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PLUTONIUM-240 CROSS SECTIONS  
AND THEIR TEMPERATURE DEPENDENCE

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**LOS ALAMOS SCIENTIFIC LABORATORY**  
**OF THE UNIVERSITY OF CALIFORNIA LOS ALAMOS NEW MEXICO**

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PLUTONIUM-240 CROSS SECTIONS  
AND THEIR TEMPERATURE DEPENDENCE

by

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### ABSTRACT

A Breit-Wigner analysis of plutonium-240 is folded into a Maxwellian velocity distribution to obtain total, scattering, radiative capture, and a portion of the fission cross sections versus neutron energy from 0.0253 to 120 ev and for plutonium-240 temperatures of 0.0253 to 0.2 ev.

### ACKNOWLEDGMENTS

This paper is directly based on parameters evaluated by neutron nuclear spectroscopists. We are grateful to the Brookhaven Compilation Group, especially to Mrs. Sophie Moore and Dr. Murray Goldberg. We appreciate a private communication from Dr. Bowen R. Leonard, Jr., of the Hanford Works.



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## I. METHOD

This work follows the methods of Devaney, Goldstein, Fagan, and Devaney.<sup>1</sup> Briefly put, this calculation yields the cross sections expected from plutonium-240 in thermal Maxwellian motion, assuming negligible reactive interference. That a Maxwellian velocity distribution is a useful approximation follows from the fact that the Debye temperature of plutonium, which lies between 170 and 180°K,<sup>2</sup> is well below the temperatures considered here (0.0253 ev is 294°K).

The cross sections presented here are those actually measurable or useable in the laboratory, namely, the reaction rate per nucleus divided by the laboratory neutron velocity; see the discussion in Devaney and Fagan (IA-2144).<sup>1</sup> Multilevel interference formulas were judged unnecessary, the ratio of widths to spacing being about 0.01; see the discussion for tungsten in Devaney, Devaney, and Coward (IA-2289).<sup>1</sup>

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<sup>1</sup>J. Devaney et al., series of Los Alamos Scientific Laboratory Reports on cross sections and their temperature dependence: Pu-239, IA-2127 (1957); U-238, IA-2144, (1958); W, IA-2289 (1958); Mo, IA-2373 (1960); and Th-232, IA-2525 (1961). Available for sale from the Office of Technical Services, U.S. Department of Commerce, Washington 25, D.C.

<sup>2</sup>T. A. Sandenaw, C. E. Olsen and R. B. Gibney, Los Alamos Scientific Laboratory Report, IA-2398 (1960); and also H. L. Laquer as quoted in the same reference.

## II. SOURCES OF DATA

The 1st level parameters were obtained from Pattenden and Rainey<sup>3</sup> with the exception of the fission width which came from Leonard and Odegaarden.<sup>4</sup> The neutron width of the 10th resonance (116.0 ev) was taken from Simpson and Fluharty,<sup>5</sup> and the remaining fission widths are an out and out guess by one author (J.D.). The rest of the level parameters are taken from the Brookhaven Compilation of Hughes, Magurno, and Brussel,<sup>6</sup> with the radiation width taken as  $3^4$  mv when not specifically given. We list below the level parameters used (laboratory system):

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<sup>3</sup>N. J. Pattenden and V. S. Rainey, J. Nucl. Energy, Part A. Reactor Science, 11, 14 (1959).

<sup>4</sup>B. R. Leonard, Jr., and R. H. Odegaarden, Hanford Works Report, HW-67219, General Electric Company (1960).

<sup>5</sup>Simpson and Fluharty, Bull. Amer. Phys. Soc. II, 2, 219 (1956).

<sup>6</sup>D. J. Hughes, B. A. Magurno, and M. K. Brussel, Brookhaven National Laboratory Report BNL-325, second edition, supplement 1, (1960).

Resonance Number 1	Resonance Energy $E_1$ (ev)	Gamma Width $\Gamma_\gamma^1$ (ev)	Reduced Neutron Width $\Gamma_{no}^1$ (ev)	Fission width $\Gamma_F^1$ (ev)
1	1.0575	0.0296	0.0024	$5.2 \times 10^{-6}$
2	20.4	0.034	0.00052	$4.3 \times 10^{-6}$
3	38.2	0.034	0.00246	$4.3 \times 10^{-6}$
4	41.7	0.034	0.00029	$4.3 \times 10^{-6}$
5	66.0	0.034	0.006	$4.3 \times 10^{-6}$
6	72.0	0.034	0.0034	$4.3 \times 10^{-6}$
7	90.	0.034	0.0018	$4.3 \times 10^{-6}$
8	92.	0.034	0.0010	$4.3 \times 10^{-6}$
9	104.	0.034	0.006	$4.3 \times 10^{-6}$
10	116.0	0.034	0.002	$4.3 \times 10^{-6}$
11	119.0	0.034	0.004	$4.3 \times 10^{-6}$

To account for contributions of resonances outside the energy range considered in this study we have added to the capture cross section  $1/v$  terms of strength (at 0.0253 ev) 6.1865 barns. The radius parameter,  $R = 10$  fermis, was chosen as large as the senior author's conscience would permit. However, experiment and this calculation disagree by a factor of thirty! in the total cross section from  $E_n = 12$  to 19 ev, and similarly from  $E_n = 22$  to 36 ev.<sup>3,6</sup> No reasonable value for  $R$  can cure this discrepancy; either the theory is markedly incomplete, or the experimental values are wildly high in these valleys. Nor is this the only discrepancy, for as noted by many authors, the fission width of the first resonance appears to give too high a thermal fission cross-section when compared with direct thermal measurements (unless one postulates large destructive interference). Consequently, we do not place great confidence in the cross-sections reported here. They are simply the best we can do at this time.

A comparison of our values with experiment at thermal (0.0253 ev energy and temperature) follows (all quantities in barns):

Quantity:	Total Cross Section, $\sigma_T$	Radiative Capture Cross Section, $\sigma_\gamma$	Fission Cross Section, $\sigma_F$
Experiment:	$280 \pm 5,$ <sup>6</sup> $273 \pm 8,$ <sup>3</sup> $290 \pm 8;$ <sup>7</sup>	$286 \pm 7,$ <sup>6</sup> $283 \pm 8,$ <sup>8</sup> $285 \pm 15;$ <sup>9</sup>	$0.030 \pm 0.045,$ <sup>10</sup>
Calculation:	285.9	284	0.049

<sup>7</sup>Block, Slaughter, and Harvey, quoted in Brookhaven National Laboratory, Cross Section Compilation Group Newsletter #1, June, 1960, Document BNL-607-T178, as tentative results. To be published in Nuclear Science and Engineering.

<sup>8</sup>Block, Slaughter, and Harvey, Bull. Amer. Phys. Soc. II, 4, 34 (1959); preliminary results.

<sup>9</sup>Halperin, Oliver, and Pomerance, J. Inorg. and Nucl. Chem., 9, 1 (1959).

<sup>10</sup>R. P. Schuman, as reported in reference 4.

### III. RESULTS

The results of the calculation are presented in tables, each of which gives the total, scattering, fission, and radiative capture cross section as a function of energy for one temperature. Of course, only the first two or three tabulated figures are significant and the last two figures give the exponent; thus, for example, 1.0576678 02 is read 106. and 9.3158847-01 is read 0.93. The fission cross section above 2 ev is pure guesswork.

TABLE I

 $\text{Pu}^{240}$  CROSS SECTIONS $\text{Pu}^{240}$  Temperature = 0.0253 ev

Neutron Energy, $E_n$ (ev)	Radiative Capture Cross Section, $\sigma_\gamma$ (barns)	Fission Cross Section, $\sigma_F$ (barns)	Scattering Cross Section, $\sigma_S$ (barns)	Total Cross Section, $\sigma_T$ (barns)
2.5300002-02	2.8399923 02	4.8760998-02	1.8353066 00	2.8588330 02
3.5000002-02	2.4594820 02	4.2245718-02	1.7859441 00	2.4777639 02
5.0000007-02	2.1179826 02	3.6403420-02	1.7099459 00	2.1354461 02
6.0000005-02	1.9714879 02	3.3899937-02	1.6592115 00	1.9884190 02
8.0000007-02	1.7763115 02	3.0569517-02	1.5573097 00	1.7721903 02
1.0000002-01	1.6543612 02	2.8494258-02	1.4547554 00	1.6691937 02
1.5000002-01	1.5004807 02	2.5895295-02	1.1963948 00	1.5127036 02
2.0000002-01	1.4524442 02	2.5113599-02	9.3810700-01	1.4620764 02
2.5000002-01	1.4621597 02	2.5326718-02	6.8568327-01	1.4692698 02
3.0000005-01	1.5140697 02	2.6269977-02	4.4813915-01	1.5188138 02;
3.5000002-01	1.6042143 02	2.7877937-02	2.3955332-01	1.6068886 02
4.0000006-01	1.7348574 02	3.0192677-02	8.1846894-02	1.7359798 02
4.2000002-01	1.7999176 02	3.1342442-02	4.0188857-02	1.8006329 02
4.4000006-01	1.8732663 02	3.2637373-02	1.4981493-02	1.8737425 02
4.5000005-01	1.9133128 02	3.3343924-02	9.6648836-03	1.9137429 02
4.6000002-01	1.9557701 02	3.4092720-02	9.8964620-03	1.9562100 02
4.8000003-01	2.0484797 02	3.5726980-02	2.9353663-02	2.0491305 02
5.0000002-01	2.1526663 02	3.7562519-02	7.8778121-02	2.1538297 02
5.5000002-01	2.4742289 02	4.3223417-02	3.8120554-01	2.4784732 02
6.0000002-01	2.9124903 02	5.0932923-02	1.0737466 00	2.9237371 02
6.5000002-01	3.5248966 02	6.1700505-02	2.4349311 00	3.5498629 02
7.0000002-01	4.4119933 02	7.7292740-02	4.9861762 00	4.4626280 02
7.5000002-01	5.7623584 02	1.0102263-01	9.7733671 00	5.8611023 02
8.0000002-01	7.9643687 02	1.3971320-01	1.9096508 01	8.1567309 02
8.5000002-01	1.1929046 03	2.0936891-01	3.8706937 01	1.2318209 03
9.0000002-01	2.0247893 03	3.5551634-01	8.6029571 01	2.1111744 03
9.2000002-01	2.6405049 03	4.6368467-01	1.2405753 02	2.7650261 03
9.4000002-01	3.6053893 03	6.3319332-01	1.8668471 02	3.7927072 03
9.6000002-01	5.2522660 03	9.2251152-01	2.9894907 02	5.5521376 03
9.8000002-01	8.4470409 03	1.4837575 00	5.2778639 02	8.9763111 03
1.0000002 00	1.6051826 04	2.8197349 00	1.1017161 03	1.7156362 04
1.0100002 00	2.4236068 04	4.2575084 00	1.7427264 03	2.5983052 04
1.0200002 00	3.8550376 04	6.7721653 00	2.8938714 03	4.1451019 04
1.0300002 00	6.1302466 04	1.0769178 01	4.7713290 03	6.6084584 04
1.0400002 00	9.0007510 04	1.5811954 01	7.2098062 03	9.7233128 04
1.0450002 00	1.0341040 05	1.8166514 01	8.3850737 03	1.1181364 05
1.0500002 00	1.1364709 05	1.9964850 01	9.3192451 03	1.2298630 05
1.0530002 00	1.1752676 05	2.0646415 01	9.6996329 03	1.2724704 05
1.0550002 00	1.1897645 05	2.0904605 01	9.8624158 03	1.2887977 05
1.0575002 00	1.1949797 05	2.0992709 01	9.9558267 03	1.2947479 05
1.0600002 00	1.1849861 05	2.0817145 01	9.9241633 03	1.2844359 05
1.0620002 00	1.1664971 05	2.0492343 01	9.8103768 03	1.2648058 05
1.0650002 00	1.1226372 05	1.9721828 01	9.5019179 03	1.2178536 05
1.0700002 00	1.0142743 05	1.7818157 01	8.6801722 03	1.1012542 05
1.0800002 00	7.3235029 04	1.2865441 01	6.4254080 03	7.9673303 04
1.0900002 00	4.7249603 04	8.3004332 00	4.2732347 03	5.1531138 04
1.1000002 00	2.9373593 04	5.1600537 00	2.7543331 03	3.2133086 04
1.1100002 00	1.8783381 04	3.2996121 00	1.8325695 03	2.0619250 04
1.1200002 00	1.2740019 04	2.2379411 00	1.2937160 03	1.4035973 04
1.1400002 00	6.9066368 03	1.2131592 00	7.5661930 02	7.6644693 03
1.1500002 00	5.3750450 03	9.4761016-01	6.1260915 02	6.0086018 03
1.1700002 00	3.5544333 03	6.2426074-01	4.3237025 02	3.9874278 03
1.2000002 00	2.1587897 03	3.7908231-01	2.8962904 02	2.4487978 03
1.2500002 00	1.1480631 03	2.0152551-01	1.7947998 02	1.3277446 03
1.3000002 00	7.0658958 02	1.2397244-01	1.2740989 02	8.3412344 02
1.3500002 00	4.7574678 02	8.3421936-02	9.8106737 01	5.7393674 02
1.4000002 00	3.4049500 02	5.9664265-02	7.9707937 01	4.2026260 02
1.4500002 00	2.5474567 02	4.4602831-02	6.7252279 01	3.2204255 02
1.5000002 00	1.9712975 02	3.4483615-02	5.8343625 01	2.5550786 02
1.6000002 00	1.2718645 02	2.2200920-02	4.6578780 01	1.7378743 02
1.7000002 00	8.8178344 01	1.5352374-02	3.9247554 01	1.2744125 02
1.8000002 00	6.4360349 01	1.1172001-02	3.4287435 01	9.8658956 01
1.9000002 00	4.8830813 01	8.4474605-03	3.0729043 01	7.9568303 01

TABLE I (continued)

T = 0.0253 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
2.0000002 00	3.8187881 01	6.5809839-03	2.8061994 01	6.6256456 01
2.1000002 00	3.0602194 01	5.2514116-03	2.5994058 01	5.6601503 01
2.3000002 00	2.0806796 01	3.5360858-03	2.3005330 01	4.3815662 01
2.5000002 00	1.4993600 01	2.5196596-03	2.0955985 01	3.5952104 01
2.8000002 00	9.9258987 00	1.6356079-03	1.8865280 01	2.8792814 01
3.0000002 00	7.8469220 00	1.2739964-03	1.7868168 01	2.5716363 01
3.5000002 00	4.8237220 00	7.5051992-04	1.6149533 01	2.0974005 01
4.0000002 00	3.2915065 00	4.8747876-04	1.5053776 01	1.8345770 01
5.0000002 00	1.8753303 00	2.4802454-04	1.3729414 01	1.5604992 01
6.0000002 00	1.2688998 00	1.4832437-04	1.2947269 01	1.4216317 01
8.0000002 00	7.7551508-01	7.1073002-05	1.2033067 01	1.2808653 01
1.0000002 01	5.8628961-01	4.3974355-05	1.1474946 01	1.2061279 01
1.1000002 01	5.3511164-01	3.7242975-05	1.1254380 01	1.1789528 01
1.3000002 01	4.7982312-01	3.0701267-05	1.0862446 01	1.1342300 01
1.4000002 01	4.7156890-01	3.0105229-05	1.0671602 01	1.1143201 01
1.5000002 01	4.7864572-01	3.1509492-05	1.0469957 01	1.0948634 01
1.6000002 01	5.0988312-01	3.5997650-05	1.0240850 01	1.0750769 01
1.7000002 01	5.9115706-01	4.6822275-05	9.9523683 00	1.0543572 01
1.8000002 01	8.1419342-01	7.5571766-05	9.5239511 00	1.0338220 01
1.8500002 01	1.0854920 00	1.1015018-04	9.1888979 00	1.0274500 01
1.9000002 01	1.7023699 00	1.8843078-04	8.6627099 00	1.0365268 01
1.9200002 01	2.1921520 00	2.5047823-04	8.3480256 00	1.0540428 01
1.9400002 01	3.0086244 00	3.5384179-04	7.9237288 00	1.0932707 01
1.9600002 01	4.5263239 00	5.4588922-04	7.3145673 00	1.1841437 01
1.9800002 01	7.8780079 00	9.6988117-04	6.3575322 00	1.4236510 01
2.0000002 01	1.8114663 01	2.2646186-03	4.6369054 00	2.2753833 01
2.0200002 01	1.2113338 02	1.5293558-02	3.3301159 00	1.2447879 02
2.0220002 01	1.7877245 02	2.2583215-02	5.3176573 00	1.8411269 02
2.0230002 01	2.1994184 02	2.7789936-02	7.0503809 00	2.2702001 02
2.0240002 01	2.7181460 02	3.4350323-02	9.4661609 00	2.8131511 02
2.0250002 01	3.3635624 02	4.2512950-02	1.2728815 01	3.4912757 02
2.0300002 01	8.9866434 02	1.1362840-01	4.7095859 01	9.4587383 02
2.0350002 01	1.7473365 03	2.2096049-01	1.1111355 02	1.8586710 03
2.0370002 01	2.0238935 03	2.5593681-01	1.3665245 02	2.1608019 03
2.0390002 01	2.1784251 03	2.7548052-01	1.5563132 02	2.3343317 03
2.0400002 01	2.1978061 03	2.7793166-01	1.6147707 02	2.3595611 03
2.0410002 01	2.1763082 03	2.7521283-01	1.6450818 02	2.3410916 03
2.0430002 01	2.0182320 03	2.5522085-01	1.6196457 02	2.1804518 03
2.0450002 01	1.7396205 03	2.2001000-01	1.4930099 02	1.8893415 03
2.0500002 01	8.9368300 02	1.1299848-01	9.6722627 01	9.7051863 02
2.0550002 01	3.3537582 02	4.2389101-02	5.4080391 01	3.8949860 02
2.0600002 01	1.2095389 02	1.5271057-02	3.3981529 01	1.5495069 02
2.0800002 01	1.7799283 01	2.2251320-03	1.8516586 01	3.6318094 01
2.1000002 01	7.6613523 00	9.4308011-04	1.5396106 01	2.3058401 01
2.1200002 01	4.3600133 00	5.2565519-04	1.3981548 01	1.8342087 01
2.1400002 01	2.8718915 00	3.3754813-04	1.3165175 01	1.6037404 01
2.1600002 01	2.0744960 00	2.3679685-04	1.2627083 01	1.4703816 01
2.1800002 01	1.5977639 00	1.7659929-04	1.2746382 01	1.3844822 01
2.2000002 01	1.2902035 00	1.3779624-04	1.1758249 01	1.3248590 01
2.2200002 01	1.0803295 00	1.1134689-04	1.1730726 01	1.2811167 01
2.2500002 01	8.7170716-01	8.5101167-05	1.1464434 01	1.2336226 01
2.3000002 01	6.7225834-01	6.0104389-05	1.1141192 01	1.1813510 01
2.4000002 01	4.9601427-01	3.8255838-05	1.0713757 01	1.1209809 01
2.5000002 01	4.2501100-01	2.9696767-05	1.0412168 01	1.0837209 01
2.7000002 01	3.7977166-01	2.4770377-05	9.9302677 00	1.0310064 01
2.8000002 01	3.7699098-01	2.5043538-05	9.7013850 00	1.0080401 01
2.9000002 01	3.8857161-01	2.6611766-05	9.4620712 00	9.8506893 00
3.0000002 01	4.0943618-01	2.9592562-05	9.2001805 00	9.6096462 00
3.1000002 01	4.4533103-01	3.4460511-05	8.9008752 00	9.3462607 00
3.2000002 01	5.0448858-01	4.2257537-05	8.5432065 00	9.0477372 00
3.3000002 01	6.0450615-01	5.5209905-05	8.0731434 00	8.6777048 00
3.4000002 01	7.8661462-01	7.8532782-05	7.4692790 00	8.2759721 00
3.5000002 01	1.1656057 00	1.2674457-04	6.6054086 00	7.7711410 00

TABLE I (continued)

T = 0.0253 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
3.6000002 01	2.1697619 00	2.5401104-04	5.1355747 00	7.3055906 00
3.6500002 01	3.4535313 00	4.1650162-04	3.9498220 00	7.4037698 00
3.7000002 01	6.6832065 00	8.2508957-04	2.2047590 00	8.8887907 00
3.7200002 01	9.5527064 00	1.1880479-03	1.3223826 00	1.0876277 01
3.7400002 01	1.4943447 01	1.8698685-03	4.6658010-01	1.5411897 01
3.7600002 01	2.7145723 01	3.4131484-03	3.8052899-01	2.7529665 01
3.7650001 01	3.2719105 01	4.1180298-03	8.1284804-01	3.3536071 01
3.7700002 01	4.0340157 01	5.0818814-03	1.7077344 00	4.2052973 01
3.7800002 01	6.8174851 01	8.6021763-03	6.9368238 00	7.5120277 01
3.7900000 01	1.6083748 02	2.0321297-02	3.5009341 01	1.9586714 02
3.8000002 01	6.7856133 02	8.5798166-02	2.4076464 02	9.1941178 02
3.8050002 01	1.4128648 03	1.7866597-01	5.5639754 02	1.9674410 03
3.8100002 01	2.5237311 03	3.1915792-01	1.0543259 03	3.5783761 03
3.8150002 01	3.6359089 03	4.5981571-01	1.5790098 03	5.2153785 03
3.8180002 01	4.0333998 03	5.1008658-01	1.7854607 03	5.8193706 03
3.8200002 01	4.1128210 03	5.2013108-01	1.8429113 03	5.9562525 03
3.8220001 01	4.0292164 03	5.0955753-01	1.8276679 03	5.8573939 03
3.8250002 01	3.6269840 03	4.5868701-01	1.6775235 03	5.3049662 03
3.8300002 01	2.5137039 03	3.1788981-01	1.2079562 03	3.7239780 03
3.8350002 01	1.4073469 03	1.7796819-01	7.1944713 02	2.1269720 03
3.8400002 01	6.7697758 02	8.5597964-02	3.8224303 02	1.0593062 03
3.8500002 01	1.6055250 02	2.0285402-02	1.2712925 02	2.8770203 02
3.8600002 01	6.7699543 01	8.5422598-03	7.2516334 01	1.4022442 02
3.8800002 01	2.6820108 01	3.3722618-03	4.2544893 01	6.9368373 01
3.9000002 01	1.4736197 01	1.8440497-03	3.1604132 01	4.6342174 01
3.9200002 01	9.4314895 00	1.1732078-03	2.5939516 01	3.5372179 01
3.9400001 01	6.6347611 00	8.1955120-04	2.2476151 01	2.9111731 01
3.9600002 01	4.9922808 00	6.1187255-04	2.0127660 01	2.5120553 01
3.9700002 01	4.4204605 00	5.3957740-04	1.9209926 01	2.3630926 01
3.9800001 01	3.9624931 00	4.8168124-04	1.8412921 01	2.2375896 01
3.9900002 01	3.5937737 00	4.3507224-04	1.7711018 01	2.1305226 01
4.0000002 01	3.2969820 00	3.9755989-04	1.7084597 01	2.0381976 01
4.0100002 01	3.0599935 00	3.6761082-04	1.6518210 01	1.9578571 01
4.0200001 01	2.8746181 00	3.4418921-04	1.5999309 01	1.8874271 01
4.0300002 01	2.7358957 00	3.2666772-04	1.5517312 01	1.8253534 01
4.0400002 01	2.6418311 00	3.1479408-04	1.5062866 01	1.7705012 01
4.0600002 01	2.5962675 00	3.0907687-04	1.4201534 01	1.6798111 01
4.0800002 01	2.8065514 00	3.3571661-04	1.3339624 01	1.6146511 01
4.1000002 01	3.5216000 00	4.2619392-04	1.2364920 01	1.5886946 01
4.1200002 01	5.7595635 00	7.0927484-04	1.1027100 01	1.6787372 01
4.1400002 01	2.2178042 01	2.7857734-03	8.6418822 00	3.0822710 01
4.1500002 01	1.0608466 02	1.3397515-02	9.4118221 00	1.1550988 02
4.1550002 01	2.2474623 02	2.8404722-02	1.4183426 01	2.3895806 02
4.1600002 01	4.0057461 02	5.0641858-02	2.4209627 01	4.2483487 02
4.1630002 01	5.1109215 02	6.4619079-02	3.2228457 01	5.4338523 02
4.1650001 01	5.7375198 02	7.2543713-02	3.7775975 01	6.1160049 02
4.1670002 01	6.1983719 02	7.8372136-02	4.2911137 01	6.6282670 02
4.1690002 01	6.4419335 02	8.1452481-02	4.7245460 01	6.9152026 02
4.1700001 01	6.4747818 02	8.1867918-02	4.8969371 01	6.9652942 02
4.1710002 01	6.4386993 02	8.1411585-02	5.0316370 01	6.9426771 02
4.1730002 01	6.1895059 02	7.8260021-02	5.1953524 01	6.7098237 02
4.1750002 01	5.7240826 02	7.2373790-02	5.2019599 01	6.2450023 02
4.1770002 01	5.0953816 02	6.4422580-02	5.0698704 01	5.6030129 02
4.1800002 01	3.9903129 02	5.0446717-02	4.6630435 01	4.4571217 02
4.1850002 01	2.2384574 02	2.8290902-02	3.7478738 01	2.6135277 02
4.1900002 01	1.0573581 02	1.3353482-02	2.9336586 01	1.3508575 02
4.2000002 01	2.1936508 01	2.7553571-03	2.0999547 01	4.2938810 01
4.2200002 01	5.2673418 00	6.4977025-04	1.6929434 01	2.2217425 01
4.2400001 01	2.8662910 00	3.4362118-04	1.5522691 01	1.8389325 01
4.2600002 01	1.9351235 00	2.2589823-04	1.4719113 01	1.6654463 01
4.2800001 01	1.4642792 00	1.6639237-04	1.4170807 01	1.5635253 01
4.3000002 01	1.1868857 00	1.3135210-04	1.3758514 01	1.4945531 01
4.3200002 01	1.0062842 00	1.0855288-04	1.3429075 01	1.4435468 01



TABLE I (continued)

T = 0.0263 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
4.3400002 01	8.8011205-01	9.2637138-05	1.3154824 01	1.4035028 01
4.3600002 01	7.8725601-01	8.0934625-05	1.2919734 01	1.3707071 01
4.3800002 01	7.1615946-01	7.1983785-05	1.2713798 01	1.3430029 01
4.4000002 01	6.6001640-01	6.4923861-05	1.2530348 01	1.3190429 01
4.4200002 01	6.1458472-01	5.9218368-05	1.2364752 01	1.2979395 01
4.4500002 01	5.6070453-01	5.2464039-05	1.2142724 01	1.2703481 01
4.5000002 01	4.9596402-01	4.4374919-05	1.1824980 01	1.2320988 01
4.6000002 01	4.1780154-01	3.4682457-05	1.1315279 01	1.1733115 01
4.7000002 01	3.7416178-01	2.9350329-05	1.0904292 01	1.1278483 01
4.8000002 01	3.4839468-01	2.6273065-05	1.0548910 01	1.0897331 01
4.9000002 01	3.3349474-01	2.4564936-05	1.0225520 01	1.0559039 01
5.0000002 01	3.2610764-01	2.3801949-05	9.9191827 00	1.0245314 01
5.1000002 01	3.2457880-01	2.3775088-05	9.6192603 00	9.9438628 00
5.2000002 01	3.2819963-01	2.4394929-05	9.3172337 00	9.6454575 00
5.2500002 01	3.3189925-01	2.4942133-05	9.1630392 00	9.4949633 00
5.3000002 01	3.3690574-01	2.5653545-05	9.0054732 00	9.3424045 00
5.3500002 01	3.4329800-01	2.6539178-05	8.8435776 00	9.1869021 00
5.4000002 01	3.5119296-01	2.7613829-05	8.6763499 00	9.0275704 00
5.4500002 01	3.6075074-01	2.8897777-05	8.5027139 00	8.8634935 00
5.5000002 01	3.7218275-01	3.0417787-05	8.3214976 00	8.6937107 00
5.6000002 01	4.0184804-01	3.4315100-05	7.9309504 00	8.3328327 00
5.7000002 01	4.4349297-01	3.9723801-05	7.4920740 00	7.9356067 00
5.8000002 01	5.0271208-01	4.7351605-05	6.9879290 00	7.4906884 00
5.8500002 01	5.4174072-01	5.2355458-05	6.7043283 00	7.2461214 00
5.9000002 01	5.8939630-01	5.8449536-05	6.3947776 00	6.9842324 00
5.9500002 01	6.4831187-01	6.5966859-05	6.0545555 00	6.7029333 00
6.0000002 01	7.2225103-01	7.5383420-05	5.6778674 00	6.4001938 00
6.0500002 01	8.1674359-01	8.7398620-05	5.2575127 00	6.0743437 00
6.1000002 01	9.4019341-01	1.0307527-04	4.7845736 00	5.7248700 00
6.1500002 01	1.1058872 00	1.2409380-04	4.2480427 00	5.3540540 00
6.2000002 01	1.3358649 00	1.5324160-04	3.6347731 00	4.9707912 00
6.2500002 01	1.6689428 00	1.9542784-04	2.9304978 00	4.5996359 00
6.3000002 01	2.1788539 00	2.5997756-04	2.1249237 00	4.3040376 00
6.3500002 01	3.0204002 00	3.6646872-04	1.2315996 00	4.2523662 00
6.4000002 01	4.5668277 00	5.6210583-04	3.6830823-01	4.9356980 00
6.4200002 01	5.5762545 00	6.8979237-04	1.2606032-01	5.7030046 00
6.4300000 01	6.2211897 00	7.7136948-04	6.1468518-02	6.2834296 00
6.4400001 01	6.9924361 00	8.6892120-04	5.7520506-02	7.0508255 00
6.4500002 01	7.9257629 00	9.8697134-04	1.4100422-01	8.0677542 00
6.4600002 01	9.0706820 00	1.1317814-03	3.5119688-01	9.4230106 00
6.4800001 01	1.2307971 01	1.5412266-03	1.4183958 00	1.3727908 01
6.5000002 01	1.7783906 01	2.2337945-03	4.2527160 00	2.2038856 01
6.5200001 01	2.8262986 01	3.5591133-03	1.1664187 01	3.9930731 01
6.5400002 01	5.3128105 01	6.7038428-03	3.4184935 01	8.7319743 01
6.5500002 01	8.2765373 01	1.0452095-02	6.5541166 01	1.4831699 02
6.5600001 01	1.5808095 02	1.9977314-02	1.5554853 02	3.1364946 02
6.5700002 01	4.1182687 02	5.2068724-02	4.8971964 02	9.0159858 02
6.5800000 01	1.1745756 03	1.4853401-01	1.5508966 03	2.7256207 03
6.5900001 01	2.5057158 03	3.1688414-01	3.4769477 03	5.9829803 03
6.5950001 01	3.0628284 03	3.6734250-01	4.3206729 03	7.3838886 03
6.6000002 01	3.2760235 03	4.1430539-01	4.6895019 03	7.9659396 03
6.6050000 01	3.0583119 03	3.8677134-01	4.4423321 03	7.5010307 03
6.6100002 01	2.4990745 03	3.1604426-01	3.6902270 03	6.1896176 03
6.6200002 01	1.1708535 03	1.4806530-01	1.8149654 03	2.9859670 03
6.6300000 01	4.1112750 02	5.1980346-02	7.0015321 02	1.1113327 03
6.6400002 01	1.5777117 02	1.9938225-02	3.0959548 02	4.6738658 02
6.6500002 01	8.2418399 01	1.0408328-02	1.8425151 02	2.6668032 02
6.6600001 01	5.2830723 01	6.6663690-03	1.3093617 02	1.8377356 02
6.6800000 01	2.8092529 01	3.5377372-03	8.2495234 01	1.1059130 02
6.7000002 01	1.7713184 01	2.2250770-03	6.0006335 01	7.7721744 01
6.7200002 01	1.2320185 01	1.5430434-03	4.7194735 01	5.9516462 01
6.7400001 01	9.1575382 00	1.1430837-03	3.8978743 01	4.8137424 01
6.7600000 01	7.1507267 00	8.8930307-04	3.3270961 01	4.0422577 01

TABLE I (continued)

T = 0.0253 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
6.7800000 01	5.8064307 00	7.1931101-04	2.9064810 01	3.4871960 01
6.8000002 01	4.8717259 00	6.0112011-04	2.5818312 01	3.0690639 01
6.8500002 01	3.5422104 00	4.3302945-04	2.0103295 01	2.3645938 01
6.8800001 01	3.1503007 00	3.8349648-04	1.7600095 01	2.0750779 01
6.9000002 01	3.0016280 00	3.6471508-04	1.6145696 01	1.9147689 01
6.9200002 01	2.9303651 00	3.5572358-04	1.4802971 01	1.7733692 01
6.9500002 01	2.9647687 00	3.6010625-04	1.2912865 01	1.5877994 01
6.9800000 01	3.1911453 00	3.8876764-04	1.1073077 01	1.4264611 01
7.0000002 01	3.4818613 00	4.2555556-04	9.8237553 00	1.3306042 01
7.0300001 01	4.2374847 00	5.2115076-04	7.8382581 00	1.2076264 01
7.0500002 01	5.0839958 00	6.2823015-04	6.3936570 00	1.1478281 01
7.0700002 01	6.4136544 00	7.9641338-04	4.8210092 00	1.1235460 01
7.0900002 01	8.6210796 00	1.0756080-03	3.1279628 00	1.1750118 01
7.1000002 01	1.0303688 01	1.2884189-03	2.2709056 00	1.2575882 01
7.1100001 01	1.2637548 01	1.5835937-03	1.4695624 00	1.4108694 01
7.1200002 01	1.6013345 01	2.0105428-03	8.4920650-01	1.6864562 01
7.1300000 01	2.1189069 01	2.6651299-03	7.1066396-01	2.1902498 01
7.1350000 01	2.4912037 01	3.1359812-03	1.0363120 00	2.5951485 01
7.1400001 01	2.9877384 01	3.7639567-03	1.8839591 00	3.1765107 01
7.1500002 01	4.7325639 01	5.9706578-03	7.5275071 00	5.4859116 01
7.1600002 01	9.7227789 01	1.2281822-02	3.4867619 01	1.3210769 02
7.1700002 01	2.8391472 02	3.5892239-02	1.6852698 02	4.5247759 02
7.1800000 01	8.5595132 02	1.0823805-01	6.2820904 02	1.4842686 03
7.1850001 01	1.3265727 03	1.6775781-01	1.0271991 03	2.3539395 03
7.1900002 01	1.8363579 03	2.3223065-01	1.4773585 03	3.3139486 03
7.1950002 01	2.2407996 03	2.8338062-01	1.8583344 03	4.0994174 03
7.1980001 01	2.3698882 03	2.9970659-01	1.9979925 03	4.3681804 03
7.2000002 01	2.3946922 03	3.0286688-01	2.0408438 03	4.4360389 03
7.2020001 01	2.3685540 03	2.9953839-01	2.0402614 03	4.4091189 03
7.2050000 01	2.2377678 03	2.8299723-01	1.9600707 03	4.1981215 03
7.2100001 01	1.8318665 03	2.3166265-01	1.6555535 03	3.4876516 03
7.2150001 01	1.3225960 03	1.6725491-01	1.2437287 03	2.5664919 03
7.2200001 01	8.5343829 02	1.0792026-01	8.4787408 02	1.7014203 03
7.2300000 01	2.8352789 02	3.5843378-02	3.4188439 02	6.2544813 02
7.2400002 01	9.7018590 01	1.2255444-02	1.6002207 02	2.5705291 02
7.2500002 01	4.6985911 01	5.9277923-03	1.0288970 02	1.4988154 02
7.2600002 01	2.9500824 01	3.7164526-03	7.9026140 01	1.0853068 02
7.2700002 01	2.0800911 01	2.6161789-03	6.5535489 01	8.6339016 01
7.2800000 01	1.5612424 01	1.9599975-03	5.6679655 01	7.2294038 01
7.2900001 01	1.2219499 01	1.5309025-03	5.0389172 01	6.2610201 01
7.3000002 01	9.8644892 00	1.2330728-03	4.5683408 01	5.5549130 01
7.3200002 01	6.8773750 00	8.5531028-04	3.9103938 01	4.5982168 01
7.3400002 01	5.1151463 00	6.3245964-04	3.4713810 01	3.9829588 01
7.3600001 01	3.9843612 00	4.8946789-04	3.1567437 01	3.5552288 01
7.3800000 01	3.2134550 00	3.9199030-04	2.9194715 01	3.2408562 01
7.4000002 01	2.6631801 00	3.2241594-04	2.7335794 01	2.9999296 01
7.4500002 01	1.8173284 00	2.1548823-04	2.4051866 01	2.5869409 01
7.5000002 01	1.3540112 00	1.5693947-04	2.1878342 01	2.3232510 01
7.6000002 01	8.8522868-01	9.7745409-05	1.9110581 01	1.9995907 01
7.7000002 01	6.6282249-01	6.9708919-05	1.7357432 01	1.8020324 01
7.8000002 01	5.4061024-01	5.4342291-05	1.6096852 01	1.6637516 01
7.9000002 01	4.6628130-01	4.5282763-05	1.5109287 01	1.5577613 01
8.0000002 01	4.2493601-01	3.9887186-05	1.4283092 01	1.4708068 01
8.0500002 01	4.1092333-01	3.8157574-05	1.3908930 01	1.4319891 01
8.1000002 01	4.0110465-01	3.6957988-05	1.3552374 01	1.3953516 01
8.1500002 01	3.9512461-01	3.6243499-05	1.3208306 01	1.3603466 01
8.2000002 01	3.9283973-01	3.5995962-05	1.2872068 01	1.3264943 01
8.3000002 01	3.9982146-01	3.6960705-05	1.2205471 01	1.2605329 01
8.4000002 01	4.2553677-01	4.0293260-05	1.1515698 01	1.1941275 01
8.5000002 01	4.7992515-01	4.7250725-05	1.0755912 01	1.1235884 01
8.5500002 01	5.2463725-01	5.2944439-05	1.0328492 01	1.0853182 01
8.6000002 01	5.8832373-01	6.1037531-05	9.8518891 00	1.0440274 01
8.6500002 01	6.8163880-01	7.2877432-05	9.3056062 00	9.9873177 00

TABLE I (continued)

T = 0.0263 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
8.7000002 01	8.2466313-01	9.1003769-05	8.6580722 00	9.4828263 00
8.7500002 01	1.0591712 00	1.2069978-04	7.8573865 00	8.9166785 00
8.7800000 01	1.2804132 00	1.4870283-04	7.2677903 00	8.5483522 00
8.8000002 01	1.4850689 00	1.7460064-04	6.8111164 00	8.2963598 00
8.8200002 01	1.7605828 00	2.0945988-04	6.2883572 00	8.0491494 00
8.8400002 01	2.1450325 00	2.5809629-04	5.6813694 00	7.8266600 00
8.8600000 01	2.7068430 00	3.2916354-04	4.9656166 00	7.6727887 00
8.8800002 01	3.5800231 00	4.3960984-04	4.1089353 00	7.6893980 00
8.9000002 01	5.0604108 00	6.2684998-04	3.0759471 00	8.1369847 00
8.9200002 01	7.9328689 00	9.9014605-04	1.8714776 00	9.8053366 00
8.9300000 01	1.0579652 01	1.3248935-03	1.2843931 00	1.1865370 01
8.9400001 01	1.5260330 01	1.9168689-03	9.9418595-01	1.6256433 01
8.9450002 01	1.9367321 01	2.4362860-03	1.2988300 00	2.0668587 01
8.9500002 01	2.6236579 01	3.3050494-03	2.5430190 00	2.8782903 01
8.9550000 01	3.8917704 01	4.9088420-03	6.0838416 00	4.5006455 01
8.9600002 01	6.3559021 01	8.0252475-03	1.4819919 01	7.8386965 01
8.9700002 01	1.9720587 02	2.4927650-02	7.2211811 01	2.6944261 02
8.9800001 01	5.4234418 02	6.8577506-02	2.3767695 02	7.8008970 02
8.9850001 01	7.9349079 02	1.0034015-01	3.6515427 02	1.1587454 03
8.9900002 01	1.0486840 03	1.3261460-01	5.0065478 02	1.5494714 03
8.9950002 01	1.2403623 03	1.5685627-01	6.1059715 02	1.8511163 03
8.9980001 01	1.3020101 03	1.6465291-01	6.5192466 02	1.9540994 03
9.0000002 01	1.3136439 03	1.6612425-01	6.6515479 02	1.9789648 03
9.0020001 01	1.3014704 03	1.6458465-01	6.6647292 02	1.9681079 03
9.0050000 01	1.2390672 03	1.5669249-01	6.4574001 02	1.8849639 03
9.0100000 01	1.0467529 03	1.3237038-01	5.6356153 02	1.6104468 03
9.0150001 01	7.9164293 02	1.0010648-01	4.4376477 02	1.2355078 03
9.0200001 01	5.4124535 02	6.8438568-02	3.2033422 02	8.6164801 02
9.0300000 01	1.9740310 02	2.4952638-02	1.4112561 02	3.3855366 02
9.0400002 01	6.4132137 01	8.0977870-03	6.4906123 01	1.2904636 02
9.0500002 01	2.6902722 01	3.3893688-03	3.9711748 01	6.6617860 01
9.0600001 01	1.6088199 01	2.0216563-03	3.0110638 01	4.6200858 01
9.0700002 01	1.1640067 01	1.4591054-03	2.4933235 01	3.6574761 01
9.0800000 01	9.2847932 00	1.1612398-03	2.1437619 01	3.0723573 01
9.0900001 01	7.9523256 00	9.9272699-04	1.8787494 01	2.6740812 01
9.0950001 01	7.5397063 00	9.4054829-04	1.7655655 01	2.5196302 01
9.1000002 01	7.2625419 00	9.0549871-04	1.6611302 01	2.3874749 01
9.1050000 01	7.1087018 00	8.8604599-04	1.5631772 01	2.2741360 01
9.1100002 01	7.0741777 00	8.8168322-04	1.4698051 01	2.1773111 01
9.1200002 01	7.3884125 00	9.2143169-04	1.2904353 01	2.0293687 01
9.1300000 01	8.3729278 00	1.0459509-03	1.1116341 01	1.9490315 01
9.1400002 01	1.0622465 01	1.3304583-03	9.2557507 00	1.9879546 01
9.1500002 01	1.6793822 01	2.1109606-03	7.5917952 00	2.4367728 01
9.1600001 01	4.0070457 01	5.0547776-03	8.9275282 00	4.7003040 01
9.1700001 01	1.2686223 02	1.6031391-02	2.5809607 01	1.5268787 02
9.1800000 01	3.5279292 02	4.4604983-02	8.3559945 01	4.3639747 02
9.1850000 01	5.1564780 02	6.5201340-02	1.3062747 02	6.4634047 02
9.1900002 01	6.8373508 02	8.6459441-02	1.8362000 02	8.6744154 02
9.1950002 01	8.0631971 02	1.0196279-01	2.2858332 02	1.0350050 03
9.1980002 01	8.4891460 02	1.0734980-01	2.4837794 02	1.0973999 03
9.2000002 01	8.5647295 02	1.0830570-01	2.5605404 02	1.1126353 03
9.2020002 01	8.4851150 02	1.0729881-01	2.5937100 02	1.1079898 03
9.2050000 01	8.0534561 02	1.0183960-01	2.5509475 02	1.0605422 03
9.2100002 01	6.8224203 02	8.6270632-02	2.3105823 02	9.1338653 02
9.2150002 01	5.1401291 02	6.4994603-02	1.8964497 02	7.0372287 02
9.2200002 01	3.5154237 02	4.4446856-02	1.4540305 02	4.7998987 02
9.2300000 01	1.2610863 02	1.5936123-02	7.6594574 01	2.0271914 02
9.2400001 01	3.9185828 01	4.9429536-03	4.4933166 01	8.4123937 01
9.2500002 01	1.5549715 01	1.9536872-03	3.3374017 01	4.8925685 01
9.2600000 01	9.0083844 00	1.1264080-03	2.8489917 01	3.7499428 01
9.2700002 01	6.3447783 00	7.8954715-04	2.5694543 01	3.2040111 01
9.2800000 01	4.8535586 00	6.0095869-04	2.3775383 01	2.8629542 01
9.3000002 01	3.2282374 00	3.9541707-04	2.1212978 01	2.4441610 01

TABLE I (continued)

T = 0.0253 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
9.3200002 01	2.3807894 00	2.8825345-04	1.9528516 01	2.1909594 01
9.3500002 01	1.6932151 00	2.0131599-04	1.7807107 01	1.9500523 01
9.4000002 01	1.1511340 00	1.3279252-04	1.5960962 01	1.7112229 01
9.4500002 01	8.9481556-01	1.0040939-04	1.4713401 01	1.5608317 01
9.5000002 01	7.5622650-01	8.2915284-05	1.3760417 01	1.4516726 01
9.6000002 01	6.3437896-01	6.7571043-05	1.2275768 01	1.2910214 01
9.7000002 01	6.1547143-01	6.5244678-05	1.1019718 01	1.1635254 01
9.7500002 01	6.3246613-01	6.7426079-05	1.0409823 01	1.1042356 01
9.8000002 01	6.6691171-01	7.1814263-05	9.7869016 00	1.0453885 01
9.8500002 01	7.2152848-01	7.8753267-05	9.1335345 00	9.8551417 00
9.9000002 01	8.0183564-01	8.8941114-05	8.4311361 00	9.2330606 00
1.0000002 02	1.0856232 00	1.2489390-04	6.7883221 00	7.8740702 00
1.0050002 02	1.3364922 00	1.5665211-04	5.7887253 00	7.1253741 00
1.0100002 02	1.7287691 00	2.0629402-04	4.6195925 00	6.3485679 00
1.0150002 02	2.3865153 00	2.8950981-04	3.2427639 00	5.6295687 00
1.0180002 02	3.0188850 00	3.6950401-04	2.3167860 00	5.3360405 00
1.0200002 02	3.6113717 00	4.4444815-04	1.6748500 00	5.2866661 00
1.0230002 02	4.9350572 00	6.1187332-04	7.5569931-01	5.6913683 00
1.0250002 02	6.3097451 00	7.8574280-04	2.9855117-01	6.6090820 00
1.0270002 02	8.4017268 00	1.0503287-03	2.1971764-01	8.6224947 00
1.0280002 02	9.8869750 00	1.2381749-03	4.7825391-01	1.0366467 01
1.0290002 02	1.1828466 01	1.4837223-03	1.1020793 00	1.2932029 01
1.0300002 02	1.4441038 01	1.8141417-03	2.3295328 00	1.6772385 01
1.0310002 02	1.8089816 01	2.2756107-03	4.5946545 00	2.2686746 01
1.0320002 02	2.3449386 01	2.9534450-03	8.7573065 00	3.2209646 01
1.0330002 02	3.1946754 01	4.0281178-03	1.6779642 01	4.8730424 01
1.0340002 02	4.7356265 01	5.9769737-03	3.4323627 01	8.1685868 01
1.0350002 02	8.2201244 01	1.0383844-02	8.1793882 01	1.6400551 02
1.0360002 02	1.7765102 02	2.2455436-02	2.3046254 02	4.0813601 02
1.0370002 02	4.2953756 02	5.4311688-02	6.5486593 02	1.0844578 03
1.0380002 02	9.3110931 02	1.1774576-01	1.5431934 03	2.4744204 03
1.0385002 02	1.2484775 03	1.5788351-01	2.1246140 03	3.3732494 03
1.0390002 02	1.5484683 03	1.9582351-01	2.6914664 03	4.2401305 03
1.0395002 02	1.7654766 03	2.2326870-01	3.1249172 03	4.8906171 03
1.0400002 02	1.8443466 03	2.3324343-01	3.3199764 03	5.1645562 03
1.0405002 02	1.7636813 03	2.2304164-01	3.2288880 03	4.9927923 03
1.0410002 02	1.5455144 03	1.9544995-01	2.8818078 03	4.4275176 03
1.0415002 02	1.2453042 03	1.5748218-01	2.3721730 03	3.6176347 03
1.0420002 02	9.2844747 02	1.1740914-01	1.8161405 03	2.7447054 03
1.0430002 02	4.2850851 02	5.4181575-02	9.0845801 02	1.3370207 03
1.0440002 02	1.7739726 02	2.2423388-02	4.3093847 02	6.0835816 02
1.0450002 02	8.2045641 01	1.0364223-02	2.3750383 02	3.1955984 02
1.0460002 02	4.7182069 01	5.9550127-03	1.5998367 02	2.0717169 02
1.0480002 02	2.3297338 01	2.9343076-03	9.9850369 01	1.2315064 02
1.0500002 02	1.4319712 01	1.7989135-03	7.4021751 01	8.8343262 01
1.0550002 02	6.2336147 00	7.7628881-04	4.6952218 01	5.3186608 01
1.0600002 02	3.5597370 00	4.3815023-04	3.5911894 01	3.9472068 01
1.0700002 02	1.7058140 00	2.0373953-04	2.6173626 01	2.7879644 01
1.0800002 02	1.0827249 00	1.2499238-04	2.1591427 01	2.2674277 01
1.0900002 02	8.1812557-01	9.1582901-05	1.8757987 01	1.9576204 01
1.0950002 02	7.4848102-01	8.2801899-05	1.7651421 01	1.8399985 01
1.0980002 02	7.2011398-01	7.9230418-05	1.7046500 01	1.7766693 01
1.1000002 02	7.0599670-01	7.7455702-05	1.6661454 01	1.7367528 01
1.1020002 02	6.9542666-01	7.6129577-05	1.6287943 01	1.6983445 01
1.1050002 02	6.8589563-01	7.4940139-05	1.5744316 01	1.6430287 01
1.1100002 02	6.8648319-01	7.5040904-05	1.4865068 01	1.5551626 01
1.1150002 02	7.0884574-01	7.7895379-05	1.3992900 01	1.4701824 01
1.1200002 02	7.5739124-01	8.4061055-05	1.3096697 01	1.3854172 01
1.1250002 02	8.4171312-01	9.4751228-05	1.2140808 01	1.2982616 01
1.1300002 02	9.8122838-01	1.1242156-04	1.1078696 01	1.2060037 01
1.1350002 02	1.2172436 00	1.4229613-04	9.8418412 00	1.1059227 01
1.1380002 02	1.4416004 00	1.7068594-04	8.9718840 00	1.0413655 01
1.1400002 02	1.6491794 00	1.9694873-04	6.3172580 00	9.9666343 00

TABLE I (continued)

T = 0.0263 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
1.1420002 02	1.9282967 00	2.3225898-04	7.5855197 00	9.5140486 00
1.1440002 02	2.3172127 00	2.8145552-04	6.7565006 00	9.0739948 00
1.1460002 02	2.8850998 00	3.5328666-04	5.8040523 00	8.6895054 00
1.1480002 02	3.7690591 00	4.6509153-04	4.6962692 00	8.4657933 00
1.1500002 02	5.2781265 00	6.5595414-04	3.4072600 00	8.6860425 00
1.1520002 02	8.2748493 00	1.0349615-03	2.0028218 00	1.0278706 01
1.1530002 02	1.1192260 01	1.4039330-03	1.4597831 00	1.2653447 01
1.1540002 02	1.7027814 01	2.1419639-03	1.8295190 00	1.8859475 01
1.1545002 02	2.2808882 01	2.8731015-03	3.2646779 00	2.6076433 01
1.1550002 02	3.2992384 01	4.1610179-03	6.9447459 00	3.9941291 01
1.1560002 02	8.4686839 01	1.0698851-02	3.2075853 01	1.1677339 02
1.1570002 02	2.3033204 02	2.9118690-02	1.1491803 02	3.4527918 02
1.1580002 02	5.2324094 02	6.6163058-02	2.9592941 02	8.1923651 02
1.1585002 02	7.0634550 02	8.9320404-02	4.1521787 02	1.1216527 03
1.1590002 02	8.7779208 02	1.1100335-01	5.3217561 02	1.4100787 03
1.1595002 02	1.0024193 03	1.2676503-01	6.2424514 02	1.6267912 03
1.1598002 02	1.0409143 03	1.3163351-01	6.5823977 02	1.6992857 03
1.1600002 02	1.0483042 03	1.3256812-01	6.6955433 02	1.7179911 03
1.1602002 02	1.0405346 03	1.3158550-01	6.7130091 02	1.7119671 03
1.1605002 02	1.0015982 03	1.2666118-01	6.5641943 02	1.6581443 03
1.1610002 02	8.7642120 02	1.1082998-01	5.9080567 02	1.4673377 03
1.1615002 02	7.0487843 02	8.9134879-02	4.9125852 02	1.1962261 03
1.1620002 02	5.2216157 02	6.6026567-02	3.7963763 02	9.0186523 02
1.1630002 02	2.3027489 02	2.9111492-02	1.9153395 02	4.2183795 02
1.1640002 02	8.5175558 01	1.0760698-02	9.0804351 01	1.7599067 02
1.1650002 02	3.3641319 01	4.2431383-03	5.0642162 01	8.4287724 01
1.1660002 02	1.7787621 01	2.2381163-03	3.5468712 01	5.3258571 01
1.1670002 02	1.2103612 01	1.5192614-03	2.8309870 01	4.0415001 01
1.1680002 02	9.3662869 00	1.1730751-03	2.3889346 01	3.3256806 01
1.1700002 02	6.7984697 00	8.4833173-04	1.8189371 01	2.4988689 01
1.1720002 02	5.8428559 00	7.2748441-04	1.4298357 01	2.0141940 01
1.1730002 02	5.6936071 00	7.0861369-04	1.2673881 01	1.8368197 01
1.1740002 02	5.7131497 00	7.1109007-04	1.1170690 01	1.6884551 01
1.1750002 02	5.8919824 00	7.3371195-04	9.7459230 00	1.5638639 01
1.1760002 02	6.2374589 00	7.7740945-04	8.3698796 00	1.4608116 01
1.1770002 02	6.7744077 00	8.4532248-04	7.0234520 00	1.3798705 01
1.1780002 02	7.5497994 00	9.4339161-04	5.6994212 00	1.3250164 01
1.1800002 02	1.0192907 01	1.2776765-03	3.1880453 00	1.3382230 01
1.1820002 02	1.5843337 01	1.9922994-03	1.5611466 00	1.7406476 01
1.1830002 02	2.1488928 01	2.7063054-03	2.2417367 00	2.3733371 01
1.1840002 02	3.2624377 01	4.1146174-03	7.2845722 00	3.9913064 01
1.1850002 02	6.0758827 01	7.6728028-03	2.9519451 01	9.0285951 01
1.1860002 02	1.4164525 02	1.7902559-02	1.1281272 02	2.5447587 02
1.1870002 02	3.4802149 02	4.4003095-02	3.5393542 02	7.0200091 02
1.1880002 02	7.3351652 02	9.2756881-02	8.4018753 02	1.5737968 03
1.1885002 02	9.6675594 02	1.2225480-01	1.1502364 03	2.1171146 03
1.1890002 02	1.1820665 03	1.4948526-01	1.4505385 03	2.6327544 03
1.1895002 02	1.3353412 03	1.6887001-01	1.6833869 03	3.0188970 03
1.1900002 02	1.3906375 03	1.7586337-01	1.7980365 03	3.1888499 03
1.1905002 02	1.3341301 03	1.6871684-01	1.7696934 03	3.1039922 03
1.1910002 02	1.1800209 03	1.4922656-01	1.6094306 03	2.7896007 03
1.1915002 02	9.6447860 02	1.2196680-01	1.3587358 03	2.3233363 03
1.1920002 02	7.3151471 02	9.2503727-02	1.0726222 03	1.8042294 03
1.1930002 02	3.4707401 02	4.3883293-02	5.7444317 02	9.2156107 02
1.1940002 02	1.4124717 02	1.7852252-02	2.8864370 02	4.2990872 02
1.1950002 02	6.0374619 01	7.6242591-03	1.6522276 02	2.2560500 02
1.1960002 02	3.2129263 01	4.0520568-03	1.1545820 02	1.4759152 02
1.1970002 02	2.0897831 01	2.6316156-03	9.1991137 01	1.1289160 02
1.1980002 02	1.5164295 01	1.9064966-03	7.8223211 01	9.3389412 01
1.2000002 02	9.3102863 00	1.1661460-03	6.2135645 01	7.1447097 01

TABLE II

Pu<sup>240</sup> CROSS SECTIONSPu<sup>240</sup> Temperature = 0.05 ev

Neutron Energy, E <sub>n</sub> (ev)	Radiative Capture Cross Section, σ <sub>γ</sub> (barns)	Fission Cross Section, σ <sub>F</sub> (barns)	Scattering Cross Section, σ <sub>S</sub> (barns)	Total Cross Section, σ <sub>T</sub> (barns)
2.5300002-02	2.8408616 02	4.8776272-02	1.8377556 00	2.8597270 02
3.5000002-02	2.4602569 02	4.2259321-02	1.7872619 00	2.4785521 02
5.0000007-02	2.1186798 02	3.6415668-02	1.7104048 00	2.1361480 02
6.0000005-02	1.9721561 02	3.3911677-02	1.6593180 00	1.9890884 02
8.0000007-02	1.7769505 02	3.0580738-02	1.5569685 00	1.7928260 02
1.0000002-01	1.6549929 02	2.8505354-02	1.4541760 00	1.6698197 02
1.5000002-01	1.5011476 02	2.5907013-02	1.1954828 00	1.5133615 02
2.0000002-01	1.4531989 02	2.5126860-02	9.3708285-01	1.4628210 02
2.5000002-01	1.4630503 02	2.5342362-02	6.8469869-01	1.4701507 02
3.0000005-01	1.5151572 02	2.6289084-02	4.4741240-01	1.5198942 02
3.5000002-01	1.6055879 02	2.7902070-02	2.3934799-01	1.6082604 02
4.0000006-01	1.7366459 02	3.0224057-02	8.2616601-02	1.7377743 02
4.2000002-01	1.8019180 02	3.1377584-02	4.1542264-02	1.8026472 02
4.4000006-01	1.8755180 02	3.2676936-02	1.7072440-02	1.8760155 02
4.5000005-01	1.9157064 02	3.3385971-02	1.2174868-02	1.9161620 02
4.6000002-01	1.9583175 02	3.4137474-02	1.2903465-02	1.9587879 02
4.8000003-01	2.0513769 02	3.5777878-02	3.3491305-02	2.0520696 02
5.0000002-01	2.1559793 02	3.7620726-02	8.4388556-02	2.1571994 02
5.5000002-01	2.4789857 02	4.3306980-02	3.9231238-01	2.4833419 02
6.0000002-01	2.9196171 02	5.1058125-02	1.0950029 00	2.9310777 02
6.5000002-01	3.5361379 02	6.1897983-02	2.4756921 00	3.5615138 02
7.0000002-01	4.4308959 02	7.7624821-02	5.0667348 00	4.4823395 02
7.5000002-01	5.7968948 02	1.0162935-01	9.9421940 00	5.8973330 02
8.0000002-01	8.0350075 02	1.4095416-01	1.9485465 01	8.2312718 02
8.5000002-01	1.2099282 03	2.1235954-01	3.9748441 01	1.2498890 03
9.0000002-01	2.0782145 03	3.6490182-01	8.9625516 01	2.1682049 03
9.2000002-01	2.7355670 03	4.8038480-01	1.3069473 02	2.8667421 03
9.4000002-01	3.7937554 03	6.6628462-01	2.0032774 02	3.9947494 03
9.6000002-01	5.6910979 03	9.9960375-01	3.3197769 02	6.0240753 03
9.8000002-01	9.7283382 03	1.7068505 00	6.2838197 02	1.0358429 04
1.0000002 00	2.0137216 04	3.5374390 00	1.4370946 03	2.1577848 04
1.0100002 00	3.0521867 04	5.3617698 00	2.2719300 03	3.2799159 04
1.0200002 00	4.5759195 04	8.0385998 00	3.5242622 03	4.9291496 04
1.0300002 00	6.4978797 04	1.1415016 01	5.1401134 03	7.0130326 04
1.0400002 00	8.4329854 04	1.4814529 01	6.8150498 03	9.1159718 04
1.0500002 00	9.2163252 04	1.6190666 01	7.5181844 03	9.9697627 04
1.0500002 00	9.7723356 04	1.7167441 01	8.0423169 03	1.0578284 05
1.0530002 00	9.9714315 04	1.7517203 01	8.2482583 03	1.0798009 05
1.0550002 00	1.0042709 05	1.7642419 01	8.3352375 03	1.0877997 05
1.0575002 00	1.0060452 05	1.7673588 01	8.3849768 03	1.0900717 05
1.0600002 00	9.9987062 04	1.7565118 01	8.3684233 03	1.0837305 05
1.0620002 00	9.8932891 04	1.7379926 01	8.3080293 03	1.0725830 05
1.0650002 00	9.6465362 04	1.6946444 01	8.1421415 03	1.0462445 05
1.0700002 00	9.0258259 04	1.5856008 01	7.6850044 03	9.7959120 04
1.0800002 00	7.2528825 04	1.2741379 01	6.2947020 03	7.8836268 04
1.0900002 00	5.2872607 04	9.2882569 00	4.6946078 03	5.7576503 04
1.1000002 00	3.6002826 04	6.3246495 00	3.2878106 03	3.9296961 04
1.1100002 00	2.3773285 04	4.1762162 00	2.2464989 03	2.6023960 04
1.1200002 00	1.5819359 04	2.7789058 00	1.5548810 03	1.7377019 04
1.1400002 00	7.8961765 03	1.3869971 00	8.4381876 02	8.7413822 03
1.1500002 00	5.9761215 03	1.0496911 00	6.6470629 02	6.6418774 03
1.1700002 00	3.7900119 03	6.6564620-01	4.5413993 02	4.2448175 03
1.2000002 00	2.2421683 03	3.9372995-01	2.9763240 02	2.5401944 03
1.2500002 00	1.1715626 03	2.0565380-01	1.8186194 02	1.3536302 03
1.3000002 00	7.1567975 02	1.2556935-01	1.2837732 02	8.4418263 02
1.3500002 00	4.7998710 02	8.4166862-02	9.8578752 01	5.7865002 02
1.4000002 00	3.4273605 02	6.0057955-02	7.9968080 01	4.2276419 02
1.4500002 00	2.5604087 02	4.4830371-02	6.7408710 01	3.2349441 02
1.5000002 00	1.9793049 02	3.4624290-02	5.8444036 01	2.5640915 02
1.6000002 00	1.2754121 02	2.2263243-02	4.6626496 01	1.7418997 02
1.7000002 00	8.8359265 01	1.5384158-02	3.9273512 01	1.2764816 02
1.8000002 00	6.4462268 01	1.1189905-02	3.4302974 01	9.8776431 01
1.9000002 00	4.8892640 01	8.4582621-03	3.0739028 01	7.9640127 01

TABLE II (continued)

T = 0.05 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
2.0000002 00	3.8227604 01	6.5879619-03	2.8068775 01	6.6302968 01
2.1000002 00	3.0628907 01	5.2561039-03	2.5998870 01	5.6633033 01
2.3000002 00	2.0820214 01	3.5384433-03	2.3008004 01	4.3831756 01
2.5000002 00	1.5001094 01	2.5209759-03	2.0957637 01	3.5961251 01
2.8000002 00	9.9294937 00	1.6362395-03	1.8866194 01	2.8797324 01
3.0000002 00	7.8492821 00	1.2744111-03	1.7868825 01	2.5719382 01
3.5000002 00	4.8246998 00	7.5069168-04	1.6149876 01	2.0975326 01
4.0000002 00	3.2919763 00	4.8756479-04	1.5054040 01	1.8346524 01
5.0000002 00	1.8754979 00	2.4805388-04	1.3729598 01	1.5605344 01
6.0000002 00	1.2689734 00	1.4833723-04	1.2947403 01	1.4216525 01
8.0000002 00	7.7553824-01	7.1076948-05	1.2033154 01	1.2808763 01
1.0000002 01	5.8630185-01	4.3976324-05	1.1475008 01	1.2061353 01
1.1000002 01	5.3512274-01	3.7244663-05	1.1254431 01	1.1789591 01
1.3000002 01	4.7983842-01	3.0703354-05	1.0862469 01	1.1342338 01
1.4000002 01	4.7159224-01	3.0108290-05	1.0671604 01	1.1143226 01
1.5000002 01	4.7868765-01	3.1514903-05	1.0469925 01	1.0948644 01
1.6000002 01	5.0997548-01	3.6009408-05	1.0240803 01	1.0750815 01
1.7000002 01	5.9141072-01	4.6854435-05	9.9522365 00	1.0543694 01
1.8000002 01	8.1519856-01	7.5698949-05	9.5233068 00	1.0338581 01
1.8500002 01	1.0880521 00	1.1047402-04	9.1874845 00	1.0275647 01
1.9000002 01	1.7111501 00	1.8954128-04	8.6591165 00	1.0370456 01
1.9200002 01	2.2085973 00	2.5255815-04	8.3423832 00	1.0551233 01
1.9400002 01	3.0433943 00	3.5823924-04	7.9142105 00	1.0957963 01
1.9600002 01	4.6145070 00	5.5704187-04	7.2967970 00	1.1911861 01
1.9800002 01	8.1833294 00	1.0084953-03	6.3190802 00	1.4503418 01
2.0000002 01	2.0455707 01	2.5606917-03	4.5584654 00	2.5016733 01
2.0200002 01	2.5801610 02	3.2605198-02	1.2090034 01	2.7013874 02
2.0220002 01	3.5702208 02	4.5126553-02	1.7617872 01	3.7468508 02
2.0230002 01	4.1696031 02	5.2706982-02	2.1170552 01	4.3818357 02
2.0240002 01	4.8403483 02	6.1196267-02	2.5295925 01	5.0944195 02
2.0250002 01	5.5829324 02	7.0581451-02	3.0013258 01	5.8837709 02
2.0300002 01	1.0124457 03	1.2801839-01	6.1843677 01	1.0744174 03
2.0350002 01	1.4644183 03	1.8517967-01	9.9478518 01	1.5640820 03
2.0370002 01	1.5852303 03	2.0045684-01	1.1203795 02	1.6974687 03
2.0390002 01	1.6486860 03	2.0848414-01	1.2122862 02	1.7701231 03
2.0400002 01	1.6561927 03	2.0943351-01	1.2425778 02	1.7806599 03
2.0410002 01	1.6470811 03	2.0828116-01	1.2614203 02	1.7734314 03
2.0430002 01	1.5806921 03	1.9988492-01	1.2638612 02	1.7072781 03
2.0450002 01	1.4577274 03	1.8433349-01	1.2215138 02	1.5800631 03
2.0500002 01	1.0049999 03	1.2707683-01	9.7490126 01	1.1026171 03
2.0550002 01	5.5439912 02	7.0089111-02	6.7082332 01	6.2155155 02
2.0600002 01	2.5716729 02	3.2498049-02	4.3953021 01	3.0115282 01
2.0800002 01	2.0192008 01	2.5277415-03	1.8919940 01	3.9114476 01
2.1000002 01	7.9687178 00	9.8195290-04	1.5476300 01	2.3446000 01
2.1200002 01	4.4485810 00	5.3685643-04	1.4011351 01	1.8460469 01
2.1400002 01	2.9067754 00	3.4195996-04	1.3179566 01	1.6086623 01
2.1600002 01	2.0909842 00	2.3888214-04	1.2637093 01	1.4728316 01
2.1600002 01	1.6065636 00	1.7771223-04	1.2251836 01	1.3858578 01
2.2000002 01	1.2953277 00	1.3844434-04	1.1961547 01	1.3257013 01
2.2200002 01	1.0835164 00	1.1174998-04	1.1733045 01	1.2816673 01
2.2500002 01	8.7342364-01	8.5318283-05	1.1465919 01	1.2339428 01
2.3000002 01	6.7299141-01	6.0197135-05	1.1142020 01	1.1815071 01
2.4000002 01	4.9622052-01	3.8281750-05	1.0714135 01	1.1210394 01
2.5000002 01	4.2509589-01	2.970920-05	1.0412399 01	1.0837525 01
2.7000002 01	3.7980669-01	2.4774028-05	9.9303806 00	1.0310212 01
2.8000002 01	3.7902496-01	2.5047653-05	9.7014581 00	1.0080508 01
2.9000002 01	3.8861227-01	2.6616923-05	9.4821194 00	9.8507581 00
3.0000002 01	4.0949276-01	2.9599726-05	9.2001468 00	9.6096691 00
3.1000002 01	4.4541960-01	3.4471721-05	8.9007760 00	9.3462301 00
3.2000002 01	5.0464282-01	4.2277057-05	8.5429479 00	9.0476329 00
3.3000002 01	6.0480975-01	5.5248312-05	8.0926371 00	8.6975019 00
3.4000002 01	7.8731627-01	7.8621532-05	7.4882804 00	8.2756733 00
3.5000002 01	1.1676704 00	1.2700569-04	6.6032631 00	7.7710605 00

TABLE II (continued)

T = 0.05 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_p$ (barns)	$\sigma_s$ (barns)	$\sigma_T$ (barns)
3.6000002 01	2.1790418 00	2.5518470-04	5.1301572 00	7.3094541 00
3.6500002 01	3.4799219 00	4.1983927-04	3.9407466 00	7.4210883 00
3.7000002 01	6.7940534 00	8.3910854-04	2.1937296 00	8.9886221 00
3.7200002 01	9.7919611 00	1.2183065-03	1.3224256 00	1.1115605 01
3.7400002 01	1.5577104 01	1.9500072-03	5.3174391-01	1.6110798 01
3.7600002 01	2.9690765 01	3.7350214-03	9.3927889-01	3.0633779 01
3.7650001 01	3.6932181 01	4.6508599-03	1.9011161 00	3.8837948 01
3.7700002 01	4.8229201 01	6.0796131-03	4.0972363 00	5.2332516 01
3.7800002 01	1.0707434 02	1.3521816-02	2.1844897 01	1.2893276 02
3.7900000 01	3.4676647 02	4.3835850-02	1.1467881 02	4.6148912 02
3.8000002 01	1.0973012 03	1.3875644-01	4.3535775 02	1.5327977 03
3.8050002 01	1.7130772 03	2.1663400-01	7.1046976 02	2.4237636 03
3.8100002 01	2.3765158 03	3.0053953-01	1.0171409 03	3.3939572 03
3.8150002 01	2.8998390 03	3.6672454-01	1.2726136 03	4.1728193 03
3.8180002 01	3.0658393 03	3.8771866-01	1.3639292 03	4.4301562 03
3.8200002 01	3.0974131 03	3.9171186-01	1.3903123 03	4.4881171 03
3.8220001 01	3.0626470 03	3.8731498-01	1.3871098 03	4.4501441 03
3.8250002 01	2.8925034 03	3.6579679-01	1.3285170 03	4.2213862 03
3.8300002 01	2.3657433 03	2.9917716-01	1.1157152 03	3.4817577 03
3.8350002 01	1.7035786 03	2.1543279-01	8.3131495 02	2.5351090 03
3.8400002 01	1.0915672 03	1.3803135-01	5.5905876 02	1.6507640 03
3.8500002 01	3.4642580 02	4.3792914-02	2.1310754 02	5.5957713 02
3.8600002 01	1.0716616 02	1.3533625-02	9.2522785 01	1.9970248 02
3.8800002 01	2.9394970 01	3.6979049-03	4.4265512 01	7.3664180 01
3.9000002 01	1.5373510 01	1.9246512-03	3.2102848 01	4.7478282 01
3.9200002 01	9.6722299 00	1.2036544-03	2.6151045 01	3.5824479 01
3.9400001 01	6.7468184 00	8.3372317-04	2.2584122 01	2.9331774 01
3.9600002 01	5.0522271 00	6.1945404-04	2.0189266 01	2.5242112 01
3.9700002 01	4.4662255 00	5.4536535-04	1.9257768 01	2.3724539 01
3.9800001 01	3.9983936 00	4.8622165-04	1.8450525 01	2.2449405 01
3.9900002 01	3.6227567 00	4.3873775-04	1.7740785 01	2.1363980 01
4.0000002 01	3.3211542 00	4.0061698-04	1.7108185 01	2.0429740 01
4.0100002 01	3.0809565 00	3.7026203-04	1.6536767 01	1.9618094 01
4.0200001 01	2.8936963 00	3.4660203-04	1.6013601 01	1.8907644 01
4.0300002 01	2.7543240 00	3.2899834-04	1.5527806 01	1.8282459 01
4.0400002 01	2.6609505 00	3.1721213-04	1.5069765 01	1.7731033 01
4.0600002 01	2.6226697 00	3.1241599-04	1.4200697 01	1.6823679 01
4.0800002 01	2.8585285 00	3.4229021-04	1.3327170 01	1.6186041 01
4.1000002 01	3.6751682 00	4.4561567-04	1.2326716 01	1.6002330 01
4.1200002 01	7.0174030 00	8.6835449-04	1.0918328 01	1.7936599 01
4.1400002 01	5.5718288 01	7.0276274-03	1.0002912 01	6.5728227 01
4.1500002 01	1.7597241 02	2.2236260-02	1.4559555 01	1.9055420 02
4.1550002 01	2.7141504 02	3.4306959-02	1.9479000 01	2.9132835 02
4.1600002 01	3.7218386 02	4.7051261-02	2.6907199 01	3.9913810 02
4.1630002 01	4.2379573 02	5.3578656-02	3.1381941 01	4.5523125 02
4.1650001 01	4.5054505 02	5.6961657-02	3.4214439 01	4.8481645 02
4.1670002 01	4.6926704 02	5.9329445-02	3.6770593 01	5.0609696 02
4.1690002 01	4.7880975 02	6.0536324-02	3.8927780 01	5.1779806 02
4.1700001 01	4.7992668 02	6.0677581-02	3.9423977 01	5.1981134 02
4.1710002 01	4.7857107 02	6.0506141-02	4.0584766 01	5.1921634 02
4.1730002 01	4.6857580 02	5.9242034-02	4.1671868 01	5.1030691 02
4.1750002 01	4.4946158 02	5.6824652-02	4.2155704 01	4.9167411 02
4.1770002 01	4.2241083 02	5.3403535-02	4.2042166 01	4.6450640 02
4.1800002 01	3.7055006 02	4.6844679-02	4.0853066 01	4.1144997 02
4.1850002 01	2.6990104 02	3.4115544-02	3.6865253 01	3.0680041 02
4.1900002 01	1.7495372 02	2.2107512-02	3.1787404 01	2.0676323 02
4.2000002 C1	5.5447651 01	6.9935310-03	2.3294445 01	7.8749089 01
4.2200002 01	6.5733436 00	8.1241163-04	1.7183759 01	2.3757915 01
4.2400001 01	3.0182115 00	3.6283462-04	1.5585040 01	1.8603614 01
4.2600002 01	1.9831606 00	2.3197351-04	1.4745941 01	1.6729333 01
4.2800001 01	1.4847088 00	1.6897613-04	1.4185226 01	1.5670104 01
4.3000002 01	1.1971742 00	1.3265329-04	1.3767354 01	1.4964661 01
4.3200002 01	1.0120924 00	1.0928745-04	1.3435004 01	1.4447205 01



TABLE II (continued)

T = 0.05 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
4.3400002 01	8.8367663-01	9.3087957-05	1.3159062 01	1.4042831 01
4.3600002 01	7.8958869-01	8.1229642-05	1.2922918 01	1.3712588 01
4.3800002 01	7.1776478-01	7.2186818-05	1.2716279 01	1.3434116 01
4.4000002 01	6.6116769-01	6.5069474-05	1.2532341 01	1.3193574 01
4.4200002 01	6.1543916-01	5.9326434-05	1.2366393 01	1.2981891 01
4.4500002 01	5.6127973-01	5.2536788-05	1.2143995 01	1.2705327 01
4.5000002 01	4.9629492-01	4.4416776-05	1.1825867 01	1.2322206 01
4.6000002 01	4.1794506-01	3.4700617-05	1.1315794 01	1.1733774 01
4.7000002 01	3.7424036-01	2.9360274-05	1.0904631 01	1.1278900 01
4.8000002 01	3.4844550-01	2.6279493-05	1.0549149 01	1.0897620 01
4.9000002 01	3.3353242-01	2.4569702-05	1.0225686 01	1.0559243 01
5.0000002 01	3.2613943-01	2.3805976-05	9.9192968 00	1.0245460 01
5.1000002 01	3.2460897-01	2.3778905-05	9.6193249 00	9.9439576 00
5.2000002 01	3.2823135-01	2.4398945-05	9.3172515 00	9.6455071 00
5.2500002 01	3.3193286-01	2.4946390-05	9.1630304 00	9.4949881 00
5.3000002 01	3.3694215-01	2.5658153-05	9.0054381 00	9.3424058 00
5.3500002 01	3.4333816-01	2.6544254-05	8.8435162 00	9.1868809 00
5.4000002 01	3.5123796-01	2.7619517-05	8.6762582 00	9.0275237 00
5.4500002 01	3.6080202-01	2.8904264-05	8.5025955 00	8.8634262 00
5.5000002 01	3.7224165-01	3.0425233-05	8.3213345 00	8.6936065 00
5.6000002 01	4.0192960-01	3.4325417-05	7.9306955 00	8.3326593 00
5.7000002 01	4.4361197-01	3.9738852-05	7.4916900 00	7.9353416 00
5.8000002 01	5.0289647-01	4.7374928-05	6.9873742 00	7.4903179 00
5.8500002 01	5.4197608-01	5.2385231-05	6.7036587 00	7.2456871 00
5.9000002 01	5.8970248-01	5.8488260-05	6.3939674 00	6.9837283 00
5.9500002 01	6.4871942-01	6.6018407-05	6.0535782 00	6.7023635 00
6.0000002 01	7.2280635-01	7.5453647-05	5.6766759 00	6.3995576 00
6.0500002 01	8.1752279-01	8.7497164-05	5.2560620 00	6.0736722 00
6.1000002 01	9.4132597-01	1.0321850-04	4.7827971 00	5.7242262 00
6.1500002 01	1.1076018 00	1.2431065-04	4.2458758 00	5.3536019 00
6.2000002 01	1.3385996 00	1.5358746-04	3.6321637 00	4.9709169 00
6.2500002 01	1.6735962 00	1.9601636-04	2.9275160 00	4.6013082 00
6.3000002 01	2.1874829 00	2.6106888-04	2.1220965 00	4.3098405 00
6.3500002 01	3.0383959 00	3.6874464-04	1.2313006 00	4.2700652 00
6.4000002 01	4.6114614 00	5.6775059-04	3.8132292-01	4.9933520 00
6.4200002 01	5.6449973 00	6.9848629-04	1.5457447-01	5.8002703 00
6.4300000 01	6.3081195 00	7.8236350-04	1.0293150-01	6.4118334 00
6.4400001 01	7.1042353 00	8.8306050-04	1.1774419-01	7.2228626 00
6.4500002 01	8.0722120 00	1.0054927-03	2.2890691-01	8.3021244 00
6.4600002 01	9.2665800 00	1.1565569-03	4.8084655-01	9.7485831 00
6.4800001 01	1.2687134 01	1.5891797-03	1.7164328 00	1.4405156 01
6.5000002 01	1.8635078 01	2.3414430-03	5.0306637 00	2.3668083 01
6.5200001 01	3.0769420 01	3.8761037-03	1.4313721 01	4.5087018 01
6.5400002 01	6.7876342 01	8.5690610-03	5.2649979 01	1.2053489 02
6.5500002 01	1.3096038 02	1.6547347-02	1.3001945 02	2.6099638 02
6.5600001 01	3.0241453 02	3.8231274-02	3.5711504 02	6.5956780 02
6.5700002 01	7.0425947 02	8.9052846-02	9.1300777 02	1.6173563 03
6.5800000 01	1.3976662 03	1.7674840-01	1.9016350 03	3.2994779 03
6.5900001 01	2.1591703 03	2.7305628-01	3.0242739 03	5.1837172 03
6.5950001 01	2.4117433 03	3.0499938-01	3.4170298 03	5.8290781 03
6.6000002 01	2.5014990 03	3.1635086-01	3.5825021 03	6.0843175 03
6.6050000 01	2.4081533 03	3.0454538-01	3.4862026 03	5.8946605 03
6.6100002 01	2.1531079 03	2.7228962-01	3.1532546 03	5.3066348 03
6.6200002 01	1.3916293 03	1.7598498-01	2.0987326 03	3.4905378 03
6.6300000 01	7.0166237 02	8.8724458-02	1.1099918 03	1.8117429 03
6.6400002 01	3.0201035 02	3.8180242-02	5.2037988 02	8.2242841 02
6.6500002 01	1.3096438 02	1.6547966-02	2.5800491 02	3.8898583 02
6.6600001 01	6.7766133 01	8.5552571-03	1.5488530 02	2.2265998 02
6.6800000 01	3.0618680 01	3.8572210-03	8.7031124 01	1.1765366 02
6.7000002 01	1.8568448 01	2.3332429-03	6.1660101 01	8.0230882 01
6.7200002 01	1.2701145 01	1.5912236-03	4.7976112 01	6.0678848 01
6.7400001 01	9.3546948 00	1.1680181-03	3.9403872 01	4.8759734 01
6.7600000 01	7.2636673 00	9.0358670-04	3.3524663 01	4.0789233 01

TABLE II (continued)

T = 0.05 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
6.7800000 C1	5.8762487 00	7.2814089-04	2.9226334 01	3.5103310 01
6.8000002 C1	4.9176483 00	6.0692790-04	2.5926043 01	3.0844298 01
6.8500002 C1	3.5626784 00	4.3561502-04	2.0147173 01	2.3710287 01
6.8800001 C1	3.1653684 00	3.8540212-04	1.7625902 01	2.0791655 01
6.9000002 C1	3.0151138 00	3.6642061-04	1.6163050 01	1.9178530 01
6.9200002 C1	2.9435249 00	3.5738706-04	1.4813456 01	1.7757339 01
6.9500002 C1	2.9792488 00	3.6201346-04	1.2914690 01	1.5894901 01
6.9800000 C1	3.2122020 00	3.9143072-04	1.1066834 01	1.4279427 01
7.0000002 C1	3.5108674 00	4.2922394-04	9.8119345 00	1.3323231 01
7.0300001 C1	4.2911987 00	5.2794399-04	7.8176754 03	1.2109402 01
7.0500002 C1	5.1731711 00	6.3950824-04	6.3682814 00	1.1542092 01
7.0700002 C1	6.5763095 00	8.1698453-04	4.7970826 00	1.1374209 01
7.0900002 C1	8.7532857 00	1.1182548-03	3.1334740 00	1.2092878-01
7.1000002 C1	1.0823834 01	1.3542019-03	2.3263659 00	1.3151554 01
7.1100001 C1	1.3493901 01	1.6925293-03	1.6468716 00	1.5147465 01
7.1200002 C1	1.7621724 01	2.2139609-03	1.3716130 00	1.8995751 01
7.1300000 C1	2.4936511 01	3.1390710-03	2.5008890 00	2.7440539 01
7.1500001 C1	3.1296872 01	3.9434750-03	4.6124632 00	3.5913279 01
7.1400001 C1	4.1447372 01	5.2272827-03	9.2324856 00	5.0685585 01
7.1500002 C1	8.7637944 01	1.1068978-02	3.7538017 01	1.2518703 02
7.1600002 C1	2.1741757 02	2.7482292-02	1.3241221 02	3.4985726 02
7.1700002 C1	5.1733789 02	6.5413405-02	3.7137923 02	8.8878253 02
7.1800000 C1	1.0201487 03	1.2900414-01	7.9554579 02	1.8158235 03
7.1850001 C1	1.3046896 03	1.6499025-01	1.0460582 03	2.3509128 03
7.1900002 C1	1.5584521 03	1.9708374-01	1.2788120 03	2.8374611 03
7.1950002 C1	1.7346820 03	2.1937165-01	1.4531219 03	3.1880232 03
7.1980001 C1	1.7872674 03	2.2602217-01	1.5149889 03	3.3024823 03
7.2000002 C1	1.7971152 03	2.2726762-01	1.5353160 03	3.3326585 03
7.2020001 C1	1.7862693 03	2.2589593-01	1.5381342 03	3.3246294 03
7.2050000 C1	1.7323006 03	2.1907049-01	1.5098475 03	3.2423671 03
7.2100001 C1	1.5543924 03	1.9657032-01	1.3845411 03	2.9391301 03
7.2150001 C1	1.3006774 03	1.6440698-01	1.1874624 03	2.4877042 03
7.2200001 C1	1.0159762 03	1.2847904-01	9.5696302 02	1.9730877 03
7.2300000 C1	5.1548183 02	6.5178729-02	5.3253149 02	1.0480785 03
7.2400002 C1	2.1710220 02	2.7442489-02	2.6559598 02	4.8272562 02
7.2500002 C1	8.7585532 01	1.1062451-02	1.4127845 02	2.2887504 02
7.2600002 C1	4.1234833 01	5.2004599-03	9.1383105 01	1.3262312 01
7.2700002 C1	2.4601857 01	3.0968671-03	7.0130227 01	9.4735180 01
7.2800000 C1	1.7235961 01	2.1653277-03	5.8891984 01	7.6130110 01
7.2900001 C1	1.3085478 01	1.6404234-03	5.1674061 01	6.4761179 01
7.3000002 C1	1.0366216 01	1.2990558-03	4.6510740 01	5.6898255 01
7.3200002 C1	7.1066246 00	8.8432892-04	3.9510356 01	4.6618064 01
7.3400002 C1	5.2330086 00	6.4736569-04	3.4943364 01	4.0177019 01
7.3600001 C1	4.0514060 00	4.9794712-04	3.1709499 01	3.5761403 01
7.3800000 C1	3.2544929 00	3.9718038-04	2.9286522 01	3.2543412 01
7.4000002 C1	2.6897531 00	3.2577663-04	2.7400867 01	3.0090946 01
7.4500002 C1	1.8280225 00	2.1684072-04	2.4082218 01	2.5910457 01
7.5000002 C1	1.3591372 00	1.5738777-04	2.1894683 01	2.3253978 01
7.6000002 C1	8.8685744-01	9.7951643-05	1.9116640 01	2.0003597 01
7.7000002 C1	6.6350469-01	6.9795193-05	1.7360069 01	1.8023643 01
7.8000002 C1	5.4095275-01	5.4385629-05	1.6096024 01	1.6639031 01
7.9000002 C1	4.5848114-01	4.5308035-05	1.5109711 01	1.5578737 01
8.0000002 C1	4.2507187-01	3.9904367-05	1.4283071 01	1.4708183 01
8.0500002 C1	4.1104301-01	3.8172708-05	1.3908737 01	1.4319818 01
8.1000002 C1	4.0121601-01	3.6772069-05	1.3552043 01	1.3953295 01
8.1500002 C1	3.9523391-01	3.6257319-05	1.3207832 01	1.3603102 01
8.2000002 C1	3.9293387-01	3.6030395-05	1.2871466 01	1.3264455 01
8.3000002 C1	3.9996938-01	3.6979408-05	1.2204595 01	1.2604601 01
8.4000002 C1	4.2577177-01	4.0323003-05	1.1514437 01	1.1940249 01
8.5000002 C1	4.8037473-01	4.7307576-05	1.0754025 01	1.1234447 01
8.5500002 C1	5.2530483-01	5.3028061-05	1.0326105 01	1.0851463 01
8.6000002 C1	5.8937168-01	6.1170065-05	9.8487692 00	1.0438202 01
8.6500002 C1	6.8339848-01	7.3099778-05	9.3013469 00	9.9848184 00

TABLE II (continued)

T = 0.05 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
8.7000002 01	8.2788667-01	9.1411450-05	8.6519421 00	9.4799199 00
8.7500002 01	1.0658269 00	1.2154152-04	7.8479274 00	8.9138759 00
8.7800000 01	1.2915461 00	1.5011081-04	7.2550175 00	8.5467136 00
8.8000002 01	1.5014744 00	1.7667546-04	6.7952005 00	8.2968516 00
8.8200002 01	1.7858770 00	2.1265910-04	6.2682009 00	8.0542925 00
8.8400002 01	2.1663727 00	2.6332459-04	5.6554858 00	7.8421218 00
8.8600000 01	2.7796354 00	3.3839495-04	4.9322427 00	7.7124164 00
8.8800002 01	3.7238104 00	4.5779471-04	4.0675733 00	7.7918414 00
8.9000002 01	5.4000771 00	6.6980779-04	3.0393251 00	8.440720 00
8.9200002 01	9.2295177 00	1.1541339-03	2.0575171 00	1.1288189 01
8.9300000 01	1.4264095 01	1.7908672-03	2.3564771 00	1.6622363 01
8.9400001 01	2.7547682 01	3.4708578-03	5.8335272 00	3.3384680 01
8.9450002 01	4.1572197 01	5.2445500-03	1.0780067 01	5.2357508 01
8.9500002 01	6.4732057 01	8.1735946-03	1.9944109 01	8.4684340 01
8.9550000 01	1.0153061 02	1.2827530-02	3.5640573 01	1.3718401 02
8.9600002 01	1.5702273 02	1.9845656-02	6.0584353 01	2.1762693 02
8.9700002 01	3.3927306 02	4.2894972-02	1.4739003 02	4.8670598 02
8.9800001 01	6.0524484 02	7.6532590-02	2.8169287 02	8.8701424 02
8.9850001 01	7.4415545 02	9.4106700-02	3.5527545 02	1.0995250 03
8.9900002 01	8.6325020 02	1.0916269-01	4.2143783 02	1.2847972 03
8.9950002 01	9.4384536 02	1.1935561-01	4.7039555 02	1.4143603 03
8.9980001 01	9.6760595 02	1.2236061-01	4.8809018 02	1.4558185 03
9.0000002 01	9.7209222 02	1.2292600-01	4.9431906 02	1.4665342 03
9.0020001 01	9.6719978 02	1.2230925-01	4.9585510 02	1.4631772 03
9.0050000 01	9.4287812 02	1.1923328-01	4.8948735 02	1.4324847 03
9.0100000 01	8.6137477 02	1.0895079-01	4.5742387 02	1.3191076 03
9.0150001 01	7.4219323 02	9.3852558-02	4.0424602 02	1.1465331 03
9.0200001 01	6.0344334 02	7.6304781-02	3.3888282 02	9.4240246 02
9.0300000 01	3.3856738 02	4.2805767-02	2.0754248 02	5.4615266 02
9.0400002 01	1.5735677 02	1.9887987-02	1.1242814 02	2.6980500 02
9.0500002 01	6.5551950 01	4.2773593-03	6.0817793 01	1.2637802 02
9.0600001 01	2.8545508 01	5.5971398-03	3.7573576 01	6.6122681 01
9.0700002 01	1.5437504 01	1.9393694-03	2.7517864 01	4.2957307 01
9.0800000 01	1.0678815 01	1.3373424-03	2.2488777 01	3.3168930 01
9.0900001 01	8.6763438 00	1.0842959-03	1.9303552 01	2.7980980 01
9.0950001 01	8.1351453 00	1.0158538-03	1.8029838 01	2.6165999 01
9.1000002 01	7.7950774 00	9.7224079-04	1.6881191 01	2.4677241 01
9.1050000 01	7.6286638 00	9.5160586-04	1.5820321 01	2.3449937 01
9.1100002 01	7.6345465 00	9.5252008-04	1.4821366 01	2.2456665 01
9.1200002 01	8.3141654 00	1.0385122-03	1.2951521 01	2.1266724 01
9.1300000 01	1.0828423 01	1.3565064-03	1.1318096 01	2.2147936 01
9.1400002 01	1.8846342 01	2.3705369-03	1.0635279 01	2.9483991 01
9.1500002 01	4.2690450 01	5.3861225-03	1.3496374 01	5.6192210 01
9.1600001 01	1.0271486 02	1.2977451-02	2.5632761 01	1.2856060 02
9.1700001 01	2.2115612 02	2.7956792-02	5.5542794 01	2.7673287 02
9.1800000 01	3.9324169 02	4.9720561-02	1.0461303 02	4.9790444 02
9.1850000 01	4.8285905 02	6.1054528-02	1.3275823 02	6.1567833 02
9.1900002 01	5.5950665 02	7.0748227-02	1.5971358 02	7.1869117 02
9.1950002 01	6.1122667 02	7.7289267-02	1.8001000 02	7.9131396 02
9.1980002 01	6.2643830 02	7.9215623-02	1.8857080 02	8.1510932 02
9.2000002 01	6.2941523 02	7.9589582-02	1.9234558 02	8.2184039 02
9.2020002 01	6.2613778 02	7.9175091-02	1.9436970 02	8.2058666 02
9.2050000 01	6.1046100 02	7.7192440-02	1.9425191 02	8.0479011 02
9.2100002 01	5.5814977 02	7.0576610-02	1.8594017 02	7.4416051 02
9.2150002 01	4.9115498 02	6.0839039-02	1.6916719 02	6.5038301 02
9.2200002 01	3.9148623 02	4.7498569-02	1.4700202 02	5.3853775 02
9.2300000 01	2.1975411 02	2.7779525-02	9.9659710 01	3.1944140 02
9.2400001 01	1.0161756 02	1.2830732-02	6.3176950 01	1.6480735 02
9.2500002 01	4.1483237 01	5.2335155-03	4.2079297 01	8.3567767 01
9.2600000 01	1.7255579 01	2.1674357-03	3.1820411 01	4.9078159 01
9.2700002 01	8.7454248 00	1.0731584-03	2.6762822 01	3.5714760 01
9.2800000 01	5.6531293 00	7.0200079-04	2.4358392 01	3.0012223 01
9.3000002 01	3.4250772 00	4.2031151-04	2.1427206 01	2.4652703 01

TABLE II (continued)

T = 0.05 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_T$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
9.3200002 01	2.4637918 00	2.9877619-04	1.9638742 01	2.2103073 01
9.3500002 01	1.7250650 00	2.0534407-04	1.7859094 01	1.9584364 01
9.4000002 01	1.1610916 00	1.3405187-04	1.5981500 01	1.7142726 01
9.4500002 01	8.9905046-01	1.0074498-04	1.4723323 01	1.5622474 01
9.5000002 01	7.5841436-01	8.3192044-05	1.3765631 01	1.4524129 01
9.6000002 01	6.3528411-01	6.7685516-05	1.2276999 01	1.2912350 01
9.7000002 01	6.1612662-01	6.5327545-05	1.1019131 01	1.1635323 01
9.7500002 01	6.3315152-01	6.7512765-05	1.0408539 01	1.1041758 01
9.8000002 01	6.6771719-01	7.1916135-05	9.7849330 00	1.0452722 01
9.8500002 01	7.2256829-01	7.8884770-05	9.1308217 00	9.8534688 00
9.9000002 01	8.0328156-01	8.9125377-05	8.4275394 00	9.2309100 00
1.0000002 02	1.6890294 00	1.2532468-04	6.7822317 00	7.8713863 00
1.0050002 02	1.3423007 00	1.5738672-04	5.7809123 00	7.1233703 00
1.0100002 02	1.7396053 00	2.0766451-04	4.6100158 00	6.3498287 00
1.0150002 02	2.4093437 00	2.9239691-04	3.2332538 00	5.6428899 00
1.0180002 02	3.0575744 00	3.7439709-04	2.3115600 00	5.3695088 00
1.0200002 02	3.6688868 00	4.5172214-04	1.6779329 00	5.3472715 00
1.0230002 02	5.0491584 00	6.2630376-04	7.9437509-01	5.8441598 00
1.0250002 02	6.5051777 00	8.1045923-04	4.0259568-01	6.9085840 00
1.0270002 02	8.7695538 00	1.0968481-03	4.8863199-01	9.2592826 00
1.0280002 02	1.0417242 01	1.3052380-03	9.2068663-01	1.1339234 01
1.0290002 02	1.2630399 01	1.5851432-03	1.8586269 00	1.4490611 01
1.0300002 02	1.5743218 01	1.9788291-03	3.7158342 00	1.9461031 01
1.0310002 02	2.0461358 01	2.5755409-03	7.4605915 00	2.7924525 01
1.0320002 02	2.8548087 01	3.5982807-03	1.5763143 01	4.4314428 01
1.0330002 02	4.4792624 01	5.6527417-03	3.6434968 01	8.1233245 01
1.0340002 02	8.1405376 01	1.0283184-02	9.0429271 01	1.7184493 02
1.0350002 02	1.6388280 02	2.0714158-02	2.2325746 02	3.8716098 02
1.0360002 02	3.2990540 02	4.1711142-02	5.0522667 02	8.3517378 02
1.0370002 02	6.0567963 02	7.6588480-02	9.9141059 02	1.5971668 03
1.0380002 02	9.5921646 02	1.2130048-01	1.6364345 03	2.5957723 03
1.0385002 02	1.1511980 03	1.4305110-01	1.9604872 03	3.0918282 03
1.0390002 02	1.2739128 03	1.6110033-01	2.2387734 03	3.5128472 03
1.0395002 02	1.3683408 03	1.7304270-01	2.4357829 03	3.8042967 03
1.0400002 02	1.4009709 03	1.7716941-01	2.5248995 03	3.9260476 03
1.0405002 02	1.3669841 03	1.7287112-01	2.4945218 03	3.8616787 03
1.0410002 02	1.2714751 03	1.6079205-01	2.3508314 03	3.6224673 03
1.0415002 02	1.1281508 03	1.4266573-01	2.1160467 03	3.2443402 03
1.0420002 02	9.5606991 02	1.2090257-01	1.8229753 03	2.7791661 03
1.0430002 02	6.0346362 02	7.6308251-02	1.2015271 03	1.8050670 03
1.0440002 02	3.7896500 02	4.1592258-02	7.0091221 02	1.0299186 03
1.0450002 02	1.6367636 02	2.0688107-02	3.8881871 02	5.5251576 02
1.0460002 02	8.1382604 01	1.0280373-02	2.2622788 02	3.0762076 02
1.0480002 02	2.8450193 01	3.5859926-03	1.1122265 02	1.3967643 02
1.0500002 02	1.5629935 01	1.9646248-03	7.7316206 01	9.2948156 01
1.0550002 02	6.4295140 00	3.0106427-04	4.7546761 01	5.3777076 01
1.0600002 02	3.6173635 00	4.4543632-04	3.6112713 01	3.9730522 01
1.0700002 02	1.7166943 00	2.0511556-04	2.6219939 01	2.7936638 01
1.0800002 02	1.0361861 00	1.2543012-04	2.1607595 01	2.2693907 01
1.0900002 02	8.1966108-01	9.1777104-05	1.8764455 01	1.9584207 01
1.0950002 02	7.4963769-01	8.2948175-05	1.7655348 01	1.8405069 01
1.0980002 02	7.2113722-01	7.7359830-05	1.7049267 01	1.7770483 01
1.1000002 02	7.0696003-01	7.7577536-05	1.6663526 01	1.7370563 01
1.1020002 02	6.9635141-01	7.6246528-05	1.6289387 01	1.6985815 01
1.1050002 02	6.8679809-01	7.5054275-05	1.5744870 01	1.6431743 01
1.1100002 02	6.8745014-01	7.5163187-05	1.4864319 01	1.5551844 01
1.1150002 02	7.1002372-01	7.8044615-05	1.3990758 01	1.4700862 01
1.1200002 02	7.5902084-01	8.4267147-05	1.3092939 01	1.3852044 01
1.1250002 02	8.4423957-01	9.5070751-05	1.2134912 01	1.2979247 01
1.1300002 02	9.8563531-01	1.1297691-04	1.1069622 01	1.2055370 01
1.1350002 02	1.2260873 00	1.4341459-04	9.8275213 00	1.1053752 01
1.1380002 02	1.4562542 00	1.7253923-04	8.9525503 00	1.0408977 01
1.1400002 02	1.6707109 00	1.9967183-04	8.2932976 00	9.7642080 00

TABLE II (continued)

T = 0.05 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
1.1420002 02	1.9615118 00	2.3645772-04	7.5554872 00	9.5172354 00
1.1440002 02	2.3717390 00	2.8835150-04	6.7186273 00	9.0906545 00
1.1460002 02	2.9824991 00	3.6560481-04	5.7568170 00	8.7396816 00
1.1480002 02	3.9665031 00	4.9006241-04	4.6430590 00	8.6100521 00
1.1500002 02	5.7980435 00	7.2181018-04	3.4030033 00	9.2025736 00
1.1520002 02	1.0982438 01	1.3773917-03	2.9393446 00	1.3923160 01
1.1530002 02	1.9068186 01	2.4000059-03	5.1938140 00	2.4264400 01
1.1540002 02	3.9407058 01	4.9722601-03	1.4153029 01	5.3565059 01
1.1545002 02	5.8599927 01	7.3996163-03	2.3912652 01	8.2519979 01
1.1550002 02	8.7171426 01	1.1013072-02	3.9388290 01	1.2657073 02
1.1560002 02	1.8313357 02	2.3147467-02	9.4960889 01	2.7811761 02
1.1570002 02	3.3935867 02	4.2907354-02	1.9097855 02	5.3038013 02
1.1580002 02	5.3503758 02	6.7654992-02	3.1774386 02	8.5284910 02
1.1585002 02	6.2878393 02	7.9511131-02	3.8148866 02	1.0103523 03
1.1590002 02	7.0600076 02	8.9276806-02	4.3671526 02	1.1426053 03
1.1595002 02	7.5687679 02	9.5711135-02	4.7681969 02	1.2337922 03
1.1598002 02	7.7166904 02	9.7582022-02	4.9139918 02	1.2631666 03
1.1600002 02	7.7445884 02	9.7934753-02	4.9673482 02	1.2712916 03
1.1602002 02	7.7142074 02	9.7550510-02	4.9839201 02	1.2699103 03
1.1605002 02	7.5627049 02	9.5634460-02	4.9406557 02	1.2504317 03
1.1610002 02	7.0491294 02	8.9139229-02	4.6961933 02	1.1746214 03
1.1615002 02	6.2744973 02	7.9342413-02	4.2718222 02	1.0547113 03
1.1620002 02	5.3371304 02	6.7487491-02	3.7255384 02	9.0633436 02
1.1630002 02	3.3863192 02	4.2815475-02	2.5259986 02	5.9127460 02
1.1640002 02	1.8320727 02	2.3159081-02	1.5182303 02	3.3505546 02
1.1650002 02	8.7794841 01	1.1091966-02	8.6477387 01	1.7428332 02
1.1660002 02	4.0263548 01	5.0831703-03	5.1392228 01	9.1680859 01
1.1670002 02	2.0081082 01	2.5281767-03	3.4514080 01	5.4597690 01
1.1680002 02	1.2137171 01	1.5235104-03	2.6341723 01	3.8480417 01
1.1700002 02	7.3630398 00	7.1973325-04	1.8795804 01	2.6159763 01
1.1720002 02	6.1040845 00	7.6052214-04	1.4536167 01	2.0641012 01
1.1730002 02	5.9111478 00	7.3612619-04	1.2828709 01	1.8740593 01
1.1740002 02	5.9717032 00	7.3688296-04	1.1270041 01	1.7187811 01
1.1750002 02	6.1058584 00	7.6076104-04	9.8081038 00	1.5914773 01
1.1760002 02	6.4655309 00	8.0870321-04	8.4102163 00	1.4896556 01
1.1770002 02	7.0885644 00	8.8505411-04	7.0595585 00	1.4149008 01
1.1780002 02	7.9607423 00	9.9789319-04	5.7601519 00	1.3741892 01
1.1800002 02	1.1266923 01	1.4135081-03	3.5993935 00	1.4867730 01
1.1820002 02	2.0039756 01	2.6241994-03	5.7002829 00	2.6542663 01
1.1830002 02	3.4734071 01	4.3814268-03	1.5668617 01	5.0407069 01
1.1840002 02	6.7026256 01	8.4654428-03	4.6455248 01	1.1348997 02
1.1850002 02	1.3769955 02	1.7403539-02	1.2388967 02	2.6160663 02
1.1860002 02	2.7200083 02	3.4388707-02	2.8318672 02	5.5522194 02
1.1870002 02	4.8168496 02	6.0907939-02	5.4621263 02	1.0279585 03
1.1880002 02	7.3657706 02	9.3143948-02	8.8319519 02	1.6198654 03
1.1885002 02	8.5678846 02	1.0234715-01	1.0502950 03	1.9071918 03
1.1890002 02	9.5506648 02	1.2077644-01	1.1943719 03	2.1495592 03
1.1895002 02	1.0194474 03	1.2891073-01	1.2990095 03	2.3185858 03
1.1900002 02	1.0415881 03	1.3171888-01	1.3517702 03	2.3934700 03
1.1905002 02	1.0185314 03	1.2880290-01	1.3467178 03	2.3653780 03
1.1910002 02	9.5337524 02	1.2056509-01	1.2856980 03	2.2392138 03
1.1915002 02	8.5465453 02	1.0807729-01	1.1777867 03	2.0325493 03
1.1920002 02	7.3430172 02	9.2856200-02	1.0372214 03	1.7716160 03
1.1930002 02	4.7988096 02	6.0679469-02	7.2290267 02	1.2028443 03
1.1940002 02	2.7099609 02	3.4261680-02	4.5077531 02	7.2180567 02
1.1950002 02	1.3719616 02	1.7339723-02	2.6738743 02	4.0460093 02
1.1960002 02	6.6631390 01	3.4155008-03	1.6436136 02	2.3100117 02
1.1970002 02	3.4241298 01	3.4319121-03	1.1256201 02	1.4680762 02
1.1980002 02	2.0205730 01	2.5440898-03	8.6931707 01	1.0713998 02
1.2000002 02	1.0373696 01	1.3006361-03	6.4476509 01	7.4851504 01

TABLE III

Pu<sup>240</sup> CROSS SECTIONSPu<sup>240</sup> Temperature = 0.1 ev

Neutron Energy, E <sub>n</sub> (ev)	Radiative Capture Cross Section, σ <sub>γ</sub> (barns)	Fission Cross Section, σ <sub>F</sub> (barns)	Scattering Cross Section, σ <sub>S</sub> (barns)	Total Cross Section, σ <sub>T</sub> (barns)
2.5300002-02	2.8426230 02	4.8807210-02	1.8426913 00	2.8615380 02
3.5000002-02	2.4618260 02	4.2286696-02	1.7899447 00	2.4801483 02
5.0000007-02	2.1200920 02	3.6440482-02	1.7112993 00	2.1375694 02
6.0000005-02	1.9735113 02	3.3935484-02	1.6595345 00	1.9904460 02
8.0000007-02	1.7782481 02	3.0603533-02	1.5563067 00	1.7941172 02
1.0000002-01	1.6562759 02	2.8527695-02	1.4529823 00	1.6710910 02
1.5000002-01	1.5025023 02	2.5930812-02	1.1936088 00	1.5146977 02
2.0000002-01	1.4547322 02	2.5153794-02	9.3499598-01	1.4643337 02
2.5000002-01	1.4648673 02	2.5374281-02	6.8272700-01	1.4719483 02
3.0000005-01	1.5173851 02	2.6326222-02	4.4594277-01	1.5221078 02
3.5000002-01	1.6084002 02	2.7951470-02	2.3895908-01	1.6110693 02
4.0000006-01	1.7403016 02	3.0288283-02	8.4242285-02	1.7414469 02
4.2000002-01	1.8060127 02	3.1449521-02	4.4359962-02	1.8067708 02
4.4000006-01	1.8801269 02	3.2757901-02	2.1382193-02	1.8806683 02
4.5000005-01	1.7206052 02	3.3472035-02	1.7389326-02	1.9211138 02
4.6000002-01	1.9635318 02	3.4229078-02	1.9090855-02	1.9640650 02
4.8000003-01	2.0573082 02	3.5882078-02	4.2057913-02	2.0580876 02
5.0000002-01	2.1627643 02	3.7739917-02	9.5911821-02	2.1641008 02
5.5000002-01	2.4887384 02	4.3478313-02	4.1523143-01	2.4933255 02
6.0000002-01	2.9342593 02	5.1315351-02	1.1389579 00	2.9461620 02
6.5000002-01	3.5593079 02	6.2305025-02	2.5602650 00	3.5855336 02
7.0000002-01	4.4700627 02	7.8312890-02	5.2348662 00	4.5231945 02
7.5000002-01	5.8690747 02	1.0289737-01	1.0297928 01	5.9730829 02
8.0000002-01	8.1649037 02	1.4358747-01	2.0318647 01	8.3895260 02
8.5000002-01	1.2471639 03	2.1890095-01	4.2052996 01	1.2894358 03
9.0000002-01	2.2044181 03	3.8707273-01	9.8263318 01	2.3030685 03
9.2000002-01	2.9767656 03	5.2275753-01	1.4790214 02	3.1251905 03
9.4000002-01	4.3339694 03	7.6118710-01	2.4063225 02	4.5753628 03
9.6000002-01	7.1224348 03	1.2510545 00	4.4376207 02	7.5674479 03
9.8000002-01	1.3552764 04	2.3807089 00	9.3960135 02	1.4494746 04
1.0000002 00	2.7486056 04	4.8284504 00	2.0611157 03	2.9552000 04
1.0100002 00	3.8077118 04	6.6890445 00	2.9356269 03	4.1019433 04
1.0200002 00	5.0464556 04	8.8652163 00	3.9771367 03	5.4450558 04
1.0300002 00	6.3111922 04	1.0287051 01	5.0636650 03	6.8186674 04
1.0400002 00	7.3805096 04	1.2965585 01	6.0123420 03	7.9830403 04
1.0450002 00	7.7691809 04	1.3648385 01	6.3731524 03	8.4078610 04
1.0500002 00	8.0284857 04	1.4103922 01	6.6300719 03	8.6929033 04
1.0530002 00	8.1151924 04	1.4256245 01	6.7280768 03	8.7894257 04
1.0550002 00	8.1429882 04	1.4305075 01	6.7686989 03	8.8212886 04
1.0575002 00	8.1435314 04	1.4306031 01	6.7911129 03	8.8240733 04
1.0600002 00	8.1061864 04	1.4240425 01	6.7818904 03	8.7857994 04
1.0620002 00	8.0494725 04	1.4140791 01	6.7519569 03	8.7260823 04
1.0650002 00	7.9211609 04	1.3915380 01	6.6704509 03	8.5895975 04
1.0700002 00	7.6001276 04	1.3351402 01	6.4429055 03	8.2457532 04
1.0800002 00	6.6354426 04	1.1656684 01	5.7054390 03	7.2071521 04
1.0900002 00	5.4233271 04	9.5272924 00	4.7387745 03	5.8981573 04
1.1000002 00	4.1834248 04	7.3490691 00	3.7255123 03	4.5567109 04
1.1100002 00	3.0803360 04	5.4112269 00	2.8072264 03	3.3615998 04
1.1200002 00	2.1973094 04	3.8599683 00	2.0596410 03	2.4036795 04
1.1400002 00	1.0922119 04	1.9185820 00	1.1017315 03	1.2025769 04
1.1500002 00	7.8806899 03	1.32842774 00	8.2987024 02	8.7119445 03
1.1700002 00	4.5208706 03	7.9404046-01	5.1979379 02	5.0414584 03
1.2000002 00	2.4581173 03	4.3166691-01	3.1800794 02	2.7765570 03
1.2500002 00	1.2249356 03	2.1503015-01	1.8722287 02	1.4123735 03
1.3000002 00	7.3540418 02	1.2903445-01	1.3046362 02	8.6599683 02
1.3500002 00	4.8696830 02	8.5748157-02	9.9576324 01	5.8865037 02
1.4000002 00	3.4743447 02	6.0883360-02	8.0511837 01	4.2800719 02
1.4500002 00	2.5873554 02	4.5303758-02	6.7733505 01	3.2651435 02
1.5000002 00	1.9958808 02	3.4915484-02	5.8651702 01	2.5827469 02
1.6000002 00	1.2827121 02	2.2391485-02	4.6724828 01	1.7501843 02
1.7000002 00	8.8730445 01	1.5449365-02	3.9327015 01	1.2807291 02
1.8000002 00	6.4671048 01	1.1226584-02	3.4335071 01	9.9017345 01
1.9000002 00	4.9019212 01	8.4804976-03	3.0759734 01	7.9787426 01

TABLE III (continued)

T = 0.1 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
2.000002 00	3.8308907 01	6.6022453-03	2.8082908 01	6.6398417 01
2.100002 00	3.0683589 01	5.2657098-03	2.6008960 01	5.6697815 01
2.300002 00	2.0847721 01	3.5432758-03	2.3013729 01	4.3864993 01
2.500002 00	1.5016479 01	2.5236786-03	2.0761248 01	3.5980250 01
2.800002 00	9.9369017 00	1.6375407-03	1.8868285 01	2.8806824 01
3.000002 00	7.8541607 00	1.2752680-03	1.7870387 01	2.5725823 01
3.500002 00	4.8267352 00	7.5104910-04	1.6150771 01	2.0978257 01
4.000002 00	3.2929856 00	4.8773844-04	1.5054547 01	1.8348021 01
5.000002 00	1.8758071 00	2.4810817-04	1.3729665 01	1.5605740 01
6.000002 00	1.2691044 00	1.4836017-04	1.2947406 01	1.4216658 01
8.000002 00	7.7557624-01	7.1083490-05	1.2033081 01	1.2808728 01
1.000002 01	5.8632094-01	4.3979380-05	1.1474895 01	1.2061260 01
1.100002 01	5.3514021-01	3.7247304-05	1.1254298 01	1.1789476 01
1.300002 01	4.7986516-01	3.0706940-05	1.0862292 01	1.1342188 01
1.400002 01	4.7163527-01	3.0113682-05	1.0671387 01	1.1143052 01
1.500002 01	4.7876853-01	3.1525220-05	1.0469642 01	1.0948442 01
1.600002 01	5.1015456-01	3.6032135-05	1.0240387 01	1.0750577 01
1.700002 01	5.9190616-01	4.6917135-05	9.9513880 00	1.0543341 01
1.800002 01	8.1722024-01	7.5954664-05	9.5214358 00	1.0338732 01
1.850002 01	1.0932733 00	1.1113435-04	9.1840606 00	1.0277445 01
1.900002 01	1.7294348 00	1.9185376-04	8.6512074 00	1.0380834 01
1.920002 01	2.2433484 00	2.5695315-04	8.3301968 00	1.0573802 01
1.940002 01	3.1187050 00	3.6776380-04	7.8938232 00	1.1012896 01
1.960002 01	4.8155258 00	5.8246488-04	7.2585357 00	1.2074644 01
1.980002 01	9.0292695 00	1.1154819-03	6.2375691 00	1.5267954 01
2.000002 01	3.7285053 01	4.6891092-03	5.1051528 00	4.2394895 01
2.020002 01	4.3964456 02	5.5575856-02	2.6558873 01	4.6625901 02
2.022002 01	5.3217853 02	6.7278693-02	3.2780622 01	5.6502644 02
2.023002 01	5.8154180 02	7.3521699-02	3.6211253 01	6.1782657 02
2.024002 01	6.3251494 02	7.9968303-02	3.9833400 01	6.7242831 02
2.025002 01	6.9468149 02	8.6565846-02	4.3624967 01	7.2839303 02
2.030002 01	9.4486200 02	1.1947105-01	6.3997122 01	1.0089786 03
2.035002 01	1.1474080 03	1.4508717-01	8.2823420 01	1.2303765 03
2.047002 01	1.1955890 03	1.5118068-01	8.8614720 01	1.2843549 03
2.039002 01	1.2198531 03	1.5424937-01	9.2924456 01	1.3129318 03
2.040002 01	1.2224710 03	1.5458046-01	9.4452018 01	1.3170776 03
2.041002 01	1.2186598 03	1.5409847-01	9.5536210 01	1.3143501 03
2.043002 01	1.1921271 03	1.5074288-01	9.6342559 01	1.2886204 03
2.045002 01	1.1419926 03	1.4440234-01	9.5353187 01	1.2374702 03
2.050002 01	9.3685537 02	1.1845853-01	8.6073070 01	1.0230469 03
2.055002 01	6.7757906 02	6.5667753-02	7.0661052 01	7.4832578 02
2.060002 01	4.3535993 02	5.5034171-02	5.4197815 01	4.8961278 02
2.065002 01	3.7534307 01	4.7210328-03	2.0713918 01	5.8252945 01
2.100002 01	8.8392201 00	1.0920457-03	1.5674493 01	2.4514805 01
2.120002 01	4.6517574 00	5.6255228-04	1.4076071 01	1.8728391 01
2.140002 01	2.9826526 00	3.5155618-04	1.3209164 01	1.6192168 01
2.160002 01	2.1257414 00	2.4330320-04	1.2653090 01	1.4779275 01
2.180002 01	1.6249407 00	1.8003641-04	1.2261378 01	1.3886498 01
2.200002 01	1.3059204 00	1.3978401-04	1.1967636 01	1.3273696 01
2.220002 01	1.0900549 00	1.1257690-04	1.1737120 01	1.2827287 01
2.250002 01	8.7691419-01	8.5759740-05	1.1468236 01	1.2345286 01
2.300002 01	6.7444319-01	6.0383269-05	1.1143058 01	1.1817582 01
2.400002 01	4.9662300-01	3.8332855-05	1.0714279 01	1.1210940 01
2.500002 01	4.2525439-01	2.9729633-05	1.0412261 01	1.0837546 01
2.700002 01	3.7986668-01	2.4782415-05	9.9300346 00	1.0309926 01
2.800002 01	3.7908257-01	2.5055145-05	9.7010405 00	1.0080148 01
2.900002 01	3.8866262-01	2.6625815-05	9.4616237 00	9.8503329 00
3.000002 01	4.0959400-01	2.9612533-05	9.1995457 00	9.6091693 00
3.100002 01	4.4558344-01	3.4492443-05	8.9000162 00	9.3456340 00
3.200002 01	5.0493666-01	4.2314215-05	8.5419259 00	9.0469047 00
3.300002 01	6.0540148-01	5.5323150-05	8.0911403 00	8.6965970 00
3.400002 01	7.8870964-01	7.8777750-05	7.4858176 00	8.2746060 00
3.500002 01	1.1716392 00	1.2753293-04	6.5985142 00	7.7704809 00

TABLE III (continued)

T = 0.1 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
3.6000002 01	2.1981799 00	2.5760512-04	5.1188159 00	7.3172533 00
3.6500002 01	3.5355080 00	4.2686930-04	3.9221129 00	7.4580478 00
3.7000002 01	7.0406661 00	8.7029772-04	2.1744074 00	9.2159437 00
3.7200002 01	1.0356690 01	1.2897281-03	1.3391533 00	1.1697133 01
3.7400002 01	1.7412474 01	2.1821278-03	8.3481181-01	1.8249468 01
3.7600002 01	4.5481869 01	5.7321314-03	6.4524150 00	5.1940016 01
3.7650001 01	6.7340648 01	8.4966366-03	1.3436353 01	8.0785497 01
3.7700002 01	1.0566256 02	1.3343242-02	2.7155418 01	1.3283132 02
3.7800002 01	2.7783126 02	3.5117549-02	9.5500733 01	3.7336711 02
3.7900000 01	6.7060131 02	8.4791427-02	2.6255336 02	9.3323946 02
3.8000002 01	1.3146180 03	1.6626593-01	5.4958574 02	1.8645700 03
3.8050002 01	1.6736571 03	2.1164852-01	7.1325334 02	2.3891221 03
3.8100002 01	1.9907109 03	2.5174651-01	8.6678557 02	2.8577482 03
3.8150002 01	2.2090365 03	2.7935829-01	9.7812811 02	3.1874440 03
3.8180002 01	2.2734773 03	2.8750818-01	1.0164502 03	3.2902150 03
3.8200002 01	2.2851643 03	2.8898624-01	1.0282673 03	3.3137205 03
3.8220001 01	2.2711006 03	2.8720759-01	1.0285975 03	3.2999853 03
3.8250002 01	2.2033676 03	2.7864137-01	1.0079620 03	3.2116083 03
3.8300002 01	1.9810467 03	2.5052432-01	9.2275638 02	2.9040536 03
3.8350002 01	1.6626193 03	2.1025263-01	7.9086043 02	2.4536900 03
3.8400002 01	1.3048865 03	1.6500998-01	6.3697429 02	1.9420258 03
3.8500002 01	6.6633805 02	8.4252409-02	3.5209900 02	1.0185213 03
3.8600002 01	2.7757943 02	3.5085495-02	1.7084185 02	4.4845637 02
3.8800002 01	4.5665139 01	5.7556044-03	5.3034132 01	9.8705027 01
3.9000002 01	1.7253285 01	2.1623872-03	3.3451165 01	5.0706612 01
3.9200002 01	1.0243744 01	1.2759342-03	2.6635301 01	3.6880321 01
3.9400001 01	6.9969285 00	8.6535466-04	2.2418970 01	2.9816763 01
3.9600002 01	5.1819438 00	6.3585937-04	2.0319669 01	2.5502249 01
3.9700002 01	4.5642221 00	5.5775967-04	1.9358022 01	2.3922802 01
3.9800001 01	4.0746448 00	4.9566512-04	1.8528637 01	2.2603777 01
3.9900002 01	3.6839367 00	4.4647515-04	1.7802114 01	2.1486497 01
4.0000002 01	3.3719634 00	4.0704285-04	1.7156384 01	2.0528754 01
4.0100002 01	3.1249379 00	3.7582440-04	1.6574327 01	1.9699641 01
4.0200001 01	2.9337771 00	3.5167131-04	1.6042173 01	1.8976304 01
4.0300002 01	2.7932738 00	3.3392437-04	1.5548373 01	1.8341981 01
4.0400002 01	2.7016495 00	3.2238465-04	1.5082714 01	1.7784886 01
4.0600002 01	2.6820494 00	3.1992579-04	1.4196875 01	1.6879245 01
4.0800002 01	2.9930605 00	3.5930449-04	1.3296567 01	1.6289987 01
4.1000002 01	4.4638160 00	5.4535646-04	1.2243516 01	1.6707877 01
4.1200002 01	1.7775665 01	2.2289581-03	1.1120841 01	2.8898735 01
4.1400002 01	1.0911102 02	1.3780235-02	1.3568010 01	1.2269281 02
4.1500002 01	2.0746999 02	2.6219777-02	1.8890370 01	2.2638658 02
4.1550002 01	2.6069551 02	3.2951251-02	2.2556530 01	2.8328499 02
4.1600002 01	3.0717319 02	3.8829326-02	2.6445031 01	3.3365705 02
4.1630002 01	3.2649809 02	4.1526304-02	2.8658563 01	3.5719818 02
4.1650001 01	3.3905923 02	4.2861978-02	3.0025730 01	3.6912782 02
4.1670002 01	3.4611097 02	4.3753824-02	3.1230359 01	3.7738509 02
4.1690002 01	3.4967082 02	4.4204043-02	3.2289067 01	3.8200409 02
4.1700001 01	3.5017730 02	4.4268100-02	3.2744642 01	3.8296621 02
4.1710002 01	3.4948754 02	4.4180867-02	3.3134889 01	3.8266661 02
4.1730002 01	3.4559913 02	4.3689101-02	3.3785470 01	3.7942829 02
4.1750002 01	3.3621413 02	4.2755123-02	3.4198808 01	3.7245569 02
4.1770002 01	3.2738807 02	4.1385951-02	3.4394234 01	3.6182369 02
4.1800002 01	3.0571896 02	3.8645449-02	3.4252961 01	3.4001057 02
4.1850002 01	2.5899744 02	3.2736561-02	3.3039865 01	2.9207004 02
4.1900002 01	2.0586580 02	2.6016980-02	3.0890853 01	2.3678267 02
4.2000002 01	1.0817801 02	1.3662366-02	2.5526877 01	1.3371855 02
4.2200002 01	1.7450992 01	2.1881141-03	1.8168925 01	3.5622105 01
4.2400001 01	3.8328168 00	4.6585828-04	1.5769885 01	1.9603168 01
4.2600002 01	2.1114381 00	2.4819681-04	1.4807681 01	1.6919367 01
4.2800001 01	1.5320231 00	1.7496000-04	1.4215908 01	1.5748106 01
4.3000002 01	1.2198639 00	1.3552288-04	1.3785349 01	1.5005348 01
4.3200002 01	1.0245566 00	1.1086380-04	1.3446635 01	1.4471303 01



TABLE III (continued)

T = 0.1 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_x$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
4.3400002 01	8.9119176-01	9.4038397-05	1.3167093 01	1.4058378 01
4.3600002 01	7.9444375-01	8.1843665-05	1.2928732 01	1.3723258 01
4.3800002 01	7.2107396-01	7.2605324-05	1.2720637 01	1.3441784 01
4.4000002 01	6.6352189-01	6.5367213-05	1.2535695 01	1.3199282 01
4.4200002 01	6.1717371-01	5.9545603-05	1.2369025 01	1.2986258 01
4.4500002 01	5.6243643-01	5.2683077-05	1.2145876 01	1.2708365 01
4.5000002 01	4.9695086-01	4.4499726-05	1.1826985 01	1.2323980 01
4.6000002 01	4.1822121-01	3.4735533-05	1.1316182 01	1.1734438 01
4.7000002 01	3.7438658-01	2.9378757-05	1.0904684 01	1.1279100 01
4.8000002 01	3.4853647-01	2.6291003-05	1.0549015 01	1.0897578 01
4.9000002 01	3.3359760-01	2.4577944-05	1.0225431 01	1.0559053 01
5.0000002 01	3.2619299-01	2.3812744-05	9.9189473 00	1.0245164 01
5.1000002 01	3.2465925-01	2.3785256-05	9.6188960 00	9.9435790 00
5.2000002 01	3.2828449-01	2.4405664-05	9.3167441 00	9.6450528 00
5.2500002 01	3.3198970-01	2.4953572-05	9.1624825 00	9.4944971 00
5.3000002 01	3.3700420-01	2.5666001-05	9.0048459 00	9.3418757 00
5.3500002 01	3.4340733-01	2.6553004-05	8.8428766 00	9.1863103 00
5.4000002 01	3.5131632-01	2.7629430-05	8.6755666 00	9.0269103 00
5.4500002 01	3.6087207-01	2.8915650-05	8.5018376 00	8.8627584 00
5.5000002 01	3.7234677-01	3.0438559-05	8.3205158 00	8.6928931 00
5.6000002 01	4.0207875-01	3.4344304-05	7.9297135 00	8.3318267 00
5.7000002 01	4.4383495-01	3.9767053-05	7.4904815 00	7.9343562 00
5.8000002 01	5.0324891-01	4.7419500-05	6.9858414 00	7.4891377 00
5.8500002 01	5.4242978-01	5.2442601-05	6.7019105 00	7.2443927 00
5.9000002 01	5.9029771-01	5.8563543-05	6.3919563 00	6.9823125 00
5.9500002 01	6.4951674-01	6.6119244-05	6.0512405 00	6.7008233 00
6.0000002 01	7.2390123-01	7.5592111-05	5.6739328 00	6.3979096 00
6.0500002 01	8.1907037-01	8.7692884-05	5.2528104 00	6.0719684 00
6.1000002 01	9.4558800-01	1.0350458-04	4.7789184 00	5.7226098 00
6.1500002 01	1.1110500 00	1.2474673-04	4.2412356 00	5.3524103 00
6.2000002 01	1.3441329 00	1.5428726-04	3.6266780 00	4.9709651 00
6.2500002 01	1.6830834 00	1.9721620-04	2.9213471 00	4.6046277 00
6.3000002 01	2.2052342 00	2.6331390-04	2.1164158 00	4.3219134 00
6.3500002 01	3.0759165 00	3.7348994-04	1.2313697 00	4.3076597 00
6.4000002 01	4.7067561 00	5.7980272-04	4.1166101-01	5.1189968 00
6.4200002 01	5.7943307 00	7.1737259-04	2.2097185-01	6.0160199 00
6.4300000 01	6.4992601 00	8.0653715-04	2.0004979-01	6.7001164 00
6.4400001 01	7.3533172 00	9.1456204-04	2.6023687-01	7.6144686 00
6.4500002 01	8.4037468 00	1.0474222-03	4.4004531-01	8.8448395 00
6.4600002 01	9.7194250 00	1.2138285-03	7.9913315-01	1.0519772 01
6.4800001 01	1.3631580 01	1.7086243-03	2.5138794 00	1.6147168 01
6.5000002 01	2.1269786 01	2.6771853-03	7.7606748 00	2.9053138 01
6.5200001 01	4.4037050 01	5.5540690-03	3.0850266 01	7.4892869 01
6.5400002 01	1.4884661 02	1.8809418-02	1.6391648 02	3.1278190 02
6.5500002 01	2.9535580 02	3.7338535-02	3.6229680 02	6.5768993 02
6.5600001 01	5.5366863 02	7.0007514-02	7.2194366 02	1.2756823 03
6.5700002 01	9.3122103 02	1.1775680-01	1.2592739 03	2.1906127 03
6.5800000 01	1.3667662 03	1.7284046-01	1.8932945 03	3.2602335 03
6.5900001 01	1.7265279 03	2.1833975-01	2.4354766 03	4.1622228 03
6.5950001 01	1.8304265 03	2.3147987-01	2.6028726 03	4.4335306 03
6.6000002 01	1.8655358 03	2.3592018-01	2.6735393 03	4.5393110 03
6.6050000 01	1.8276848 03	2.3113314-01	2.6398877 03	4.4678037 03
6.6100002 01	1.7215227 03	2.1770678-01	2.5069435 03	4.2286838 03
6.6200002 01	1.3598150 03	1.7196138-01	2.0176276 03	3.3776146 03
6.6300000 01	9.2570225 02	1.1705691-01	1.4083953 03	2.3342146 03
6.6400002 01	5.5091418 02	6.9659243-02	8.7031626 02	1.4213001 03
6.6500002 01	2.7468937 02	3.7254365-02	4.9456682 02	7.8929346 02
6.6600001 01	1.4903835 02	1.8833801-02	2.7542033 02	4.2447751 02
6.6800000 01	4.4161917 01	5.5700419-03	1.0879796 02	1.5296545 02
6.7000002 01	2.1274925 01	2.6755324-03	6.6562346 01	6.7859945 01
6.7200002 01	1.3655943 01	1.7119776-03	4.9681629 01	6.3539284 01
6.7400001 01	9.8119683 00	1.2258499-03	4.0374225 01	5.0187418 01
6.7600000 01	7.5160452 00	9.3550306-04	3.4086131 01	4.1603111 01

TABLE III (continued)

T = 0.1 ev

$E_n$ (ev)	$\sigma_v$ (barns)	$\sigma_F$ (barns)	$\sigma_B$ (barns)	$\sigma_T$ (barns)
6.7800000 01	6.0283324 00	7.473824-04	2.9577771 01	3.5607351 01
6.8000002 01	5.0165728 00	6.1943893-04	2.6158215 01	3.1175407 01
6.8500002 01	3.6059370 00	4.4108895-04	2.0241248 01	2.3847626 01
6.8800001 01	3.1970636 00	3.8941062-04	1.7681663 01	2.0879116 01
6.9000002 01	3.0434454 00	3.7000373-04	1.6200935 01	1.9244750 01
6.9200002 01	2.9711930 00	3.6088712-04	1.4836956 01	1.7808510 01
6.9500002 01	3.0117057 00	3.6604239-04	1.2920041 01	1.5932113 01
6.9800000 01	3.2571394 00	3.9711397-04	1.1055398 01	1.4312934 01
7.0000002 01	3.5734515 00	4.3713902-04	9.7890465 00	1.3362935 01
7.0300001 01	4.4103256 00	5.4301005-04	7.7776874 00	1.2188556 01
7.0500002 01	5.3774091 00	6.6533335-04	6.3218636 00	1.1699938 01
7.0700002 01	6.9724428 00	8.6708369-04	4.7699660 00	1.1743276 01
7.0900002 01	9.7406492 00	1.2424949-03	3.2985113 00	1.3240403 01
7.1000002 01	1.2707686 01	1.5924538-03	2.9594775 00	1.5668756 01
7.1100001 01	1.7814614 01	2.2383403-03	3.8485078 00	2.1665360 01
7.1200002 01	2.8764735 01	3.6232190-03	8.5668036 00	3.7335162 01
7.1300000 01	5.3888759 01	6.8006799-03	2.3733820 01	7.7629380 01
7.1350000 01	7.6529259 01	9.6640417-03	3.9180208 01	1.1571913 02
7.1400001 01	1.0961745 02	1.3848729-02	6.3060091 01	1.7269139 02
7.1500002 01	2.2068809 02	2.7895908-02	1.4822005 02	3.6893604 02
7.1600002 01	4.1068741 02	5.1925246-02	3.0171618 02	7.1245552 02
7.1700002 01	6.7997671 02	8.5982432-02	5.2834060 02	1.2084033 03
7.1800000 01	9.8272115 02	1.2427070-01	7.9404229 02	1.7768877 03
7.1850001 01	1.1191888 03	1.4152985-01	9.1904848 02	2.0383788 03
7.1900002 01	1.2283297 03	1.5533297-01	1.0238263 03	2.2523114 03
7.1950002 01	1.2986678 03	1.6422869-01	1.0979698 03	2.3968018 03
7.1980001 01	1.3187882 03	1.6677331-01	1.1244112 03	2.4433662 03
7.2000002 01	1.3224065 03	1.6723093-01	1.1338685 03	2.4564422 03
7.2020001 01	1.3180484 03	1.6667976-01	1.1365752 03	2.4547903 03
7.2050000 01	1.2968620 03	1.6400031-01	1.1280615 03	2.4250875 03
7.2100001 01	1.2250176 03	1.5491412-01	1.0818901 03	2.3070626 03
7.2150001 01	1.1146851 03	1.4098558-01	1.0011271 03	2.1161532 03
7.2200001 01	9.7802328 02	1.2367660-01	8.9486634 02	1.8730133 03
7.2300000 01	6.7610345 02	8.5492644-02	6.4902615 02	1.3252151 03
7.2400002 01	4.0859554 02	5.1660769-02	4.2162929 02	8.3027650 02
7.2500002 01	2.2003609 02	2.7813549-02	2.5503394 02	4.7509784 02
7.2600002 01	1.0956484 02	1.3844725-02	1.5294794 02	2.6254663 02
7.2700002 01	5.3895632 01	6.8016682-03	9.8135416 01	1.5203785 02
7.2800000 01	2.8611514 01	3.6040608-03	7.0742131 01	9.9357248 01
7.2900001 01	1.7513019 01	2.2003771-03	5.6875305 01	7.4390524 01
7.3000002 01	1.2314056 01	1.5428708-03	4.9110974 01	6.1426573 01
7.3200002 01	7.7066785 00	9.6021810-04	4.0510124 01	4.8217962 01
7.3400002 01	5.5111844 00	6.8254680-04	3.5468449 01	4.0980316 01
7.3600001 01	4.2028749 00	5.1710350-04	3.2024716 01	3.6228107 01
7.3800000 01	3.3449267 00	4.0861758-04	2.9493609 01	3.2838944 01
7.4000002 01	2.7473714 00	3.3306364-04	2.7542135 01	3.0289839 01
7.4500002 01	1.8507332 00	2.1971294-04	2.4148255 01	2.5999207 01
7.5000002 01	1.3699413 00	1.5895416-04	2.1931015 01	2.3301115 01
7.6000002 01	8.9030075-01	9.8386884-05	1.9131310 01	2.0021709 01
7.7000002 01	6.6496382-01	6.9979731-05	1.7367506 01	1.8032539 01
7.8000002 01	5.4170130-01	5.4480339-05	1.6102311 01	1.6644068 01
7.9000002 01	4.6892931-01	4.5364741-05	1.5112349 01	1.5581324 01
8.0000002 01	4.2538480-01	3.9943947-05	1.4284707 01	1.4710132 01
8.0500002 01	4.1132174-01	3.6207962-05	1.3909994 01	1.4321354 01
8.1000002 01	4.0147637-01	3.7064997-05	1.3552964 01	1.3954477 01
8.1500002 01	3.9548976-01	3.6289700-05	1.3206445 01	1.3603971 01
8.2000002 01	3.9321937-01	3.6043974-05	1.2871774 01	1.3265029 01
8.3000002 01	4.0030447-01	3.7021793-05	1.2204253 01	1.2604595 01
8.4000002 01	4.2628883-01	4.0388376-05	1.1513245 01	1.1939574 01
8.5000002 01	4.8133860-01	4.7429482-05	1.0751469 01	1.1232855 01
8.5500002 01	5.2672352-01	5.3208264-05	1.0322474 01	1.0849251 01
8.6000002 01	5.7152566-01	6.1450091-05	9.8435727 00	1.0435220 01
8.6500002 01	6.6710915-01	7.3569269-05	9.2937453 00	9.9809280 00

TABLE III (continued)

T = 0.1 ev

$E_n$ (ev)	$\sigma_y$ (barns)	$\sigma_x$ (barns)	$\sigma_g$ (barns)	$\sigma_T$ (barns)
8.7000002 01	8.3470372-01	9.2273606-05	8.6403961 00	9.4751921 00
8.7500002 01	1.0800548 00	1.2334095-04	7.8293751 00	8.9095532 00
8.7800000 01	1.3156733 00	1.5316217-04	7.2294581 00	8.5452845 00
8.8000002 01	1.5375379 00	1.8123643-04	6.7630062 00	8.3007253 00
8.8200002 01	1.8427102 00	2.1984660-04	6.2271031 00	8.0700331 00
8.8400002 01	2.2825843 00	2.7549254-04	5.6026620 00	7.8855217 00
8.8600000 01	2.9625137 00	3.6149835-04	4.8667504 00	7.8296256 00
8.8800002 01	4.1772902 00	5.1514655-04	4.0233487 00	8.2011541 00
8.9000002 01	7.4030862 00	9.2312954-04	3.4947527 00	1.0898762 01
8.9200002 01	2.1667962 01	2.7272313-03	7.1150098 00	2.8785699 01
8.9300000 01	4.2862781 01	5.4077601-03	1.5188244 01	5.8056432 01
8.9400001 01	8.4676217 01	1.0695937-02	3.3135816 01	1.1782273 02
8.9450002 01	1.1661004 02	1.4734630-02	4.7590175 01	1.6421495 02
8.9500002 01	1.5767163 02	1.9927717-02	6.6726853 01	2.2441841 02
8.9550000 01	2.0814687 02	2.6311352-02	9.0812869 01	2.9898605 02
8.9600002 01	2.6786826 02	3.3864361-02	1.1996477 02	3.8786689 02
8.9700002 01	4.0842486 02	5.1640634-02	1.9076565 02	5.9924215 02
8.9800001 01	5.5428772 02	7.0088014-02	2.6772016 02	8.2207796 02
8.9850001 01	6.1720988 02	7.8045822-02	3.0263573 02	9.1992365 02
8.9900002 01	6.6654800 02	8.4285642-02	3.3150235 02	9.9813463 02
8.9950002 01	6.9731246 02	8.8176448-02	3.5173507 02	1.0491357 03
8.9980001 01	7.0689171 02	8.9387940-02	3.5957230 02	1.0665534 03
9.0000002 01	7.0850891 02	8.9592473-02	3.6245459 02	1.0710531 03
9.0020001 01	7.0661258 02	8.9352652-02	3.6357785 02	1.0702798 03
9.0050000 01	6.9659727 02	8.8086007-02	3.6160832 02	1.0582937 03
9.0100000 01	6.6528020 02	8.4125316-02	3.5075377 02	1.0161181 03
9.0150001 01	6.1546391 02	7.7825028-02	3.2997477 02	9.4551649 02
9.0200001 01	5.5245496 02	6.9856246-02	3.0183717 02	8.5436199 02
9.0300000 01	4.0689338 02	5.1446983-02	2.3286817 02	6.3981300 02
9.0400002 01	2.6718719 02	3.3778284-02	1.6330311 02	4.3052408 02
9.0500002 01	1.5794962 02	1.9962947-02	1.0656893 02	2.6453851 02
9.0600001 01	8.5685323 01	1.0823646-02	6.7233103 01	1.5292933 02
9.0700002 01	4.4347082 01	5.5958343-03	4.3230769 01	8.7585447 01
9.0800000 01	2.3555761 01	2.9660978-03	2.9811026 01	5.3369753 01
9.0900001 01	1.4324862 01	1.7986671-03	2.2520473 01	3.6847134 01
9.0950001 01	1.2186579 01	1.5282409-03	2.0185522 01	3.2373630 01
9.1000002 01	1.1147120 01	1.3967434-03	1.8393796 01	2.7542312 01
9.1050000 01	1.1037248 01	1.3828915-03	1.7006961 01	2.8045592 01
9.1100002 01	1.1867012 01	1.4878357-03	1.5957431 01	2.7825931 01
9.1200002 01	1.7157706 01	2.1569602-03	1.4909542 01	3.2069405 01
9.1300000 01	3.0345341 01	3.8248153-03	1.5938585 01	4.6287751 01
9.1400002 01	5.7161437 01	7.2162700-03	2.0645058 01	7.7813710 01
9.1500002 01	1.0421078 02	1.3166633-02	3.1201384 01	1.3542533 02
9.1600001 01	1.7518626 02	2.2142951-02	4.9353648 01	2.2456205 02
9.1700001 01	2.6555489 02	3.3571939-02	7.4800539 01	3.4038901 02
9.1800000 01	3.5909531 02	4.5402055-02	1.0379812 02	4.6293883 02
9.1850000 01	3.9860227 02	5.0398516-02	1.1740125 02	5.1605392 02
9.1900002 01	4.3087332 02	5.4479670-02	1.2942487 02	5.6035267 02
9.1950002 01	4.4930162 02	5.6810512-02	1.3813515 02	5.8749359 02
9.1980002 01	4.5656787 02	5.7729735-02	1.4236726 02	5.9899486 02
9.2000002 01	4.5757972 02	5.7857475-02	1.4416139 02	6.0179916 02
9.2020002 01	4.5633659 02	5.7700232-02	1.4532315 02	6.0171744 02
9.2050000 01	4.4867359 02	5.6731094-02	1.4537625 02	5.9410657 02
9.2100002 01	4.2978935 02	5.4342790-02	1.4361055 02	5.7345425 02
9.2150002 01	3.9695400 02	5.0190677-02	1.3738171 02	5.3438590 02
9.2200002 01	3.5735552 02	4.5182051-02	1.2880073 02	4.8620142 02
9.2300000 01	2.6366228 02	3.3332621-02	1.0535151 02	3.6904712 02
9.2400001 01	1.7340820 02	2.1918136-02	8.0296742 01	2.5372686 02
9.2500002 01	1.0247817 02	1.2950108-02	5.8922629 01	1.6143375 02
9.2600000 01	5.5302893 01	6.9813025-03	4.3435634 01	9.8745508 01
9.2700002 01	2.8065480 01	3.5365774-03	3.3509378 01	6.1578394 01
9.2800000 01	1.4144317 01	1.7759662-03	2.7639960 01	4.1786053 01
9.3000002 01	4.7676647 00	5.9010936-04	2.2231555 01	2.6999810 01

TABLE III (continued)

T = 0.1 ev

$E_x$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
9.320002 01	2.7436535 00	3.3414514-04	1.9929441 01	2.2673428 01
9.350002 01	1.8018102 00	2.1505008-04	1.7978283 01	1.9780308 01
9.400002 01	1.1830008 00	1.3682274-04	1.6027144 01	1.7210281 01
9.450002 01	9.0811261-01	1.0209107-04	1.4745801 01	1.5654016 01
9.500002 01	7.6305375-01	8.3778724-05	1.3778077 01	1.4541214 01
9.600002 01	6.3720562-01	6.7928532-05	1.2281006 01	1.2918279 01
9.700002 01	6.1752511-01	6.5504413-05	1.1019262 01	1.1636853 01
9.750002 01	6.3461335-01	6.7697640-05	1.0407178 01	1.1041859 01
9.800002 01	6.6942940-01	7.2132675-05	9.7821006 00	1.0451602 01
9.850002 01	7.2476732-01	7.9162891-05	9.1263891 00	9.8512355 00
9.900002 01	8.0632877-01	8.9509350-05	8.4212244 00	9.2276425 00
1.000002 02	1.0961838 00	1.2622950-04	6.7706651 00	7.8669751 00
1.005002 02	1.3545280 00	1.5893311-04	5.7657768 00	7.1204637 00
1.010002 02	1.7625835 00	2.1057057-04	4.5913747 00	6.3541687 00
1.015002 02	2.4585195 00	2.9861622-04	3.2157703 00	5.6745884 00
1.018002 02	3.1423854 00	3.8512319-04	2.3055154 00	5.4482859 00
1.020002 02	3.7972968 00	4.6796220-04	1.6937550 00	5.4915197 00
1.023002 02	5.3162681 00	6.6008528-04	9.0843300-01	6.2253612 00
1.025002 02	6.9941462 00	8.7229936-04	7.2079392-01	7.7158124 00
1.027002 02	9.8564327 00	1.2343062-03	1.5032720 00	1.1360939 01
1.028002 02	1.2266475 01	1.5391117-03	2.9737129 00	1.5241727 01
1.029002 02	1.6143550 01	2.0294535-03	6.3999596 00	2.2545539 01
1.030002 02	2.3025664 01	2.8998443-03	1.4287902 01	3.7316466 01
1.031002 02	3.6063409 01	4.5487421-03	3.1987797 01	6.8055755 01
1.032002 02	6.1038197 01	7.7073238-03	6.9634197 01	1.3068010 02
1.033002 02	1.0703679 02	1.3524798-02	1.4362233 02	2.5067264 02
1.034002 02	1.8552947 02	2.3451820-02	2.7537483 02	4.6092775 02
1.035002 02	3.0641152 02	3.8739853-02	4.8464552 02	7.9109578 02
1.036002 02	4.7086445 02	5.9538317-02	7.7672781 02	1.2476518 03
1.037002 02	6.6382892 02	8.3942654-02	1.1281824 03	1.7920952 03
1.038002 02	8.5170220 02	1.0770310-01	1.4811485 03	2.3329584 03
1.038502 02	9.2984508 02	1.1758588-01	1.6333009 03	2.5632636 03
1.039002 02	9.9007951 02	1.2520376-01	1.7555539 03	2.7457586 03
1.039502 02	1.0279474 03	1.2999294-01	1.8393041 03	2.8673815 03
1.040002 02	1.0405616 03	1.3158827-01	1.8786046 03	2.9192977 03
1.040502 02	1.0269441 03	1.2986606-01	1.8708463 03	2.8979202 03
1.041002 02	9.8818782 02	1.2496453-01	1.8171350 03	2.8054478 03
1.041502 02	9.2726584 02	1.1725970-01	1.7220420 03	2.6494251 03
1.042002 02	8.4868982 02	1.0732215-01	1.5930590 03	2.4418562 03
1.043002 02	6.6078268 02	8.3557433-02	1.2719571 03	1.9328233 03
1.044002 02	4.6858235 02	5.9249746-02	9.3258101 02	1.4012226 03
1.045002 02	3.0513941 02	3.8579026-02	6.3662124 02	9.4179922 02
1.046002 02	1.8505611 02	2.3392022-02	4.1380603 02	5.9888553 02
1.048002 02	6.1129654 01	7.7189839-03	1.7416790 02	2.3530527 02
1.050002 02	2.3035524 01	2.9012077-03	9.3075595 01	1.1611402 02
1.055002 02	6.9223407 00	8.6339236-04	4.8986704 01	5.5909908 01
1.060002 02	3.7463087 00	4.6174606-04	3.6556344 01	4.0303114 01
1.070002 02	1.7397885 00	2.0803631-04	2.6319719 01	2.8059715 01
1.080002 02	1.0934592 00	1.2634996-04	2.1643460 01	2.2737046 01
1.090002 02	8.2289488-01	9.2186075-05	1.8779902 01	1.9602889 01
1.095002 02	7.5208226-01	8.3257345-05	1.7665498 01	1.8417664 01
1.098002 02	7.2330212-01	7.9633627-05	1.7056933 01	1.7780314 01
1.100002 02	7.0900191-01	7.7835767-05	1.6669774 01	1.7378853 01
1.102002 02	6.9831261-01	7.6494560-05	1.6294300 01	1.6992689 01
1.105002 02	6.8871418-01	7.5296603-05	1.5747931 01	1.6436720 01
1.110002 02	6.8949862-01	7.5422260-05	1.4864542 01	1.5554116 01
1.115002 02	7.1252001-01	7.8360067-05	1.3988036 01	1.4700634 01
1.120002 02	7.6246024-01	8.4702136-05	1.3086800 01	1.3849345 01
1.125002 02	8.4957733-01	9.5745826-05	1.2124263 01	1.2973936 01
1.130002 02	9.9501077-01	1.1416462-04	1.1052282 01	1.2047407 01
1.135002 02	1.2452209 00	1.4583444-04	9.7990643 00	1.1044431 01
1.138002 02	1.4886120 00	1.7663153-04	8.9134825 00	1.0402271 01
1.140002 02	1.7192679 00	2.0581286-04	8.2444804 00	9.9639540 00

TABLE III (continued)

T = 0.1 ev

$E_n$ (ev)	$\sigma_n$ (barns)	$\sigma_T$ (barns)	$\sigma_B$ (barns)	$\sigma_T$ (barns)
1.1420002 02	2.0389379 00	2.4625184-04	7.4941192 00	9.5333033 00
1.1440002 02	2.5073541 00	3.0550284-04	6.6429395 00	9.1505990 00
1.1460002 02	3.2721100 00	4.0223202-04	5.6839991 00	8.9565113 00
1.1480002 02	4.9207282 00	6.1074379-04	4.7895674 00	9.7109063 00
1.1500002 02	1.0485427 01	1.3145245-03	5.4628125 00	1.5949554 01
1.1520002 02	3.2817134 01	4.1388390-03	1.5207574 01	4.8028847 01
1.1530002 02	6.0037508 01	7.5814208-03	2.9625417 01	8.9670506 01
1.1540002 02	1.0546079 02	1.3326133-02	5.5450803 01	1.6092492 02
1.1545002 02	1.3669501 02	1.7276347-02	7.3900915 01	2.1061320 02
1.1550002 02	1.7366389 02	2.1951824-02	9.6214737 01	2.6990058 02
1.1560002 02	2.6396591 02	3.3372383-02	1.5233479 02	4.1633407 02
1.1570002 02	3.6707788 02	4.6413024-02	2.1896954 02	5.8609382 02
1.1580002 02	4.6615975 02	5.8943969-02	2.8596212 02	7.5218081 02
1.1585002 02	5.0663142 02	6.4062442-02	3.1486925 02	8.2156473 02
1.1590002 02	5.3720672 02	6.7929327-02	3.3807261 02	8.7534726 02
1.1595002 02	5.5702839 02	7.0436184-02	3.5489288 02	9.1199170 02
1.1598002 02	5.6298599 02	7.1189649-02	3.6142334 02	9.2448052 02
1.1600002 02	5.6404426 02	7.1323486-02	3.6391456 02	9.2803015 02
1.1602002 02	5.6279871 02	7.1165963-02	3.6495061 02	9.2782049 02
1.1605002 02	5.5664061 02	7.0387152-02	3.6383063 02	9.2054163 02
1.1610002 02	5.3640459 02	6.7827890-02	3.5534745 02	8.9181987 02
1.1615002 02	5.0552302 02	6.3922281-02	3.3972165 02	8.4530859 02
1.1620002 02	4.6496465 02	5.8792841-02	3.1743662 02	7.8246007 02
1.1630002 02	3.6591045 02	4.6265406-02	2.5925762 02	6.2521434 02
1.1640002 02	2.6338152 02	3.3298515-02	1.9595053 02	4.5936535 02
1.1650002 02	1.7365025 02	2.1950148-02	1.3827505 02	3.1194725 02
1.1660002 02	1.0610729 02	1.3407957-02	9.3160473 01	1.9928117 02
1.1670002 02	6.1053788 01	7.7100195-03	6.1633122 01	1.2269462 02
1.1680002 02	3.4144579 01	4.3068004-03	4.1583039 01	7.5731924 01
1.1700002 02	1.2223927 01	1.5344924-03	2.2586652 01	3.4812114 01
1.1720002 02	7.2302480 00	9.0294865-04	1.5482117 01	2.2713268 01
1.1730002 02	6.6102159 00	8.2453772-04	1.3352455 01	1.9963495 01
1.1740002 02	6.4791564 00	8.0796735-04	1.1588223 01	1.8068187 01
1.1750002 02	6.6795421 00	8.3331517-04	1.0035406 01	1.6715781 01
1.1760002 02	7.2006740 00	8.9922774-04	8.6514558 00	1.5853029 01
1.1770002 02	8.1572813 00	1.0202153-03	7.5076444 00	1.5665946 01
1.1780002 02	9.8647666 00	1.2361668-03	6.8885792 00	1.6754582 01
1.1800002 02	1.9203660 01	2.4172716-03	1.1199659 01	3.0405736 01
1.1820002 02	5.3764686 01	6.7882351-03	4.3770105 01	9.7541579 01
1.1830002 02	9.3565385 01	1.1821856-02	8.7446613 01	1.8102382 02
1.1840002 02	1.5794645 02	1.9964171-02	1.6261737 02	3.2058378 02
1.1850002 02	2.5182490 02	3.1837046-02	2.7730986 02	5.2916660 02
1.1860002 02	3.7338613 02	4.7210967-02	4.3163075 02	8.0506409 02
1.1870002 02	5.1011187 02	6.4502756-02	6.1201583 02	1.1221922 03
1.1880002 02	6.3904681 02	8.0809246-02	7.9051308 02	1.4296407 03
1.1885002 02	6.9165984 02	8.7463246-02	8.6752849 02	1.5592758 03
1.1890002 02	7.3186688 02	9.2548249-02	9.3026197 02	1.6622214 03
1.1895002 02	7.5704533 02	9.5732588-02	9.7492014 02	1.7320612 03
1.1900002 02	7.6542538 02	9.6792423-02	9.9869973 02	1.7642219 03
1.1905002 02	7.5636902 02	9.5647063-02	1.0001751 03	1.7566397 03
1.1910002 02	7.3057212 02	9.2384516-02	9.7962649 02	1.7102910 03
1.1915002 02	6.8986951 02	8.7236840-02	9.3886055 02	1.6288173 03
1.1920002 02	6.3691420 02	8.0539557-02	8.8084076 02	1.5178355 03
1.1930002 02	5.0780937 02	6.4211588-02	7.2930462 02	1.2371782 03
1.1940002 02	3.7144084 02	4.6964989-02	5.6045680 02	9.3194460 02
1.1950002 02	2.5046391 02	3.1664966-02	4.0469230 02	6.5518786 02
1.1960002 02	1.5707794 02	1.9854390-02	2.8003689 02	4.3713468 02
1.1970002 02	9.2971421 01	1.1746804-02	1.9105303 02	2.8403620 02
1.1980002 02	5.3216689 01	6.7190059-03	1.3315478 02	1.8637819 02
1.2000002 02	1.8383378 01	2.3136252-03	7.7303330 01	9.5689020 01

TABLE IV

Pu<sup>240</sup> CROSS SECTIONSPu<sup>240</sup> Temperature = 0.2 ev

Neutron Energy, E <sub>n</sub> (ev)	Radiative Capture Cross Section, σ <sub>γ</sub> (barns)	Fission Cross Section, σ <sub>f</sub> (barns)	Scattering Cross Section, σ <sub>s</sub> (barns)	Total Cross Section, σ <sub>T</sub> (barns)
2.5300002-02	2.8461560 02	4.8869268-02	1.8524903 00	2.8651695 02
3.5000002-02	2.4649740 02	4.2342193-02	1.7952681 00	2.4833501 02
5.0000007-02	2.1229252 02	3.6490252-02	1.7130901 00	2.1404210 02
6.0000005-02	1.9762265 02	3.3983185-02	1.6599274 00	1.9931656 02
8.0000007-02	1.7808428 02	3.0649113-02	1.5549718 00	1.7966990 02
1.0000002-01	1.6588424 02	2.8572976-02	1.4505778 00	1.6736339 02
1.5000002-01	1.5052151 02	2.5978470-02	1.1898610 00	1.5173735 02
2.0000002-01	1.4578064 02	2.5207798-02	9.3084117-01	1.4673669 02
2.5000002-01	1.4685069 02	2.5438226-02	6.7880258-01	1.4755493 02
3.0000005-01	1.5218477 02	2.6406621-02	4.4306437-01	1.5265424 02
3.5000002-01	1.6140462 02	2.8050657-02	2.3830867-01	1.6167098 02
4.0000006-01	1.7476604 02	3.0471552-02	8.7721718-02	1.7488418 02
4.2000002-01	1.8142636 02	3.1594470-02	5.0295639-02	1.8150825 02
4.4000006-01	1.9894255 02	3.2921257-02	3.0419889-02	1.8900589 02
4.5000005-01	1.9304958 02	3.3645794-02	2.8253393-02	1.9311148 02
4.6000002-01	1.9740661 02	3.4414145-02	3.2016905-02	1.9747304 02
4.8000003-01	2.0693080 02	3.6092888-02	5.9877269-02	2.0702677 02
5.0000002-01	2.1765122 02	3.7981431-02	1.1989935-01	2.1780910 02
5.5000002-01	2.5085912 02	4.3827072-02	4.6289254-01	2.5136584 02
6.0000002-01	2.9642459 02	5.1842151-02	1.2306896 00	2.9770712 02
6.5000002-01	3.6071665 02	6.3145771-02	2.7381123 00	3.6351791 02
7.0000002-01	4.5519943 02	7.9752229-02	5.5929468 00	4.6087213 02
7.5000002-01	6.0231840 02	1.0560468-01	1.1071985 01	6.1349599 02
8.0000002-01	8.5170608 02	1.4942267-01	2.2205490 01	8.7406099 02
8.5000002-01	1.3370236 03	2.3468706-01	4.7779321 01	1.3850376 03
9.0000002-01	2.6051372 03	4.5746939-01	1.2720663 02	2.7328013 03
9.2000002-01	3.8753609 03	6.8061875-01	2.1612779 02	4.0721693 03
9.4000002-01	6.4193215 03	1.1276206 00	4.0568116 02	6.8266303 03
9.6000002-01	1.1485704 04	2.0175753 00	8.0082435 02	1.2288546 04
9.8000002-01	2.0541391 04	3.6084412 00	1.5311626 03	2.2076162 04
1.0000002 00	3.3942964 04	5.9627757 00	2.6422091 03	3.6591156 04
1.0100002 00	4.1624599 04	7.5122520 00	3.2925100 03	4.4924421 04
1.0200002 00	4.9181602 04	8.6398337 00	3.9434705 03	5.3133712 04
1.0300002 00	5.5843839 04	9.8102243 00	4.5311507 03	6.0384800 04
1.0400002 00	6.0839123 04	1.0687776 01	4.9897893 03	6.5839600 04
1.0450002 00	6.2507759 04	1.0980913 01	5.1524404 03	6.7671580 04
1.0500002 00	6.3546583 04	1.1163409 01	5.2646418 03	6.8822388 04
1.0530002 00	6.3853242 04	1.1217284 01	5.3057032 03	6.9170163 04
1.0550002 00	6.3925437 04	1.1229615 01	5.3219638 03	6.9256630 04
1.0575002 00	6.3859815 04	1.1218439 01	5.3296952 03	6.9200729 04
1.0600002 00	6.3629030 04	1.1177896 01	5.3234516 03	6.8963659 04
1.0620002 00	6.3325669 04	1.1124602 01	5.3084799 03	6.8645274 04
1.0650002 00	6.2677251 04	1.1010692 01	5.2696866 03	6.7957949 04
1.0700002 00	6.1104069 04	1.0734326 01	5.1631192 03	6.6277942 04
1.0800002 00	5.6333147 04	9.8961883 00	4.8096258 03	6.1152669 04
1.0900002 00	4.9933994 04	8.7720135 00	4.3114360 03	5.4254201 04
1.1000002 00	4.2646531 04	7.4917879 00	3.7287040 03	4.6382726 04
1.1100002 00	3.5191646 04	6.1821643 00	3.1215176 03	3.8319346 04
1.1200002 00	2.8160056 04	4.9468654 00	2.5403352 03	3.0705338 04
1.1400002 00	1.6764001 04	2.9448590 00	1.5805730 03	1.8347519 04
1.1500002 00	1.2626973 04	2.2184347 00	1.2254196 03	1.3856611 04
1.1700002 00	7.1020505 03	1.2474905 00	7.4097958 02	7.8442976 03
1.2000002 00	3.2615815 03	5.7632934-01	3.9186847 02	3.6740762 03
1.2500002 00	1.3722394 03	2.4090778-01	2.0159878 02	1.5740791 03
1.3000002 00	7.8184617 02	1.3719317-01	1.3529803 02	9.1728139 02
1.3500002 00	5.0094954 02	8.9254867-02	1.0176323 02	6.1080204 02
1.4000002 00	3.5754119 02	6.2658855-02	8.1670622 01	4.4927446 02
1.4500002 00	2.6442710 02	4.6303631-02	6.8414040 01	3.3288744 02
1.5000002 00	2.0304744 02	3.5523179-02	5.9081915 01	2.6216468 02
1.6000002 00	1.2977255 02	2.2655230-02	4.6925635 01	1.7672084 02
1.7000002 00	8.9467366 01	1.5582340-02	3.9435272 01	1.2893822 02
1.8000002 00	6.5094469 01	1.1300967-02	3.4399557 01	9.9505327 01
1.9000002 00	4.9274903 01	8.5254167-03	3.0801079 01	8.0084507 01

TABLE IV (continued)

T = 0.2 ev

$E_n$ (ev)	$\sigma_v$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
2.0000002 00	3.8472651 01	6.6310118-03	2.8110960 01	6.6590242 01
2.1000002 00	3.0793470 01	5.2850127-03	2.6026872 01	5.6827627 01
2.3000002 00	2.0902760 01	3.5529483-03	2.3024861 01	4.3931194 01
2.5000002 00	1.5047183 01	2.5290721-03	2.0968159 01	3.6017871 01
2.8000002 00	9.9516262 00	1.6401271-03	1.8872179 01	2.8825445 01
3.0000002 00	7.8638325 00	1.2769670-03	1.7673234 01	2.5738343 01
3.5000002 00	4.8307475 00	7.5175367-04	1.6152313 01	2.0983812 01
4.0000002 00	3.2947818 00	4.8808901-04	1.5055661 01	1.8351131 01
5.0000002 00	1.8764932 00	2.4822836-04	1.3730494 01	1.5607236 01
6.0000002 00	1.2694069 00	1.4841300-04	1.2946011 01	1.4217566 01
8.0000002 00	7.7567212-01	7.1099850-05	1.2033495 01	1.2809238 01
1.0000002 01	5.8637178-01	4.3987539-05	1.1475198 01	1.2061614 01
1.1000002 01	5.3518625-01	3.7254310-05	1.1254558 01	1.1789781 01
1.3000002 01	4.7992828-01	3.0715552-05	1.0862437 01	1.1342396 01
1.4000002 01	4.7173119-01	3.0126492-05	1.0671446 01	1.1143207 01
1.5000002 01	4.7894096-01	3.1547393-05	1.0469563 01	1.0948535 01
1.6000002 01	5.1052893-01	3.6079779-05	1.0240095 01	1.0750660 01
1.7000002 01	5.9293706-01	4.7047775-05	9.9505181 00	1.0543502 01
1.8000002 01	8.2146176-01	7.6483718-05	9.5184548 00	1.0339933 01
1.8500002 01	1.1041717 00	1.1251268-04	9.1778540 00	1.0282138 01
1.9000002 01	1.7688310 00	1.9683643-04	8.6355412 00	1.0404569 01
1.9200002 01	2.3205661 00	2.6671908-04	8.3052882 00	1.0626121 01
1.9400002 01	3.2973536 00	3.9035774-04	7.8506670 00	1.1148411 01
1.9600002 01	5.4450334 00	6.6207924-04	7.1782836 00	1.2623979 01
1.9800002 01	1.5861343 01	1.9795365-03	6.3334945 00	2.2196817 01
2.0000002 01	1.1196883 02	1.4134408-02	9.6878156 00	1.2167078 02
2.0200002 01	5.2380722 02	6.6219960-02	3.6393093 01	5.6026653 02
2.0220002 01	5.7973317 02	7.3292963-02	4.0642550 01	6.2044901 02
2.0230002 01	6.0749719 02	7.6804293-02	4.2810373 01	6.5038437 02
2.0240002 01	6.3490738 02	8.0273884-02	4.4992346 01	6.7998001 02
2.0250002 01	6.6172146 02	8.3670936-02	4.7176736 01	7.0905187 02
2.0300002 01	7.8218060 02	9.8896646-02	5.7693752 01	8.3997325 02
2.0350002 01	8.6403534 02	1.0924888-01	6.6349790 01	9.3047438 02
2.0370002 01	8.8217795 02	1.1154362-01	6.8956741 01	9.5124823 02
2.0390002 01	8.9095565 02	1.1265350-01	7.0962687 01	9.6203119 02
2.0400002 01	8.9173214 02	1.1275168-01	7.1723957 01	9.6356865 02
2.0410002 01	8.9006353 02	1.1254318-01	7.2317778 01	9.6251385 02
2.0430002 01	8.7960834 02	1.1121841-01	7.2993961 01	9.5271352 02
2.0450002 01	8.5988559 02	1.0872411-01	7.2985301 01	9.3297962 02
2.0500002 01	7.7507417 02	9.7997998-02	7.0132563 01	8.4530472 02
2.0550002 01	6.5359649 02	8.2634658-02	5.3957809 01	7.1763693 02
2.0600002 01	5.1834695 02	6.5276654-02	5.5763154 01	5.7217541 02
2.0800002 01	1.1182465 02	1.4116573-02	2.6327023 01	1.3816579 02
2.1000002 01	1.6101306 01	2.0104665-03	1.6544614 01	3.2647731 01
2.1200002 01	5.3205464 00	6.4713452-04	1.4245615 01	1.7566808 01
2.1400002 01	3.1651141 00	3.7463235-04	1.3276866 01	1.6442354 01
2.1600002 01	2.2042098 00	2.5320197-04	1.2688539 01	1.4893002 01
2.1800002 01	1.6647575 00	1.8507216-04	1.2282479 01	1.3947422 01
2.2000002 01	1.3284460 00	1.4263294-04	1.1981290 01	1.3309879 01
2.2200002 01	1.1037994 00	1.1431528-04	1.1746502 01	1.2850415 01
2.2500002 01	8.8417912-01	8.6678637-05	1.1474091 01	1.2358357 01
2.3000002 01	6.7750766-01	6.0768405-05	1.1146103 01	1.1823671 01
2.4000002 01	4.9746142-01	3.6438768-05	1.0715472 01	1.1212971 01
2.5000002 01	4.2559412-01	2.9772598-05	1.0412857 01	1.0838481 01
2.7000002 01	3.8000267-01	2.4799890-05	9.9301684 00	1.0310196 01
2.8000002 01	3.7921414-01	2.5071822-05	9.7010158 00	1.0080255 01
2.9000002 01	3.8884066-01	2.6645870-05	9.4614219 00	9.8502893 00
3.0000002 01	4.6981648-01	2.9640710-05	9.1991109 00	9.6089568 00
3.1000002 01	4.4593519-01	3.4536958-05	8.8992387 00	9.3452083 00
3.2000002 01	5.0555560-01	4.2392528-05	8.5405919 00	9.0461898 00
3.3000002 01	6.0663169-01	5.5478757-05	8.0886127 00	8.6954998 00
3.4000002 01	7.9158338-01	7.9161470-05	7.4814906 00	8.2731551 00
3.5000002 01	1.1604573 00	1.2862287-04	6.5894798 00	7.7700657 00

TABLE IV (continued)

T = 0.2 ev

$E_n$ (ev)	$\sigma_n$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
3.6000002 01	2.2386925 00	2.6272876-04	5.0962522 00	7.3352073 00
3.6500002 01	3.6581207 00	4.4237620-04	3.8852434 00	7.5438065 00
3.7000002 01	7.6961840 00	9.5320151-04	2.1707137 00	9.8678509 00
3.7200002 01	1.2709700 01	1.5873147-03	1.7975197 00	1.4508807 01
3.7400002 01	3.3243614 01	4.1843015-03	6.5205408 00	3.9768339 01
3.7600002 01	1.4199345 02	1.7938007-02	4.7241594 01	1.8925298 02
3.7650001 01	2.0447029 02	2.5839503-02	7.2689869 01	2.7718600 02
3.7700002 01	2.8906728 02	3.6538547-02	1.0802128 02	3.9712510 02
3.7800002 01	5.3527724 02	6.7676896-02	2.1403470 02	7.4937962 02
3.7900000 01	8.7669354 02	1.1085603-01	3.6596600 02	1.2427704 03
3.8000002 01	1.2531113 03	1.5846184-01	5.3939754 02	1.7926673 03
3.8050002 01	1.4206168 03	1.7964638-01	6.1942307 02	2.0402195 03
3.8100002 01	1.5535340 03	1.9645650-01	6.8554464 02	2.2392751 03
3.8150002 01	1.6384134 03	2.0719125-01	7.3138620 02	2.3700068 03
3.8180002 01	1.6623083 03	2.1021327-01	7.4716619 02	2.4096847 03
3.8200002 01	1.6662794 03	2.1071550-01	7.5240950 02	2.4188996 03
3.8220001 01	1.6605746 03	2.0999401-01	7.5333560 02	2.4141202 03
3.8250002 01	1.6341771 03	2.0665550-01	7.4667473 02	2.3810585 03
3.8300002 01	1.5457248 03	1.9546892-01	7.1517813 02	2.2610984 03
3.8350002 01	1.4104206 03	1.7835692-01	6.6163043 02	2.0722294 03
3.8400002 01	1.2419495 03	1.5705030-01	5.9177205 02	1.8338786 03
3.8500002 01	8.6740736 02	1.0968175-01	4.3025385 02	1.2977709 03
3.8600002 01	5.3036730 02	6.7056134-02	2.7967398 02	8.1010833 02
3.8800002 01	1.4254664 02	1.8008263-02	9.8360173 01	2.4092482 02
3.9000002 01	3.3748270 01	4.2485182-03	4.2159132 01	7.5911650 01
3.9200002 01	1.2736412 01	1.5911834-03	2.8330628 01	4.1068631 01
3.9400001 01	7.6753599 00	9.5115625-04	2.3408204 01	3.1084515 01
3.9600002 01	5.4887510 00	6.7466141-04	2.0617781 01	2.6107206 01
3.9700002 01	4.7891269 00	5.8620291-04	1.9582458 01	2.4372171 01
3.9800001 01	4.2460718 00	5.1754566-04	1.8701001 01	2.2947590 01
3.9900002 01	3.8194794 00	4.6361732-04	1.7936028 01	2.1755971 01
4.0000002 01	3.4834952 00	4.2114837-04	1.7260772 01	2.0744688 01
4.0100002 01	3.2211839 00	3.8799671-04	1.6655085 01	1.9876657 01
4.0200001 01	3.0219905 00	3.6282746-04	1.6103079 01	1.9125432 01
4.0300002 01	2.8807683 00	3.4498985-04	1.5591555 01	1.8472668 01
4.0400002 01	2.7983779 00	3.3459268-04	1.5108797 01	1.7907510 01
4.0600002 01	2.8848542 00	3.4557461-04	1.4184472 01	1.7069672 01
4.0800002 01	4.1330342 00	5.0347772-04	1.3246704 01	1.7380241 01
4.1000002 01	1.2380283 01	1.5465568-03	1.2400800 01	2.4782630 01
4.1200002 01	4.9003396 01	6.1783479-03	1.2785548 01	6.1795122 01
4.1400002 01	1.3893464 02	1.7552049-02	1.6953338 01	1.5590553 02
4.1500002 01	1.9406366 02	2.4524269-02	2.0635994 01	2.1472418 02
4.1550002 01	2.1820337 02	2.7577232-02	2.2618562 01	2.4084951 02
4.1600002 01	2.3720848 02	2.9980844-02	2.4513169 01	2.6175163 02
4.1630002 01	2.4537459 02	3.1013626-02	2.5545694 01	2.7095130 02
4.1650001 01	2.4928058 02	3.1507620-02	2.6172022 01	2.7548411 02
4.1670002 01	2.5187700 02	3.1835997-02	2.6739084 01	2.7864792 02
4.1690002 01	2.5312119 02	3.1993354-02	2.7239705 01	2.8039289 02
4.1700001 01	2.5322913 02	3.2007008-02	2.7463091 01	2.8072423 02
4.1710002 01	2.5299252 02	3.1977062-02	2.7667664 01	2.8069196 02
4.1730002 01	2.5149308 02	3.1787455-02	2.8017981 01	2.7954285 02
4.1750002 01	2.4864909 02	3.1427781-02	2.8287031 01	2.7696755 02
4.1770002 01	2.4451127 02	3.0904473-02	2.8472747 01	2.7301492 02
4.1800002 01	2.3603167 02	2.9832059-02	2.8593795 01	2.6465530 02
4.1850002 01	2.1663916 02	2.7379473-02	2.8387113 01	2.4505365 02
4.1900002 01	1.9229974 02	2.4301275-02	2.7719798 01	2.2004384 02
4.2000002 01	1.3730271 02	1.7345789-02	2.5398634 01	1.6271869 02
4.2200002 01	4.8342907 01	6.0950333-03	1.9908508 01	6.8257510 01
4.2400001 01	1.1875105 01	1.4829712-03	1.6509081 01	2.8385669 01
4.2600002 01	3.2977517 00	3.9823068-04	1.5021494 01	1.8319644 01
4.2800001 01	1.7191195 00	1.9862220-04	1.4295759 01	1.6015077 01
4.3000002 01	1.2788089 00	1.4297770-04	1.3827391 01	1.5106343 01
4.3200002 01	1.0535641 00	1.1453244-04	1.3473010 01	1.4526689 01



TABLE IV (continued)

T = 0.2 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
4.3400002 01	9.0794052-01	9.6156639-05	1.3185224 01	1.4093260 01
4.3600002 01	8.0499737-01	8.3178397-05	1.2941966 01	1.3747046 01
4.3800002 01	7.2815382-01	7.3500725-05	1.2730725 01	1.3458952 01
4.4000002 01	6.6850628-01	6.5997602-05	1.2543644 01	1.3212216 01
4.4200002 01	6.2082080-01	6.0007064-05	1.2375451 01	1.2996331 01
4.4500002 01	5.6485416-01	5.2988858-05	1.2150725 01	1.2715632 01
4.5000002 01	4.9831827-01	4.4672668-05	1.1830245 01	1.2328608 01
4.6000002 01	4.1880200-01	3.4808996-05	1.1317914 01	1.1736751 01
4.7000002 01	3.7470007-01	2.9416427-05	1.0905707 01	1.1280436 01
4.8000002 01	3.4873651-01	2.6316305-05	1.0549629 01	1.0898392 01
4.9000002 01	3.3374448-01	2.4596527-05	1.0225772 01	1.0559541 01
5.0000002 01	3.2631593-01	2.3828305-05	9.9190784 00	1.0245418 01
5.1000002 01	3.2477553-01	2.3799970-05	9.6188429 00	9.9436421 00
5.2000002 01	3.2840704-01	2.4421166-05	9.3165087 00	9.6449399 00
5.2500002 01	3.3211993-01	2.4970053-05	9.1621507 00	9.4942955 00
5.3000002 01	3.3714556-01	2.5683881-05	9.0044146 00	9.3415857 00
5.3500002 01	3.4356344-01	2.6572754-05	8.8423357 00	9.1859255 00
5.4000002 01	3.5149177-01	2.7651622-05	8.6749065 00	9.0264257 00
5.4500002 01	3.6109224-01	2.8940972-05	8.5010498 00	8.8621708 00
5.5000002 01	3.7257844-01	3.0467837-05	8.3195761 00	8.6921850 00
5.6000002 01	4.0240151-01	3.4385108-05	7.9284072 00	8.3308430 00
5.7000002 01	4.4430955-01	3.9827072-05	7.4886823 00	7.9330317 00
5.8000002 01	5.0398925-01	4.7513133-05	6.9833506 00	7.4873873 00
5.8500002 01	5.4337831-01	5.2562574-05	6.6989654 00	7.2423962 00
5.9000002 01	5.9153652-01	5.8720221-05	6.3884549 00	6.9800501 00
5.9500002 01	6.5117079-01	6.6328436-05	6.0470564 00	6.6982934 00
6.0000002 01	7.2616597-01	7.5878521-05	5.6689010 00	6.3951429 00
6.0500002 01	8.2226412-01	8.8096799-05	5.2467282 00	6.0690804 00
6.1000002 01	9.4825554-01	1.0409490-04	4.7715339 00	5.7198935 00
6.1500002 01	1.1181701 00	1.2564722-04	4.2322907 00	5.3505864 00
6.2000002 01	1.3555954 00	1.5573696-04	3.6160226 00	4.9717737 00
6.2500002 01	1.7028590 00	1.9971724-04	2.9094188 00	4.6124775 00
6.3000002 01	2.2426807 00	2.6804981-04	2.1060066 00	4.3489553 00
6.3500002 01	3.1569273 00	3.8373538-04	1.2351889 00	4.3924999 00
6.4000002 01	4.9233607 00	6.0719688-04	4.9355293-01	5.4175207 00
6.4200002 01	6.1486394 00	7.6218224-04	4.0459741-01	6.5539989 00
6.4300000 01	6.7689978 00	8.6594544-04	4.7920508-01	7.4490709 00
6.4400001 01	7.9998287 00	9.9632678-04	6.9922093-01	8.7000460 00
6.4500002 01	9.3447455 00	1.1664308-03	1.1722910 00	1.0518203 01
6.4600002 01	1.1203858 01	1.4015669-03	2.1273145 00	1.3332584 01
6.4800001 01	1.8582766 01	2.3348035-03	8.1523624 00	2.6737463 01
6.5000002 01	4.1944738 01	5.2894297-03	3.4613212 01	7.6563240 01
6.5200001 01	1.1969470 02	1.5122535-02	1.3540641 02	2.5511623 02
6.5400002 01	3.2823571 02	4.1496868-02	4.2180273 02	7.5007993 02
6.5500002 01	5.0270198 02	6.3561727-02	6.6753915 02	1.1703047 03
6.5600001 01	7.1858841 02	9.0865027-02	9.7637142 02	1.6950507 03
6.5700002 01	9.5261036 02	1.2046192-01	1.3167674 03	2.2694982 03
6.5800000 01	1.1668328 03	1.4755478-01	1.6353284 03	2.8023088 03
6.5900001 01	1.3178701 03	1.6665657-01	1.8693129 03	3.1873497 03
6.5950001 01	1.3581530 03	1.7175116-01	1.9374012 03	3.2957259 03
6.6000002 01	1.3711635 03	1.7339687-01	1.9669479 03	3.3382868 03
6.6050000 01	1.3561154 03	1.7149347-01	1.9563641 03	3.3126510 03
6.6100002 01	1.3139778 03	1.6616431-01	1.9065904 03	3.2207344 03
6.6200002 01	1.1603681 03	1.4673975-01	1.7049699 03	2.8655047 03
6.6300000 01	9.4560057 02	1.1957545-01	1.4101042 03	2.3558243 03
6.6400002 01	7.1275691 02	9.0127609-02	1.0830093 03	1.7958563 03
6.6500002 01	4.9891840 02	6.3083328-02	7.7752222 02	1.2765037 03
6.6600001 01	3.2646171 02	4.1272648-02	5.2737224 02	8.5387522 02
6.6800000 01	1.2004156 02	1.5166584-02	2.2071040 02	3.4076713 02
6.7000002 01	4.2412693 01	5.3488586-03	9.9418819 01	1.4183686 02
6.7200002 01	1.8803233 01	2.3629583-03	5.8654528 01	7.7460123 01
6.7400001 01	1.1349296 01	1.4202767-03	4.3342294 01	5.4693010 01
6.7600000 01	8.1786933 00	1.0193105-03	3.5492341 01	4.3672053 01

TABLE IV (continued)

T = 0.2 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
6.7800000 01	6.3920764 00	7.9337197-04	3.0390698 01	3.6783568 01
6.8000002 01	5.2411148 00	6.4783690-04	2.6674433 01	3.1916196 01
6.8500002 01	3.6985603 00	4.5280306-04	2.0440375 01	2.4139388 01
6.8800001 01	3.2638193 00	3.9785322-04	1.7797649 01	2.1061866 01
6.9000002 01	3.1028611 00	3.7751806-04	1.6278958 01	1.9382196 01
6.9200002 01	3.0293131 00	3.6823759-04	1.4884709 01	1.7914390 01
6.9500002 01	3.0796526 00	3.7463568-04	1.2930121 01	1.6010148 01
6.9800000 01	3.3561177 00	4.0963184-04	1.1031241 01	1.4387768 01
7.0000002 01	3.7161299 00	4.5518363-04	9.7426559 00	1.3459241 01
7.0300001 01	4.7137030 00	5.8137833-04	7.7122376 00	1.2426522 01
7.0500002 01	6.0295464 00	7.4781453-04	6.3447047 00	1.2374999 01
7.0700002 01	9.0587417 00	1.1309390-03	5.5888293 00	1.4648702 01
7.0900002 01	1.8814365 01	2.3647590-03	9.0175582 00	2.7834288 01
7.1000002 01	3.0914967 01	3.8951399-03	1.5986430 01	4.6905292 01
7.1100001 01	5.3180583 01	6.7110956-03	3.0875519 01	8.4062812 01
7.1200002 01	9.1898572 01	1.1607791-02	5.9088539 01	1.5099872 02
7.1300000 01	1.5445119 02	1.9518869-02	1.0724126 02	2.6171197 02
7.1350000 01	1.9673015 02	2.4872241-02	1.4080767 02	3.3761269 02
7.1400001 01	2.4719719 02	3.1248522-02	1.8148309 02	4.2871153 02
7.1500002 01	3.7203483 02	4.7036823-02	2.8459523 02	6.5667709 02
7.1600002 01	5.2267541 02	6.6088437-02	4.1264621 02	9.3538771 02
7.1700002 01	6.3257449 02	8.6310971-02	5.5283229 02	1.2354931 03
7.1800000 01	8.2661332 02	1.0452765-01	6.8438715 02	1.5111050 03
7.1850001 01	8.8388958 02	1.1177142-01	7.3934135 02	1.6233427 03
7.1900002 01	9.2707738 02	1.1723341-01	7.8324878 02	1.7104434 03
7.1950002 01	9.5374290 02	1.2060582-01	8.1379620 02	1.7676597 03
7.1980001 01	9.6112864 02	1.2153993-01	8.2501052 02	1.7862609 03
7.2000002 01	9.6234747 02	1.2169406-01	8.2938134 02	1.7918505 03
7.2020001 01	9.6058637 02	1.2147132-01	8.3122976 02	1.7919376 03
7.2050000 01	9.5240839 02	1.2043706-01	8.2927037 02	1.7817992 03
7.2100001 01	9.2452316 02	1.1691040-01	8.1364603 02	1.7382861 03
7.2150001 01	8.8032970 02	1.1132123-01	7.8359568 02	1.6640367 03
7.2200001 01	8.2232703 02	1.0398560-01	7.4098568 02	1.5634167 03
7.2300000 01	6.7779446 02	8.5706499-02	6.2833903 02	1.3062192 03
7.2400002 01	5.1852960 02	6.5564183-02	4.9848564 02	1.0170808 03
7.2500002 01	3.6915101 02	4.6672207-02	3.7275690 02	7.4195458 02
7.2600002 01	2.4562521 02	3.1049836-02	2.6584711 02	5.1150337 02
7.2700002 01	1.5384754 02	1.9442662-02	1.8410719 02	3.3797417 02
7.2800000 01	9.1808366 01	1.1596543-02	1.2698635 02	2.1880631 02
7.2900001 01	5.3227673 01	6.7174835-03	8.9926479 01	1.4316287 02
7.3000002 01	3.0689613 01	3.8921317-03	6.7183787 01	9.8077292 01
7.3200002 01	1.2118550 01	1.5181647-03	4.5559058 01	5.7679126 01
7.3400002 01	6.6582928 00	8.2762225-04	3.7159643 01	4.3818763 01
7.3600001 01	4.6338119 00	5.7160440-04	3.2821882 01	3.7456265 01
7.3800000 01	3.5672173 00	4.3673078-04	2.9965532 01	3.3533186 01
7.4000002 01	2.8006953 00	3.4992523-04	2.7853304 01	3.0734349 01
7.4500002 01	1.8999604 00	2.2593875-04	2.4285954 01	2.6186140 01
7.5000002 01	1.3926515 00	1.6182637-04	2.2004362 01	2.3397175 01
7.6000002 01	8.9731304-01	9.9273729-05	1.9159417 01	2.0056829 01
7.7000002 01	6.6788174-01	7.0348763-05	1.7380915 01	1.8048867 01
7.8000002 01	5.4317619-01	5.4666808-05	1.6109433 01	1.6652664 01
7.9000002 01	4.6977992-01	4.5474815-05	1.5116234 01	1.5586079 01
8.0000002 01	4.2596484-01	4.0019834-05	1.4286650 01	1.4712675 01
8.0500002 01	4.1135386-01	3.8275261-05	1.3911208 01	1.4323100 01
8.1000002 01	4.0197234-01	3.7067727-05	1.3553535 01	1.3955544 01
8.1500002 01	3.7597778-01	3.6351397-05	1.3208425 01	1.3604439 01
8.2000002 01	3.7372679-01	3.6108151-05	1.2871177 01	1.3264940 01
8.3000002 01	4.0093774-01	3.7103602-05	1.2202413 01	1.2603403 01
8.4000002 01	4.2730624-01	4.0517048-05	1.1509747 01	1.1937093 01
8.5000002 01	4.8327014-01	4.7673761-05	1.0745279 01	1.1228597 01
8.5500002 01	5.2957555-01	5.3571487-05	1.0314151 01	1.0843780 01
8.6000002 01	5.9612076-01	6.2023627-05	9.8320702 00	1.0428253 01
8.6500002 01	6.9482439-01	7.4545020-05	9.2773292 00	9.9722281 00

TABLE IV (continued)

T = 0.2 ev

$E_n$ (ev)	$\sigma_p$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
8.7000002 01	8.4919841-01	9.4106767-05	8.6158121 00	9.4651045 00
8.7500002 01	1.1115107 00	1.2731918-04	7.7900678 00	8.9017059 00
8.7800000 01	1.3713811 00	1.6020756-04	7.1753156 00	8.5468568 00
8.8000002 01	1.6256841 00	1.9238433-04	6.6953379 00	8.3212142 00
8.8200002 01	2.0018258 00	2.3997004-04	6.1464704 00	8.1485361 00
8.8400002 01	2.6646615 00	3.2381404-04	5.5468896 00	8.2118749 00
8.8600000 01	4.2836332 00	5.2858110-04	5.1127660 00	9.3969277 00
8.8800002 01	9.4749724 00	1.1851475-03	5.9468565 00	1.5423014 01
8.9000002 01	2.6291771 01	3.3119930-03	1.1835427 01	3.8130510 01
8.9200002 01	7.1943836 01	9.0856514-03	3.1470279 01	1.0342320 02
8.9300000 01	1.1247742 02	1.4211963-02	5.0189368 01	1.6268100 02
8.9400001 01	1.6708456 02	2.1118167-02	7.6326943 01	2.4343262 02
8.9450002 01	1.9943069 02	2.5209007-02	9.2170880 01	2.9162678 02
8.9500002 01	2.3460280 02	2.9657247-02	1.0966020 02	3.4429265 02
8.9550000 01	2.7191719 02	3.4376431-02	1.2849626 02	4.0044783 02
8.9600002 01	3.1042888 02	3.9247022-02	1.4824355 02	4.5871168 02
8.9700002 01	3.8637671 02	4.8852201-02	1.8823218 02	5.7465774 02
8.9800001 01	4.5185414 02	5.7133178-02	2.2436080 02	6.7627206 02
8.9850001 01	4.7728853 02	6.0349883-02	2.3922188 02	7.1657076 02
8.9900002 01	4.9624881 02	6.2747805-02	2.5107462 02	7.4738618 02
8.9950002 01	5.0789588 02	6.4220817-02	2.5942941 02	7.6738950 02
8.9980001 01	5.1112213 02	6.4628842-02	2.6260218 02	7.7378893 02
9.0000002 01	5.1168573 02	6.4700124-02	2.6393003 02	7.7568046 02
9.0020001 01	5.1093001 02	6.4604556-02	2.6459651 02	7.7559112 02
9.0050000 01	5.0741323 02	6.4159777-02	2.6438836 02	7.7186575 02
9.0100000 01	4.9533017 02	6.2631642-02	2.6084464 02	7.5623744 02
9.0150001 01	4.7600586 02	6.0187687-02	2.5350006 02	7.2956612 02
9.0200001 01	4.5031168 02	5.6938133-02	2.4272193 02	6.9309055 02
9.0300000 01	3.8471243 02	4.8641763-02	2.1310402 02	5.9786509 02
9.0400002 01	3.0918269 02	3.9089477-02	1.7707315 02	4.8629493 02
9.0500002 01	2.3422795 02	2.9609916-02	1.3990023 02	3.7415779 02
9.0600001 01	1.6797764 02	2.1231203-02	1.0585907 02	2.7385794 02
9.0700002 01	1.1512620 02	1.4547059-02	7.7573663 01	1.9271441 02
9.0800000 01	7.7203662 01	9.7509792-03	5.6032517 01	1.3324593 02
9.0900001 01	5.3619418 01	6.7682738-03	4.1023932 01	9.4650118 01
9.0950001 01	4.6762171 01	5.9010362-03	3.5726074 01	8.2494145 01
9.1000002 01	4.2948097 01	5.4166721-03	3.1743791 01	7.4697306 01
9.1050000 01	4.2043069 01	5.3042191-03	2.8974040 01	7.1022433 01
9.1100002 01	4.3946599 01	5.5449606-03	2.7327522 01	7.1279665 01
9.1200002 01	5.5997283 01	7.0690246-03	2.7158618 01	8.3162971 01
9.1300000 01	7.8921197 01	9.9682321-03	3.0914325 01	1.0984549 02
9.1400002 01	1.1232501 02	1.4192638-02	3.8402947 01	1.5074215 02
9.1500002 01	1.5467874 02	1.9549345-02	4.9268890 01	2.0396718 02
9.1600001 01	2.0254933 02	2.5603572-02	6.2692504 01	2.6526744 02
9.1700001 01	2.5048179 02	3.1665632-02	7.7250203 01	3.2776366 02
9.1800000 01	2.9175205 02	3.6885112-02	9.1032974 01	3.8282191 02
9.1850000 01	3.0777191 02	3.8913686-02	9.6992955 01	4.0482378 02
9.1900002 01	3.1968195 02	4.0417435-02	1.0196580 02	4.2168816 02
9.1950002 01	3.2692537 02	4.1333516-02	1.0577095 02	4.3273765 02
9.1980002 01	3.2890388 02	4.1583740-02	1.0742304 02	4.3636850 02
9.2000002 01	3.2927636 02	4.1630852-02	1.0826782 02	4.3758581 02
9.2020002 01	3.2876523 02	4.1558622-02	1.0884920 02	4.3759599 02
9.2050000 01	3.2642737 02	4.1270537-02	1.0931167 02	4.3578031 02
9.2100002 01	3.1672020 02	4.0295813-02	1.0893897 02	4.2769946 02
9.2150002 01	3.0638952 02	3.8736345-02	1.0714564 02	4.1357390 02
9.2200002 01	2.8998279 02	3.6661379-02	1.0404731 02	3.9406676 02
9.2300000 01	2.4813641 02	3.1369056-02	9.4655342 01	3.4282362 02
9.2400001 01	1.9982698 02	2.5259321-02	8.2458999 01	2.8231124 02
9.2500002 01	1.5159151 02	1.9158973-02	6.9315782 01	2.2092645 02
9.2600000 01	1.0552890 02	1.3712027-02	5.6833089 01	1.6537570 02
9.2700000 01	7.3553439 01	9.2894664-03	4.6083872 01	1.1964660 02
9.2800002 01	4.7427994 01	5.9853727-03	3.7540342 01	8.4974321 01
9.3000002 01	1.7637811 01	2.2178043-03	2.6681412 01	4.4321441 01

TABLE IV (continued)

T = 0.2 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_g$ (barns)	$\sigma_T$ (barns)
9.3200002 01	6.4426725 00	8.0196224-04	2.1530910 01	2.7974384 01
9.3500002 01	2.2708028 00	2.7436386-04	1.8358209 01	2.0629286 01
9.4000002 01	1.2370539 00	1.4365886-04	1.6128549 01	1.7365747 01
9.4500002 01	9.2807422-01	1.0461563-04	1.4792354 01	1.5720533 01
9.5000002 01	7.7285674-01	8.5018521-05	1.3802761 01	1.4575702 01
9.6000002 01	6.4110679-01	6.8421914-05	1.2288090 01	1.2929265 01
9.7000002 01	6.2031975-01	6.5857851-05	1.1018525 01	1.1638911 01
9.7500002 01	6.3753262-01	6.8066843-05	1.0403476 01	1.1041076 01
9.8000002 01	6.7285905-01	7.2566425-05	9.7754775 00	1.0448409 01
9.8500002 01	7.2919807-01	7.9723246-05	9.1165854 00	9.8458630 00
9.9000002 01	8.1251308-01	9.0291476-05	8.4076839 00	9.2202871 00
1.0000002 02	1.1110148 00	1.2810518-04	6.7467197 00	7.8578626 00
1.0050002 02	1.3803053 00	1.6219319-04	5.7349499 00	7.1154174 00
1.0100002 02	1.8122984 00	2.1685804-04	4.5547969 00	6.3673121 00
1.0150002 02	2.5701456 00	3.1273367-04	3.1886328 00	5.7590911 00
1.0180002 02	3.3466410 00	4.1095552-04	2.3220808 00	5.6691327 00
1.0200002 02	4.1332975 00	5.1045640-04	1.8073715 00	5.9411794 00
1.0230002 02	6.2931607 00	7.8363352-04	1.7609865 00	8.0549308 00
1.0250002 02	9.7080300 00	1.2155257-03	4.1226954 00	1.3831941 01
1.0270002 02	1.8522308 01	2.3302846-03	1.4612561 01	3.3137199 01
1.0280002 02	2.7614631 01	3.4802023-03	2.7468262 01	5.5086373 01
1.0290002 02	4.2404452 01	5.3506857-03	4.9950879 01	9.2360682 01
1.0300002 02	5.5667797 01	8.2928200-03	8.7097490 01	1.5277358 02
1.0310002 02	1.0065223 02	1.2717327-02	1.4495221 02	2.4561716 02
1.0320002 02	1.5052258 02	1.9024465-02	2.2963562 02	3.8017723 02
1.0330002 02	2.1743840 02	2.7487354-02	3.4572112 02	5.6318701 02
1.0340002 02	3.0138501 02	3.8104143-02	4.9410222 02	7.9552533 02
1.0350002 02	3.9906926 02	5.0458336-02	6.6988657 02	1.0690063 03
1.0360002 02	5.0336112 02	6.3648189-02	8.6117563 02	1.3646004 03
1.0370002 02	5.0369735 02	7.6337772-02	1.0495303 03	1.6533040 03
1.0380002 02	5.8764766 02	8.6955026-02	1.2125532 03	1.9002878 03
1.0385002 02	7.1967902 02	9.1006061-02	1.2775228 03	1.9972928 03
1.0390002 02	7.4339312 02	9.4005201-02	1.3282285 03	2.0717156 03
1.0395002 02	7.5785307 02	9.5833966-02	1.3627890 03	2.1207379 03
1.0400002 02	7.6248714 02	9.6420028-02	1.3799552 03	2.1425387 03
1.0405002 02	7.5711729 02	9.5740913-02	1.3791720 03	2.1363850 03
1.0410002 02	7.4196696 02	9.3824841-02	1.3606035 03	2.1026643 03
1.0415002 02	7.1764508 02	9.0748833-02	1.3251206 03	2.0428564 03
1.0420002 02	5.8511668 02	8.6634958-02	1.2742553 03	1.9594586 03
1.0430002 02	5.0059343 02	7.5945260-02	1.1350140 03	1.7356834 03
1.0440002 02	5.0026110 02	6.3256174-02	9.6337054 02	1.4636949 03
1.0450002 02	3.9643596 02	5.0125353-02	7.8133571 02	1.1778218 03
1.0460002 02	2.9946454 02	3.7861329-02	6.0798271 02	9.0748510 02
1.0480002 02	1.4997609 02	1.8955445-02	3.3383754 02	4.8383259 02
1.0500002 02	5.5772069 01	8.3061240-03	1.7328288 02	2.3906325 02
1.0550002 02	9.7232200 00	1.2176212-03	5.5468739 01	6.5193177 01
1.0600002 02	4.0876253 00	5.0491262-04	3.7652106 01	4.1740236 01
1.0700002 02	1.7898812 00	2.1437158-04	2.6530045 01	2.8320140 01
1.0800002 02	1.1085568 00	1.2825936-04	2.1715592 01	2.2824277 01
1.0900002 02	8.2946223-01	9.3016664-05	1.8809684 01	1.9639239 01
1.0950002 02	7.5701064-01	8.3880651-05	1.7684444 01	1.8441538 01
1.0980002 02	7.2765641-01	8.0184308-05	1.7070917 01	1.7798654 01
1.1000002 02	7.1310084-01	7.8354164-05	1.6680828 01	1.7394007 01
1.1020002 02	7.0224802-01	7.6992282-05	1.6302702 01	1.7005027 01
1.1050002 02	6.9256254-01	7.5783309-05	1.5752674 01	1.6445312 01
1.1100002 02	6.9362703-01	7.5944386-05	1.48663546 01	1.5557249 01
1.1150002 02	7.1759331-01	7.9001691-05	1.3981177 01	1.4698849 01
1.1200002 02	7.6954934-01	8.5598700-05	1.3073018 01	1.3842653 01
1.1250002 02	8.6079490-01	9.7164514-05	1.2101218 01	1.2962110 01
1.1300002 02	1.0153187 00	1.1673299-04	1.1015284 01	1.2030719 01
1.1350002 02	1.2891333 00	1.5138807-04	9.7386135 00	1.1027898 01
1.1380002 02	1.5696285 00	1.8687772-04	8.8315597 00	1.0401375 01
1.1400002 02	1.8612832 00	2.2377363-04	8.1501791 00	1.0011686 01

TABLE IV (continued)

T = 0.2 ev

$E_n$ (ev)	$\sigma_\gamma$ (barns)	$\sigma_F$ (barns)	$\sigma_S$ (barns)	$\sigma_T$ (barns)
1.1420002 02	2.3602030 00	2.8688245-04	7.4273828 00	9.7878727 00
1.1440002 02	3.4779185 00	4.2825067-04	6.8329243 00	1.0311271 01
1.1460002 02	6.5966376 00	8.2269460-04	7.0929257 00	1.3690446 01
1.1480002 02	1.5572610 01	1.9578935-03	1.0460612 01	2.6035180 01
1.1500002 02	4.8603579 01	4.8706442-03	2.2060389 01	6.0669339 01
1.1520002 02	8.7550521 01	1.1061761-02	4.9847978 01	1.3741556 02
1.1530002 02	1.2472102 02	1.5761982-02	7.2071338 01	1.9680912 02
1.1540002 02	1.7010165 02	2.1508690-02	1.0004931 02	2.7023247 02
1.1545002 02	1.9542171 02	2.4703547-02	1.1592124 02	3.1136765 02
1.1550002 02	2.2185114 02	2.8046096-02	1.3275888 02	3.5463807 02
1.1560002 02	2.7595427 02	3.4888557-02	1.6799444 02	4.4398360 02
1.1570002 02	3.2717611 02	4.1366618-02	2.0251535 02	5.2973282 02
1.1580002 02	3.6953738 02	4.6724084-02	2.3249855 02	6.0208265 02
1.1585002 02	3.8556428 02	4.8753341-02	2.4457911 02	6.3021214 02
1.1590002 02	3.9774223 02	5.0253232-02	2.5417872 02	6.5167121 02
1.1595002 02	4.0468942 02	5.1169784-02	2.6098036 02	6.6572094 02
1.1598002 02	4.0668630 02	5.1422364-02	2.6360720 02	6.7034512 02
1.1600002 02	4.0704350 02	5.1467514-02	2.6474863 02	6.7184359 02
1.1602002 02	4.0657469 02	5.1408224-02	2.6536774 02	6.7199383 02
1.1605002 02	4.0440354 02	5.1134272-02	2.6536112 02	6.6982080 02
1.1610002 02	3.9689902 02	5.0184639-02	2.6282870 02	6.5977870 02
1.1615002 02	3.8481066 02	4.8656726-02	2.5728461 02	6.4215193 02
1.1620002 02	3.6859637 02	4.6605114-02	2.4895097 02	6.1759414 02
1.1630002 02	3.2608340 02	4.1229091-02	2.2523828 02	5.5136790 02
1.1640002 02	2.7499167 02	3.4766057-02	1.9500737 02	4.7003381 02
1.1650002 02	2.2125937 02	2.7971308-02	1.6197087 02	3.8325821 02
1.1660002 02	1.7008194 02	2.1496067-02	1.2950679 02	2.9961023 02
1.1670002 02	1.2521727 02	1.5824613-02	1.0019668 02	2.2542977 02
1.1680002 02	8.8609241 01	1.1194977-02	7.5518705 01	1.6413914 02
1.1700002 02	4.0627365 01	5.1268927-03	4.1264739 01	8.1897230 01
1.1720002 02	1.3626589 01	2.3442505-03	2.3323119 01	4.1952052 01
1.1730002 02	1.3791085 01	1.7327063-03	1.8421500 01	3.2214317 01
1.1740002 02	1.1632321 01	1.4596912-03	1.5422162 01	2.7055943 01
1.1750002 02	1.1619762 01	1.4581330-03	1.4125333 01	2.5746753 01
1.1760002 02	1.3714394 01	1.7230218-03	1.4764075 01	2.8480192 01
1.1770002 02	1.8387504 01	2.3140375-03	1.8090001 01	3.6479819 01
1.1780002 02	2.6633063 01	3.3568659-03	2.5453354 01	5.2069794 01
1.1800002 02	6.0204204 01	7.6026452-03	6.0793113 01	1.2100500 02
1.1820002 02	1.2928114 02	1.6338843-02	1.4143675 02	2.7073422 02
1.1830002 02	1.3055208 02	2.2823219-02	2.0424398 02	3.8481968 02
1.1840002 02	2.4242268 02	3.6647937-02	2.8219798 02	5.2465131 02
1.1850002 02	3.1190443 02	4.9445444-02	3.7227209 02	6.8429601 02
1.1860002 02	3.3410803 02	4.8566975-02	4.6845597 02	8.5261256 02
1.1870002 02	4.5187094 02	5.7136993-02	5.6214953 02	1.0140776 03
1.1880002 02	5.0755489 02	6.4179382-02	6.4331143 02	1.1509305 03
1.1885002 02	5.2858693 02	6.6839570-02	6.7609793 02	1.2047537 03
1.1890002 02	5.4408398 02	6.8799240-02	7.0225763 02	1.2464106 03
1.1895002 02	5.5350241 02	6.9990398-02	7.2696111 02	1.2745335 03
1.1900002 02	5.5650641 02	7.0370369-02	7.3162172 02	1.2881989 03
1.1905002 02	5.5299621 02	6.9926639-02	7.3394935 02	1.2870175 03
1.1910002 02	5.4310110 02	6.8674945-02	7.2794142 02	1.2711112 03
1.1915002 02	5.2717166 02	6.6660267-02	7.1369737 02	1.2411351 03
1.1920002 02	5.0570707 02	6.3953296-02	6.9239298 02	1.1982239 03
1.1930002 02	4.4957093 02	5.6846140-02	6.3043573 02	1.0800635 03
1.1940002 02	3.8160314 02	4.8280336-02	5.5063198 02	9.3236337 02
1.1950002 02	3.0972764 02	3.9160085-02	4.6257513 02	7.7234193 02
1.1960002 02	2.4047316 02	3.0401438-02	3.7517192 02	6.1567548 02
1.1970002 02	1.7906711 02	2.2627788-02	2.9550405 02	4.7453379 02
1.1980002 02	1.2807386 02	1.6186234-02	2.2775191 02	3.5584195 02
1.2000002 02	5.9228701 01	7.4793574-03	1.3235676 02	1.9159294 02