

**Nuclear Data Section
International Atomic Energy Agency
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Memo CP-D/623

Date: 15 March 2010
To: Distribution
From: N. Otsuka. E. Dupont
Subject: **EXFOR Outliers (Parts 4 and 5)**
Reference: WP2008-03

In 2008, the WPEC sg30 has sent three lists of “EXFOR outliers” (Part. 1, 2 and 3). Totally 134 subentries were checked with the original articles at NDS, and mistakes (by compilers or authors) were detected in 64 subentries. The result was reported in WP2008-03 and almost all mistakes have been corrected by originating centres.

As presented in the 2008 NRDC meeting, detection of “too low” outliers was difficult. In order to improve this point, a logarithmic transformation was introduced in the detection algorithm, and consequently two new lists (Part 4 and 5) were sent to NDS in July and August, 2009. Totally 49 subentries were checked with the original articles at NDS.

| | Total | Part 4 | Part 5 |
|-------------------------|--------------|---------------|---------------|
| Not in error | 19 | 9 | 10 |
| Error (corrected) | 3 | 0 | 3 |
| Error (to be corrected) | 21 | 11 | 10 |
| Not resolved yet | 6 | 0 | 6 |
| Total | 49 | 20 | 29 |

Please find proposed corrections in “Report to WPEC SG30” appended to this memo. A short summary is also shown in the NRDC webpage:
http://www-nds.iaea.org/nrdc/error/exfor_err3.html.

Our special thanks go to Prof. M. Shibata (Nagoya University, Japan), who provided us the correct data values of 22662.014.

Additions of English translation information are also asked for several entries:

| Entry | Russian reference | English translation |
|--------------|--------------------------|----------------------------|
| 40374 | J,ZET,34,574,1958 | J,JET,34,397,1958 |
| 40374 | J,AE,8,549,1960 | J,SJA,8,462,1960 |
| A0271 | J,YF,39,264,1984 | J,SNP,39,164,1984 |
| A0292 | J,IZV,50,2043,1986 | J,BAS,50,169,1986 |
| A0339 | J,AE,63,30,1987 | J,SJA,63,528,1987 |
| F0207 | J,YF,1,55,1965 | J,SNP,1,37,1965 |

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Report to WPEC SG30

Analysis of Emmeric Dupont's "Outliers in EXFOR data base" (Draft Ver. 2010-03-12 by Naohiko)

Source:

Table: Table of data is given in the reference.

Curve: Plot of data is given in the reference.

SCSRS: Data translated from the SCISRS library.

NDD: Data translated from the NEUDADA library.

Author: Data received from authors.

Trans: EXFOR transmission number if corrected

Part 4 (received at NDS on 31 July 2009)

| Subentry | Reference | Reaction | Comments (ED) | Source | Error? | Trans | Comments (NO) |
|-------------|---|-----------------------------------|--|--------|--------|-------|--|
| A0271.005.P | J, YF, 39, 264, 1984 (J, SNP, 39, 164, 1984) | 28-NI-58 (P, N+P) 28-NI-57, , SIG | ~4 times too low. | Table | No | | SF9: Add DERIV Not activation cross section, but cross section from decomposition of neutron spectrum by the statistical model. Enriched target (95.9%) used. |
| A0292.003 | J, IZV, 50, 2043, 1986 (J, BAS, 50, 169, 1986) | 24-CR-52 (P, N) 25-MN-52-M, , SIG | ~5 times too low. This could be gs production (not metastable). This subentry should be cross-checked with A0292.002 (25-MN-52-G production), which is ~5 times too large. | Table | Yes | | SF1: 25-MN-52-G → 25-MN-52-M. (002) 25-MN-52-M → 25-MN-52-G (003) Misprint of Table 1. If we swap σ_g and σ_m in Table 1, their isomeric ratio $\sigma_g/(\sigma_g+\sigma_m)$ plotted in Fig.2 is consistent with Table.1. $\sigma_g+\sigma_m$ (004) is consistent with other works. |
| A0321.004 | J, ARI, 34, 631, 1983 | 30-ZN-66 (P, N) 31-GA-66, , SIG | There is a typo in the xs value at 15 MeV. The threshold is wrong. | Table | Yes | | 45 mb → 435 mb @ 15 MeV (See Table 2) |

| | | | | | | | |
|-------------|--|----------------------------------|--|--------|-----|---|--|
| A0321.005.1 | J, ARI, 34, 631, 1983 | 30-ZN-67 (P,N) 31-GA-67, , SIG | The threshold is wrong. | Table | No | - | F. Szelecsényi <i>et al.</i> , J, ARI, 49, 1005, 1998 (EXFOR C0506) mentions: “Their excitation function not only shows one of the lowest maximum cross section value in comparison with the results of other works, but the whole curve seems to be shifted to higher energy region by about 3 MeV. |
| A0321.005.2 | J, ARI, 34, 631, 1983 | 30-ZN-67 (P, 2N) 31-GA-66, , SIG | The threshold might be wrong, although consistent with another data set (D4093.005). | Table | No | - | (See above.) |
| A0333.004 | J, ARI, 36, 657, 1985 | 29-CU-65 (P,N) 30-ZN-65, , SIG | ~3 times too low. | Table | Yes | | SF1: 29-CU-65 → 29-CU-0 (003-004) Misprint by authors. Authors forget correction by isotopic abundance of ⁶⁵ Cu (30.83%). In Fig.1, they compared their data with the <u>natural</u> copper data by A. Grütter et al. (EXFOR A0178.002, 004). |
| A0339.003.4 | J, AE, 63, 30, 1987 (J, SJA, 63, 528, 1987) | 26-FE-0 (P, X) 25-MN-54, , SIG | The xs values at 37 MeV and 56MeV are both a factor 10 too low. | Author | Yes | | 12.7 → 127 mb (@37.05 MeV) 10.9 → 109 mb (@56.04 MeV) , so that these two data points agree with Fig.5. Note that values of 003.4 at low energy are inconsistent with Fig.5. But other data (EXFOR A0146.015 and T0276.006) are also wrongly plotted in Fig.5. Misprint by authors? |

| | | | | | | | |
|-------------|--|-----------------------------------|---|--------|------|---|--|
| A0339.003.5 | J, AE, 63, 30, 1987 (J, SJA, 63, 528, 1987) | 26-FE-0 (P, X) 27-CO-56, IND, SIG | The threshold is wrong although the shape is realistic. | Author | No? | | 003.5 values are inconsistent with Fig.4. But other data (EXFOR A0146.010 and T0276.002) are also wrongly plotted in Fig.4 Misprint by authors? |
| A0600.002 | J, CNP, 15, 337, 1993 | Energy resolution | EN-ERR=224.9 MeV at EN = 15.929 MeV | Table | Yes | | EN-ERR:224.9 MeV → 0.101 MeV DATA (pt.1): 12.4 mb → 224.9 mb DATA-ERR (pt.1): Add 12.4 mb |
| A0600.002.6 | J, CNP, 15, 337, 1993 | 26-FE-0 (P, X) 27-CO-56, IND, SIG | The threshold is totally wrong. | Table | Yes | | SF4: 27-CO-55 → 27-CO-56 (002.5) 27-CO-56 → 27-CO-55 (002.6) Misprint by authors. They are correctly indicated in Figs.1 and 3. |
| B0073.013 | J, PR, 162, 1055, 1967 | 26-FE-0 (P, X) 25-MN-54, , SIG | ~2 times too low. | Curve | No | - | Not only 013, but several subentries gives systematically low cross sections. |
| B0073.016 | J, PR, 162, 1055, 1967 | 26-FE-0 (P, X) 27-CO-56, , SIG | The threshold is wrong although the shape is realistic. | Curve | No | - | (See above.) |
| C0265.007 | J, PR, 131, 1697, 1963 | 23-V-51 (A, 2A) 21-SC-47, , SIG | ~1000 times too low. The xs unit should be milli-barn (not micro-barn) | Table | Yes | | MICRO-B → MB (007-009) EN → EN-CM (010-013) 012: First three points should be coded under DATA-MAX. |
| C0739.005 | T, QIANG, 1990 | 29-CU-63 (P, N) 30-ZN-63, , SIG | ~1000 times too low. The xs unit should be milli-barn (not micro-barn) | Table | Yes? | | MICRO-B → MB? (C0739.002, 005, 008, C0738.002) Misprint by authors? |
| D0054.002 | T, SCHOLTEN, 1993 (J, RCA, 65, 81, 1994) | 13-AL-27 (P, X) 4-BE-7, , SIG | ~1000 times too large. The xs unit should be micro-barn (not milli-barn). | Author | Yes | | MB → MICRO-B (002-005) Their final values (Table 2 of J,RCA,65,81,1994) must be used. |

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|-----------|---|--|---|--------|-----|---|---|
| D0093.002 | J, ENM, 6, 411, 1981 | 52-TE-123 (P,N) 53-I-123,, SIG | ~3 times too low. | Table | No | - | Enriched (87.45%) sample used. |
| D4036.002 | J, RCA, 65, 81, 1994 | 13-AL-27 (P,X) 4-BE-7,, SIG | idem D0054.002 | Table | Yes | | Delete. Duplication of EXFOR D0054.002. |
| F0207.007 | J, YF, 1, 55, 1965 (J, SNP, 1, 37, 1965) | 4-BE-9 (HE3,N) 6-C-11,, SIG | ~20 times too low. | Curve | No | | No mistake in digitization. Activation cross section. No such underestimation in their $^{12}\text{C}(^3\text{He},\alpha)^{11}\text{C}$ data (EXFOR F0207.005). Russian Data Centre (CAJaD) tried to contact with the author (O. D. Brill'). But the author died 30 years ago. |
| M0473.004 | J, PR/C, 30, 1855, 1984 | 29-CU-63 (E,N) 29-CU-62,, SIG+ 29-CU-63 (G,N) 29-CU-62,, SIG | ~10 times too low at 25 MeV. The shape is wrong. The projectile could be electron (not photon). | Author | Yes | | SF8: Add BRA in the 2nd term EN→EN-MAX?. (γ,n) cross section is Bremsstrahlung spectrum averaged (See Eq.4 of the article). |
| O0350.030 | J, JGR, 81, 5689, 1976 | 22-TI-0 (P,X) 23-V-48, CUM, SIG | The shape is not correct. | Table | No | | SF5: Delete CUM (No precursor) Monitor cross section $^{nat}\text{Mg}(p,x)^{22}\text{Na}$ used by the authors (EXFOR O0972.005) is not so bad. F. Szelecsényi <i>et al.</i> , J, NIM/B, 174, 47, 2001 (EXFOR D4083.002) mentions that the data are obviously erroneous probably due to the unreliable beam current determination. |

Part 5 (Received at NDS on 31 August 2009)

| Subentry | Reference | Reaction | ED Comments | Source | Error? | Trans | NRDC Comments |
|-----------|-------------------------|------------------------------|---|--------|--------|-------|------------------------|
| 10074.043 | J, NP/A, 163, 592, 1971 | 23-V-0 (N,TOT) ,, SIG, , RAW | likely to be the same issue as in 10074.052 | Author | ? | | Raw data from authors. |

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|-----------|------------------------|---|--|--------|------|---|
| 10422.006 | C, 76ANL, , 47, 1976 | (92-U-238 (N, F) , , SIG) / (92-U-233 (N, F) , , SIG) | The MONITOR field is suspicious. Moreover, the monitor might be 235U (not 233U). | Author | No | Agree with Fig.2 (a) (except for the last 6 points which are not shown.). The ratio agrees with JENDL-3.3 and ENDF-B/VII.0. |
| 11329.032 | J, PR, 122, 182, 1961 | 49-IN-0 (N, G) , , SIG | The first point (at 175 eV) is probably wrong. Its value corresponds to one of the last points (at 175 keV). | SCSRS | Yes? | Delete 0.23 b (@0.175 keV) ? Value at 0.175 keV (0.23 b) is equal to value at 175 keV (0.23 b). No such data point at 0.175 keV in Fig.13. The following data points are not in Fig.13: 488 mb (@ 87 keV) → 388 mb ? (Corresponding data point exists in Fig.13.) 478 b (@ 89 keV) → 378 mb ? (Close to the theoretical fit in Fig.13) 350 b (@ 983 keV) → 98.3 keV ? (Close to the theoretical fit in Fig.13) |
| 11447.073 | J, PR, 72, 888, 1947 | 49-IN-113 (N, G) 49-IN-114-M, , SIG, , MXW | ~10 times too large | SCSRS | No | Reliable isotopic abundance $a(^{115}\text{In})=4.5\%$ is used. Their $^{115}\text{In}(n,\gamma)^{116\text{m}}\text{In}$ cross section in EXFOR 11447.073 (144.6 mb) is not so bad. No discussion about this data in other works (EXFOR 11748, 20643, 31470). |
| 11504.006 | R, UCRL-6028-T, 1960 | 39-Y-89 (N, A) 37-RB-86, , SIG | ~3 times too low | | | <i>Waiting a copy from library</i> |
| 11583.020 | J, NP/A, 98, 451, 1967 | 82-PB-206 (N, A) 80-HG-203, , SIG | ~10 times too large | Table | No | Ti, Ni and Pb targets were irradiated in the same condition with 2mg/cm ² Al foils for the flux monitor. No such deviation is seen in their Ti and Ni data (EXFOR 11583.003-005). All other data in EXFOR are derived with 279.2 keV γ -ray (81.5%) from ²⁰³ Hg. Yuan Junqian <i>et al.</i> , J,NTC,16,518,1993 (EXFOR 31637.003) mentions that use of this γ line is more simple and accurate than β -ray measurement used in 11583.020. |

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|-----------|----------------------------|---|---|-------|------|--|--|
| 11655.002 | R, GA-3069, 1962 | 23-V-51 (N, G) 23-V-52, , RI | ~10 times too low compared to other "RI" data. However, the value is consistent with "RI,RNV" data. | | | | <i>Waiting a copy from library</i> |
| 11740.004 | J, NP, 15, 326, 1960 | 27-CO-59 (N, 2N) 27-CO-58-M, , SIG | ~100 times too low | Table | Yes? | | 4 +/- 2 mb → 150 +/- 5 mb ? As mentioned in COMMENT, 150 +/- 5 mb is given in text (4 +/- 2 mb in Table 1 is adopted in EXFOR). No plot in the article. |
| 12325.003 | J, NP, 38, 561, 1962 | (92-U-234 (N, F) , , SIG) / (92-U-235 (N, F) , , SIG) | Uncertainties lie between 100 % and 40000 %. This is the threshold region however. | Table | Yes | | DATA-ERR: NO-DIM → PER-CENT |
| 12343.002 | J, PR, 142, 778, 1966 | (92-U-233 (N, F) , , SIG) / (92-U-235 (N, F) , , SIG) | The last point (at 7.75 MeV) is ~2 times too low | SCSRS | ? | | INC-SOURCE: Add EXPLO. Only averaged data are given in the article. |
| 12602.003 | R, IN-1317, 53, 1970 | 30-ZN-68 (N, G) 30-ZN-69-M, , SIG, , MXW | ~1000 times too low | | | | <i>Waiting a copy from library</i> |
| 12977.003 | S, ASTM-STP-956, 743, 1987 | 21-SC-45 (N, 2N) 21-SC-44, , SIG | ~2 times too low. However, these values are consistent with gs production. | Table | Yes? | | SF4: 21-SC-44 → 21-SC-44-G ? 1157.0 keV ($I_\gamma=99.9\%$) is coded (not given in the article.) This intensity is for the ground state production. For the isomer (58.6 h), the intensity of the 1157.0 keV gamma line is very low. |
| 14128.002 | J, NSTS, 2, 614, 2002 | 69-TM-169 (N, G) 69-TM-170, , SIG | The data are shifted by a factor 1000 in energy. The energy unit should be eV (not keV). | Curve | Yes | | EN: KEV → EV |

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|-----------|------------------------|------------------------------------|--|-------|-----|---|
| 20889.010 | J, NP/A, 93, 218, 1967 | 14-SI-29 (N, P) 13-AL-29, , SIG | ~5 times too low | Table | No | The authors know the large deviation. Absolute measurement by β -ray spectrometry. Absolute values of other 22889 data sets are not so bad. See Table 2 of J. C. Robertson <i>et al.</i> , J,JNE,27,531, 1973 (EXFOR 20799) for systematic comparison (without any specific comment about EXFOR 20889.010). |
| 20939.005 | R, EANDC-50, 98, 1967 | 94-PU-239 (N, TOT) , , SIG | ~100 times too low. Are these values xs? | NDD | ? | Peak cross sections? But no such resonances in Table 1. |
| 21668.003 | J, ZN/A, 15, 200, 1960 | 11-NA-23 (N, P) 10-NE-23, , SIG | ~5 times too low | Table | No | The authors know the deviation of their value (9 mb @ 14.1 MeV) from 33.9 mb @ 14.5 MeV by E. B. Paul <i>et al.</i> , J,CJP,31,267,1953 (EXFOR 11274.006). |
| 21918.002 | J, JP/G, 9, 1549, 1983 | 49-IN-113 (N, 2N) 49-IN-112, , SIG | ~5 times too low. However, the value is consistent with gs production. | Table | Yes | SF4: 49-IN-112 \rightarrow 49-IN-112-G (002) 49-IN-114 \rightarrow 49-IN-114-G (005) , then 003/002 ~ 010 and 006/005~011 as should be. |

| 22662.014 | J, ANE, 28, 1175, 2001 | 58-CE-140 (N, 2N) 58-CE-139-M, , SIG | ~100 times too low | Table | Yes | <p>Data should be corrected. $^{140}\text{Ce}(n,2n)^{139m}\text{Ce}(T_{1/2}=56.54\text{ s})$ Misprint in Table 4 of J,ANE,28,1175,</p> <table border="1"> <thead> <tr> <th>E_n (MeV)</th> <th>σ (mb)</th> <th>δ_c (%)</th> <th>δ_r (%)</th> <th>δ_t (%)</th> </tr> </thead> <tbody> <tr> <td>14.87</td> <td>983</td> <td>3.1</td> <td>3.0</td> <td>4.3</td> </tr> <tr> <td>14.58</td> <td>966</td> <td>3.0</td> <td>3.0</td> <td>4.3</td> </tr> <tr> <td>14.28</td> <td>958</td> <td>3.2</td> <td>3.0</td> <td>4.3</td> </tr> <tr> <td>13.88</td> <td>948</td> <td>3.0</td> <td>3.0</td> <td>4.3</td> </tr> <tr> <td>13.65</td> <td>899</td> <td>3.0</td> <td>3.0</td> <td>4.3</td> </tr> <tr> <td>13.40</td> <td>893</td> <td>3.0</td> <td>3.0</td> <td>4.3</td> </tr> </tbody> </table> <p>2001. The correct data are provided by Prof. M. Shibata (Nagoya Univ.) on 2010-03-09. The correct data set is also shown in T,SAKANE,200203.</p> | E_n (MeV) | σ (mb) | δ_c (%) | δ_r (%) | δ_t (%) | 14.87 | 983 | 3.1 | 3.0 | 4.3 | 14.58 | 966 | 3.0 | 3.0 | 4.3 | 14.28 | 958 | 3.2 | 3.0 | 4.3 | 13.88 | 948 | 3.0 | 3.0 | 4.3 | 13.65 | 899 | 3.0 | 3.0 | 4.3 | 13.40 | 893 | 3.0 | 3.0 | 4.3 |
|----------------|----------------------------|--------------------------------------|--------------------|-------------------|-----|--|----------------|------------------|-------------------|-------------------|-------------------|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|
| E_n (MeV) | σ (mb) | δ_c (%) | δ_r (%) | δ_t (%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14.87 | 983 | 3.1 | 3.0 | 4.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14.58 | 966 | 3.0 | 3.0 | 4.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14.28 | 958 | 3.2 | 3.0 | 4.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.88 | 948 | 3.0 | 3.0 | 4.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.65 | 899 | 3.0 | 3.0 | 4.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.40 | 893 | 3.0 | 3.0 | 4.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22743.002 | C, 2004SANTA, 1, 769, 2004 | 13-AL-27 (N, TOT) , , SIG, , , DERIV | ~10 times too low | Table | Yes | <p>SF3: TOT → X, SF4: 2-HE-4 (002) SF4: 1-H-1 → 2-HE-4 (003) Confirmed by Prof. I. Murata (Osaka Univ.) on 2010-03-09.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22992.002 | J, RCA, 95, 313, 2007 | 63-EU-153 (N, P) 62-SM-153, , SIG | ~10 times too low | Table | Yes | <p>Delete. The value was cross section averaged for D-Be neutron spectrum measured in another work (M. Al-Abyad <i>et al.</i>, J,ARI,64,717,2006, EXFOR 22857.007).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|-------------|---|---------------------------------------|---|-------|-------|------|---|
| 30008.034 | J, NP, 30, 49, 1962 | 39-Y-89 (N, A) 37-RB-86, , SIG | ~10 times too large | Table | No | | Both β and γ activities were measured. A similar large value is also reported by E. B. Paul et al, J,CJP,31,267,1953 (EXFOR 11274.062). About half of EXFOR works use 1077 keV γ -ray (8%) for identification of ^{86}Rb . |
| 30322.012.2 | J, JRC, 14, 201, 1973 | 49-IN-115 (N, 2N) 49-IN-114-M1, , SIG | ~100 times too low | Table | No | | The 2.5 sec state (" $^{114m2}\text{In}$ " in the article) is not in the current ENSDF database. |
| 40374.006 | J, ZET, 34, 574, 1958 (J, JET, 34, 397, 1958) J, AE, 8, 549, 1960 (J, SJA, 8, 462, 1960) | 24-CR-0 (N, G) , , SIG | ~10 times too large | Table | No | | |
| 40421.014 | J, JNE/A, 11, 46, 1959 | 38-SR-86 (N, G) 38-SR-87, , SIG | ~5 times too large (confusion with sub .015?) | Table | No | | Data used for normalization ^{127}I neutron capture cross section 0.82 b @ 25 keV is reliable. |
| 40421.015 | J, JNE/A, 11, 46, 1959 | 41-NB-93 (N, G) 41-NB-94, , SIG | ~2 times too low (confusion with sub. 014?) | SCSRS | No | | (See above.) |
| 40816.003 | C, 65ANTWERP, , 576(202), 1965 | 71-LU-0 (N, G) , , SIG | ~10 times too low | SCSRS | Yes | | DATA should be multiplied by 10 , so that the data set agrees with Fig.2. |
| 41104.005 | J, IZV, 54, 1006, 1990 | 63-EU-151 (N, G) 63-EU-152, , SIG | ~2000 times too low | Table | (Yes) | 4148 | Corrected by CJD (November 2009) SF4: 63-EU-152 \rightarrow 63-EU-152-M2 (96 min). |
| 41359.002 | C, 96MITO, 2, 338, 1996 | 96-CM-245 (N, F) , , SIG, , MXW | ~1000 times too low. It is likely the MXW average energy (25 meV) is not correct. | Table | (Yes) | 4148 | Corrected by CJD (September 2009) $\langle E_n \rangle$: 0.0253 eV \rightarrow 0.5 MeV. |
| 41359.004 | C, 96MITO, 2, 338, 1996 | 96-CM-247 (N, F) , , SIG, , MXW | ~50 times too low. It is likely the MXW average energy (25 meV) is not correct. | Table | (Yes) | 4148 | Corrected by CJD (September 2009) $\langle E_n \rangle$: 0.0253 eV \rightarrow 0.5 MeV. |