805+	5	1.80000+	7	3.46805+	5	2.00000+	7	3.46805+	52945	5	37	2561
								2945	5	0	2562			
9.42410+	4	2.38986+	2	0	0	1	02945	5	91	2563				
4.92050+	5	0.0	+ 0	0	9	1	22945	5	91	2564				
	2		2	0	0	0	02945	5	91	2565				
4.92050+	5	1.00000+	0	2.00000+	7	1.00000+	0	2945	5	91	2566			
0.0	+ 0	0.0	+ 0	0	0	1	112945	5	91	2567				
	11		2	0	0	0	02945	5	91	2568				
4.92050+	5	3.40565+	5	2.00000+	6	3.40565+	5	4.00000+	6	3.70463+	52945	5	91	2569
6.00000+	6	4.62149+	5	8.00000+	6	5.37903+	5	1.00000+	7	6.03939+	52945	5	91	2570
1.20000+	7	6.63249+	5	1.40000+	7	7.17547+	5	1.60000+	7	7.67923+	52945	5	91	2571
1.80000+	7	8.15120+	5	2.00000+	7	8.59674+	5	2945	5	91	2572			
								2945	5	0	2573			
9.42410+	4	2.38986+	2	0	0	6	02945	5455	2574					
-3.00000+	7	0.0	+ 0	0	5	1	22945	5455	2575					
	2		2	0	0	0	02945	5455	2576					
1.00000-	5	1.00000-	2	2.00000+	7	1.00000-	2	2945	5455	2577				
0.0	+ 0	0.0	+ 0	0	0	1	22945	5455	2578					
	2		2	0	0	0	02945	5455	2579					
1.00000-	5	1.00000+	0	2.00000+	7	1.00000+	0	2945	5455	2580				
0.0	+ 0	0.0	+ 0	0	0	1	282945	5455	2581					
	28		1	0	0	0	02945	5455	2582					
0.0	+ 0	0.0	+ 0	7.97300+	4	8.30700-	6	8.85900+	4	8.66870-	62945	5455	2583	
9.84300+	4	8.54662-	6	1.09370+	5	7.25103-	6	1.21520+	5	5.94815-	62945	5455	2584	
1.35020+	5	4.94000-	6	1.50020+	5	3.82124-	6	1.66690+	5	2.39072-	62945	5455	2585	
1.85220+	5	2.03596-	6	2.05800+	5	1.68854-	6	2.28660+	5	1.32625-	62945	5455	2586	
2.54070+	5	9.88310-	7	2.82300+	5	7.23621-	7	3.13670+	5	5.82496-	72945	5455	2587	
3.48520+	5	5.78512-	7	3.87240+	5	5.67046-	7	4.30270+	5	5.41728-	72945	5455	2588	
4.78080+	5	4.72515-	7	5.31200+	5	3.94781-	7	5.90220+	5	2.83623-	72945	5455	2589	
6.55800+	5	2.34697-	7	7.28660+	5	1.67963-	7	8.09630+	5	1.43397-	72945	5455	2590	
8.99590+	5	1.21061-	7	9.99540+	5	8.19377-	8	1.11060+	6	6.07779-	82945	5455	2591	

1.23400+	6	0.0	+ 0							2945	5455	2592	
-3.00000+	7	0.0	+ 0	0	5	1				22945	5455	2593	
	2		2	0	0	0				02945	5455	2594	
1.00000-	5	2.29000-	1	2.00000+	7	2.29000-	1			2945	5455	2595	
0.0	+ 0	0.0	+ 0	0	0	1				22945	5455	2596	
	2		2	0	0	0				02945	5455	2597	
1.00000-	5	1.00000+	0	2.00000+	7	1.00000+	0			2945	5455	2598	
0.0	+ 0	0.0	+ 0	0	0	1				232945	5455	2599	
	23		1	0	0	0				02945	5455	2600	
0.0	+ 0	4.20000-	7	1.50000+	5	0.0	+ 0	2.00000+	5	3.40000-	72945	5455	2601
2.50000+	5	0.0	+ 0	3.00000+	5	2.20000-	7	3.50000+	5	2.04000-	62945	5455	2602
4.00000+	5	5.60000-	7	4.50000+	5	2.68000-	6	5.00000+	5	1.76000-	62945	5455	2603
5.50000+	5	1.74000-	6	6.00000+	5	2.00000-	7	6.50000+	5	6.80000-	72945	5455	2604
7.00000+	5	1.30000-	6	7.50000+	5	1.12000-	6	8.00000+	5	1.50000-	62945	5455	2605
8.50000+	5	3.40000-	7	9.00000+	5	9.80000-	7	9.50000+	5	4.40000-	72945	5455	2606
1.00000+	6	7.00000-	7	1.05000+	6	6.80000-	7	1.10000+	6	8.40000-	72945	5455	2607
1.15000+	6	6.20000-	7	1.20000+	6	0.0	+ 0			2945	5455	2608	
-3.00000+	7	0.0	+ 0	0	5	1				22945	5455	2609	
	2		2	0	0	0				02945	5455	2610	
1.00000-	5	1.73000-	1	2.00000+	7	1.73000-	1			2945	5455	2611	
0.0	+ 0	0.0	+ 0	0	0	1				22945	5455	2612	
	2		2	0	0	0				02945	5455	2613	
1.00000-	5	1.00000+	0	2.00000+	7	1.00000+	0			2945	5455	2614	
0.0	+ 0	0.0	+ 0	0	0	1				282945	5455	2615	
	28		1	0	0	0				02945	5455	2616	
0.0	+ 0	0.0	+ 0	7.97300+	4	1.13544-	5	8.85900+	4	1.03963-	52945	5455	2617
9.84300+	4	7.56856-	6	1.09370+	5	5.53086-	6	1.21520+	5	4.68889-	62945	5455	2618
1.35020+	5	3.03333-	6	1.50020+	5	2.41752-	6	1.66690+	5	2.29358-	62945	5455	2619
1.85220+	5	7.92031-	7	2.05800+	5	6.16798-	7	2.28660+	5	8.77607-	72945	5455	2620
2.54070+	5	1.78888-	6	2.82300+	5	1.64448-	6	3.13670+	5	1.04448-	62945	5455	2621
3.48520+	5	1.10279-	6	3.87240+	5	1.10388-	6	4.30270+	5	9.32859-	72945	5455	2622
4.78080+	5	5.91114-	7	5.31200+	5	2.05015-	7	5.90220+	5	2.60750-	72945	5455	2623
6.55800+	5	2.05874-	7	7.28660+	5	1.69198-	7	8.09630+	5	1.34504-	72945	5455	2624
8.99590+	5	1.21061-	7	9.99540+	5	9.72446-	8	1.11060+	6	4.21394-	82945	5455	2625
1.23400+	6	0.0	+ 0							2945	5455	2626	
-3.00000+	7	0.0	+ 0	0	5	1				22945	5455	2627	
	2		2	0	0	0				02945	5455	2628	
1.00000-	5	3.90000-	1	2.00000+	7	3.90000-	1			2945	5455	2629	
0.0	+ 0	0.0	+ 0	0	0	1				22945	5455	2630	
	2		2	0	0	0				02945	5455	2631	
1.00000-	5	1.00000+	0	2.00000+	7	1.00000+	0			2945	5455	2632	
0.0	+ 0	0.0	+ 0	0	0	1				282945	5455	2633	
	28		1	0	0	0				02945	5455	2634	
0.0	+ 0	0.0	+ 0	7.97300+	4	4.78411-	6	8.85900+	4	4.63276-	62945	5455	2635
9.84300+	4	4.24919-	6	1.09370+	5	3.99057-	6	1.21520+	5	3.74703-	62945	5455	2636
1.35020+	5	4.19874-	6	1.50020+	5	3.70615-	6	1.66690+	5	2.76226-	62945	5455	2637
1.85220+	5	3.47321-	6	2.05800+	5	2.97374-	6	2.28660+	5	2.47073-	62945	5455	2638
2.54070+	5	1.96895-	6	2.82300+	5	1.81011-	6	3.13670+	5	1.54330-	62945	5455	2639
3.48520+	5	1.37614-	6	3.87240+	5	5.20411-	7	4.30270+	5	3.07375-	72945	5455	2640
4.78080+	5	3.63219-	7	5.31200+	5	4.92905-	7	5.90220+	5	3.42989-	72945	5455	2641
6.55800+	5	1.39953-	7	7.28660+	5	2.14830-	7	8.09630+	5	1.73358-	72945	5455	2642
8.99590+	5	7.20144-	8	9.99540+	5	5.04081-	8	1.11060+	6	3.96964-	82945	5455	2643
1.23400+	6	0.0	+ 0							2945	5455	2644	
-3.00000+	7	0.0	+ 0	0	5	1				22945	5455	2645	
	2		2	0	0	0				02945	5455	2646	
1.00000-	5	1.82000-	1	2.00000+	7	1.82000-	1			2945	5455	2647	
0.0	+ 0	0.0	+ 0	0	0	1				22945	5455	2648	
	2		2	0	0	0				02945	5455	2649	
1.00000-	5	1.00000+	0	2.00000+	7	1.00000+	0			2945	5455	2650	
0.0	+ 0	0.0	+ 0	0	0	1				282945	5455	2651	
	28		1	0	0	0				02945	5455	2652	
0.0	+ 0	0.0	+ 0	7.97300+	4	4.78411-	6	8.85900+	4	4.63276-	62945	5455	2653
9.84300+	4	4.24919-	6	1.09370+	5	3.99057-	6	1.21520+	5	3.74703-	62945	5455	2654
1.35020+	5	4.19874-	6	1.50020+	5	3.70615-	6	1.66690+	5	2.76226-	62945	5455	2655
1.85220+	5	3.47321-	6	2.05800+	5	2.97374-	6	2.28660+	5	2.47073-	62945	5455	2656
2.54070+	5	1.96895-	6	2.82300+	5	1.81011-	6	3.13670+	5	1.54330-	62945	5455	2657
3.48520+	5	1.37614-	6	3.87240+	5	5.20411-	7	4.30270+	5	3.07375-	72945	5455	2658
4.78080+	5	3.63219-	7	5.31200+	5	4.92905-	7	5.90220+	5	3.42989-	72945	5455	2659
6.55800+	5	1.39953-	7	7.28660+	5	2.14830-	7	8.09630+	5	1.73358-	72945	5455	2660
8.99590+	5	7.20144-	8	9.99540+	5	5.04081-	8	1.11060+	6	3.96964-	82945	5455	2661
1.23400+	6	0.0	+ 0							2945	5455	2662	
-3.00000+	7	0.0	+ 0	0	5	1				22945	5455	2663	

	2		2		0		0		0	02945	5455	2664	
1.00000-	5	1.60000-	2	2.00000+	7	1.60000-	2			2945	5455	2665	
0.0	+ 0	0.0	+ 0						1	22945	5455	2666	
	2		2		0		0		0	02945	5455	2667	
1.00000-	5	1.00000+	0	2.00000+	7	1.00000+	0			2945	5455	2668	
0.0	+ 0	0.0	+ 0						1	282945	5455	2669	
	28		1		0		0		0	02945	5455	2670	
0.0	+ 0	0.0	+ 0	7.97300+	4	4.78411-	6	8.85900+	4	4.63276-	62945	5455	2671
9.84300+	4	4.24919-	6	1.09370+	5	3.99057-	6	1.21520+	5	3.74703-	62945	5455	2672
1.35020+	5	4.19874-	6	1.50020+	5	3.70615-	6	1.66690+	5	2.76226-	62945	5455	2673
1.85220+	5	3.47321-	6	2.05800+	5	2.97374-	6	2.28660+	5	2.47073-	62945	5455	2674
2.54070+	5	1.96895-	6	2.82300+	5	1.81011-	6	3.13670+	5	1.54330-	62945	5455	2675
3.48520+	5	1.37614-	6	3.87240+	5	5.20411-	7	4.30270+	5	3.07375-	72945	5455	2676
4.78080+	5	3.63219-	7	5.31200+	5	4.92905-	7	5.90220+	5	3.42989-	72945	5455	2677
6.55800+	5	1.39953-	7	7.28660+	5	2.14830-	7	8.09630+	5	1.73358-	72945	5455	2678
8.99590+	5	7.20144-	8	9.99540+	5	5.04081-	8	1.11060+	6	3.96964-	82945	5455	2679
1.23400+	6	0.0	+ 0							2945	5455	2680	
										2945	5	0	2681
										2945	0	0	2682
										0	0	0	2683
										-1	0	0	0