

EXFOR News (April 2022)

New experimental data available from Nuclear Reaction Data Centres

EXFOR [1] is a world-wide data library for experimental neutron, charged-particle and photon induced reaction data compiled by the [International Network of the Nuclear Reaction Data Centres \(NRDC\)](#)^a coordinated by the [IAEA Nuclear Data Section](#). Regularly updated web retrieval databases are available at [IAEA-NDS](#) as well as [NNDC](#), [NEADB](#), [JCPRG](#) and [CDFE](#).

This News lists newly created EXFOR entries as well as revised EXFOR entries where new data subentries are added. Entries from articles published in past 10 years are flagged by asterisks (*). Please send an email to the NRDC Coordinator (n.otsuka@iaea.org) for inclusion in the EXFOR News distribution list as well as any question on EXFOR.

[1] N. Otuka, E. Dupont, V. Semkova, B. Pritychenko et al., [Nucl.Data.Sheets](#) **120**(2014)272.

Quantity codes

| | | | |
|-----|---|-----|--|
| ALF | α -value ($\sigma_{\text{capt}}/\sigma_{\text{fis}}$) | KE | Kinetic energy |
| AMP | Scattering length | INT | Cross section integral over incident energy |
| CHG | Fragment charge | KER | Kerma factor |
| CS | Cross section | MAS | Fragment mass |
| CSP | Partial cross section | MFQ | Differential fission neutron multiplicity |
| CST | Temperature dependent cross section | MLT | Multiplicity |
| D3A | Triple differential $d\Omega_1/d\Omega_2/dE'$ | NQ | Nuclear quantity |
| D3E | Triple differential $d\Omega/dE'_1/dE'_2$ | NU | Fission neutron multiplicity $\bar{\nu}$ |
| D4A | Quadruple diff. $d\Omega_1/d\Omega_2/dE'_1/dE'_2$ | NUD | Delayed fission neutron multiplicity $\bar{\nu}_d$ |
| DA | Differential $d/d\Omega$ | POL | Polarization |
| DAA | Double differential $d\Omega_1/d\Omega_2$ | POD | Differential polarization |
| DAE | Double differential $d\Omega/dE'$ | PY | Product yield (other than fission) |
| DAP | Partial differential $d/d\Omega$ | RI | Resonance integral |
| DAT | Temperature-dependent Legendre coefficient | RP | Resonance parameter |
| DE | Differential d/dE' | RR | Reaction rate |
| DEP | Energy spectrum for specific group | SIF | Self indication |
| DP | Diff. by linear momentum of outgoing part. | SPC | Gamma spectrum |
| DT | Diff. by 4-momentum transfer squared | TSL | Thermal scattering |
| ETA | η -value = $\bar{\nu}\sigma_{\text{fis}}/(\sigma_{\text{capt}} + \sigma_{\text{fis}})$ | TT | Thick target yield |
| EVL | Evaluation | TTD | Differential thick target yield, $d/d\Omega$ |
| FY | Fission product yield | TTP | Partial thick target yield |

Special codes in outgoing particle field

| | | | | | | | |
|-----|------------|------|------------|-----|-----------------------|-----|-------|
| abs | Absorption | fus | Fusion | sct | Scattering | tot | Total |
| el | Elastic | inel | Inelastic | tex | Total charge changing | | |
| fis | Fission | non | Nonelastic | ths | Thermal scattering | | |

Special codes in incident energy field

| | | | |
|------|-------------------------------|-------|-----------------------------|
| Fast | Fast reactor spectrum average | Maxw | Maxwellian spectrum average |
| Fiss | Fission spectrum average | Spont | Spontaneous (for fission) |

^a [NNDC](#) (USA), [NEADB](#) (France), [NDS](#) (Austria), [CJD](#) (Russia), [CNDC](#) (China), [ATOMKI](#) (Hungary), [NDPCI](#) (India), [JAEA](#) (Japan), [JCPRG](#) (Japan), [KAERI](#) (Korea), [CDFE](#) (Russia), [CNPD](#) (Russia), [UkrNDC](#) (Ukraine)

1 Hydrogen 2

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|--------------|--------|---------|-------------|--------|------|-------------------------------|------|-----------------|-----------------------|
| | | | | Min | Max | | | | | |
| $n,2n$ | ^1H | DA | 2UK HAR | 1.3+08 | 1.3+08 | Jour | NP/A,239,29 | 75 | M.W.Mcnaughton+ | 21601 |

2 Helium 4

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------------|--------|---------|-------------|--------|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| p,el | ^4He | DT | 1USAANL | 5.6+08 | 1.7+09 | Jour | PL/B,70,155 | 77 | R.Klem+ | C2666 |

3 Lithium 6

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------------------|---------------|--------|---------|-------------|--------|------|----------------------------------|--------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,tot | | CS | 1USAORL | 5.8+04 | 5.4+05 | Conf | 75WASH,1,244 | Mar 75 | J.A.Harvey+ | 10451 |
| * $^3\text{He},p$ | ^8Be | DAP | 3CPRBJG | 1.2+06 | 3.0+06 | Jour | NIM/B,494-495,23 | 21 | Jipeng Zhu+ | S0268 |
| * $^{10}\text{B},el$ | ^6Li | DA | 3POLWWA | 5.1+07 | 5.1+07 | Jour | YFE,21,29 | 20 | A.T.Rudchik+ | D5190 |
| * $^{10}\text{B},inel$ | ^6Li | DAP | 3POLWWA | 5.1+07 | 5.1+07 | Jour | YFE,21,29 | 20 | A.T.Rudchik+ | D5190 |
| * $^{15}\text{N},el$ | ^6Li | DA | 3POLWWA | 8.1+07 | 8.1+07 | Jour | YFE,20,366 | 19 | A.T.Rudchik+ | D5188 |
| * $^{15}\text{N},inel$ | ^6Li | DAP | 3POLWWA | 8.1+07 | 8.1+07 | Jour | YFE,20,366 | 19 | A.T.Rudchik+ | D5188 |

3 Lithium 7

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------------|---------------|--------|---------|-------------|--------|------|----------------------------------|------|---------------|-----------------------|
| | | | | Min | Max | | | | | |
| p,n | ^7Be | CS | 1USAINU | 1.2+08 | 1.2+08 | Jour | NP/A,331,29 | 79 | C.A.Goulding+ | C2624 |
| * p,n | ^7Be | CS | 3CZRUF | 1.3+07 | 3.4+07 | Jour | NP/A,1016,122310 | 21 | E.Simeckova+ | D0995 |
| p,n | ^7Be | DAP | 1USAINU | 1.2+08 | 1.2+08 | Jour | NP/A,331,29 | 79 | C.A.Goulding+ | C2624 |
| * $^3\text{He},d$ | ^8Be | DAP | 3CPRBJG | 1.2+06 | 3.0+06 | Jour | NIM/B,494-495,23 | 21 | Jipeng Zhu+ | S0268 |
| * $^3\text{He},p$ | ^9Be | DAP | 3CPRBJG | 1.2+06 | 3.0+06 | Jour | NIM/B,494-495,23 | 21 | Jipeng Zhu+ | S0268 |

4 Beryllium 9

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------------|--------|---------|-------------|--------|------|-------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,t | ^7Li | CS | 2GERJUL | 1.8+07 | 3.0+07 | Jour | RCA,43,133 | 88 | A.Suhaimi+ | 22102 |

5 Boron 11

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | | |
|------------|-----------------|-----|---------|--------|--------|------|------------------------------|----|-------------|-----------------------|
| <i>p,n</i> | ¹¹ C | CSP | 1USALRL | 1.6+07 | 2.3+07 | Jour | PR/C,31,1679 | 85 | S.M.Grimes+ | C2665 |
| <i>p,n</i> | ¹¹ C | DAP | 1USALRL | 1.6+07 | 2.3+07 | Jour | PR/C,31,1679 | 85 | S.M.Grimes+ | C2665 |

6 Carbon

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|----------------------|------------------|------|-------------|--------|--------|-------------------------------|---------------------------------|--------|-------------|-----------------------|
| | | | | Min | Max | | | | | | |
| * | <i>p,el</i> | ^{nat} C | DA | 3AULCBR | 1.0+07 | 1.1+07 | Jour | PR/C,104,024620 | 21 | K.J.Cook+ | D1006 |
| * | ²⁸ Si,tcc | | CS | 2JPNIRS | 2.0+10 | 2.0+10 | Jour | CNPR,34,545 | 17 | Lijunsheng+ | S0254 |
| * | ²⁸ Si,x | Many | CS | 2JPNIRS | 2.0+10 | 2.0+10 | Jour | CNPR,34,545 | 17 | Lijunsheng+ | S0254 |

6 Carbon 12

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|----------------------------------|------------------|------|-------------|--------|--------|-------------------------------|---------------------------------|--------|----------------|-----------------------|
| | | | | Min | Max | | | | | | |
| * | <i>p,inel</i> | ¹² C | CSP | 3AULCBR | 1.0+07 | 1.1+07 | Jour | PR/C,104,024620 | 21 | K.J.Cook+ | D1006 |
| * | <i>p,inel</i> | ¹² C | DAP | 3AULCBR | 1.0+07 | 1.1+07 | Jour | PR/C,104,024620 | 21 | K.J.Cook+ | D1006 |
| | <i>p,inel</i> | ¹² C | DAP | 1USAINU | 6.2+07 | 6.2+07 | Jour | NP/A,331,29 | 79 | C.A.Goulding+ | C2624 |
| | <i>p,n</i> | ¹² N | DAP | 1USAINU | 6.2+07 | 1.2+08 | Jour | NP/A,331,29 | 79 | C.A.Goulding+ | C2624 |
| * | <i>t,el</i> | ¹² C | DA | 3CPRFUD | 5.2+06 | 1.2+07 | Jour | NIM/B,483,1 | 20 | Yiming Duan+ | S0233 |
| * | ¹³ C,fus | | CS | 3CPRBJG | 4.4+06 | 5.7+06 | Jour | CNPR,34,705 | 17 | Chen Zhijun+ | S0255 |
| * | ¹³ C, <i>p</i> | ²⁴ Na | CS | 3CPRBJG | 4.4+06 | 5.7+06 | Jour | CNPR,34,705 | 17 | Chen Zhijun+ | S0255 |
| * | ¹⁵ N, ¹³ C | ¹⁴ N | DAP | 3POLWWA | 8.1+07 | 8.1+07 | Jour | YFE,21,295 | 20 | A.T.Rudchik+ | D5192 |
| | ²⁸ Si,el | ¹² C | DA | 3BZLUSP | 1.2+07 | 2.0+07 | Thes | BENJAMIM | 06 | E.A.Benjamim | D0992 |
| | ²⁸ Si,el | ¹² C | DA | 3BZLUSP | 1.3+07 | 2.2+07 | Thes | OLIVEIRAJR | 88 | J.M.Oliveirajr | D0993 |
| | ²⁸ Si,el | ¹² C | DA | 3BZLUSP | 1.8+07 | 1.8+07 | Thes | VILLARI | 82 | A.C.C.Villari | D0994 |

6 Carbon 13

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|----------------------------------|-----------------|------|-------------|--------|--------|-------------------------------|---------------------------|--------|-----------------|-----------------------|
| | | | | Min | Max | | | | | | |
| * | ¹¹ B, ¹² B | ¹² C | DAP | 3POLWWA | 4.5+07 | 4.5+07 | Jour | YFE,21,21 | 20 | S.Yu.Mezhevych+ | D5189 |
| * | ¹⁵ N,el | ¹³ C | DA | 3POLWWA | 8.4+07 | 8.4+07 | Jour | YFE,22,10 | 21 | A.T.Rudchik+ | D5193 |
| * | ¹⁵ N,inel | ¹³ C | DAP | 3POLWWA | 8.4+07 | 8.4+07 | Jour | YFE,22,10 | 21 | A.T.Rudchik+ | D5193 |

6 Carbon 14

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|----------------------------------|-----------------|------|-------------|--------|--------|-------------------------------|--------------------------------|--------|-----------------|-----------------------|
| | | | | Min | Max | | | | | | |
| | <i>n,γ</i> | ¹⁵ C | ? | 2GERKFK | Maxwl | | Jour | PR/C,77,015804 | 08 | R.Reifarth+ | 22995 |
| | <i>n,γ</i> | ¹⁵ C | ? | 2GERKFK | Maxwl | | Jour | AJ,387,258 | 92 | H.Beer+ | 23252 |
| * | ¹¹ B, ¹⁰ B | ¹⁵ C | DAP | 3POLWWA | 4.5+07 | 4.5+07 | Jour | APP/B,52,109 | 21 | S.Yu.Mezhevych+ | D5191 |

8 Oxygen 16

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------------------------------|-----------------|--------|---------|-------------|--------|------|-------------------------------|------|---------------|--------|
| | | | | Min | Max | | | | | |
| * $\gamma, p+X$ | ^3H | CS | 4UKRKFT | | 1.3+08 | Jour | VAT/I,,(3/133),68 | 21 | S.N.Afanasiev | G4091 |
| * d, p | ^{17}O | DAP | 3IRNNRT | 5.9+05 | 2.0+06 | Jour | NIM/B,482,11 | 20 | A.Jokar+ | D0990 |
| * d, p | ^{17}O | TTD | 3IRNNRT | 9.0+05 | 2.0+06 | Jour | NIM/B,482,11 | 20 | A.Jokar+ | D0990 |
| * $^{18}\text{O}, ^{15}\text{N}$ | ^{19}F | DAP | 2ITYLNS | 2.8+08 | 2.8+08 | Jour | PR/C,104,034617 | 21 | O.Sgouros+ | D8040 |

8 Oxygen 17

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------|-----------------|--------|---------|-------------|--------|------|-------------------------------|------|----------|--------|
| | | | | Min | Max | | | | | |
| p, γ | ^{18}F | CSP | 1USACAL | 1.4+06 | 1.6+06 | Jour | NP/A,250,295 | 75 | C.Rolfs+ | C2616 |

8 Oxygen 18

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|-----------------|--------|---------|-------------|--------|------|-------------------------------|------|----------|--------|
| | | | | Min | Max | | | | | |
| * d, n | ^{19}F | DAP | 3IRNNRT | 5.9+05 | 2.0+06 | Jour | NIM/B,482,11 | 20 | A.Jokar+ | D0990 |
| * d, n | ^{19}F | TTD | 3IRNNRT | 9.0+05 | 2.0+06 | Jour | NIM/B,482,11 | 20 | A.Jokar+ | D0990 |
| * d, p | ^{19}O | DAP | 3IRNNRT | 5.9+05 | 2.0+06 | Jour | NIM/B,482,11 | 20 | A.Jokar+ | D0990 |
| * d, p | ^{19}O | TTD | 3IRNNRT | 9.0+05 | 2.0+06 | Jour | NIM/B,482,11 | 20 | A.Jokar+ | D0990 |

9 Fluorine 19

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------|-----------------|--------|---------|-------------|-----|------|-------------------------------|------|--------------|--------|
| | | | | Min | Max | | | | | |
| n, γ | ^{20}F | CS | 2GERKFK | Maxwl | | Jour | PR/C,75,035801 | 07 | E.Uberseder+ | 22968 |
| n, γ | ^{20}F | ? | 2GERKFK | | | Jour | PR/C,75,035801 | 07 | E.Uberseder+ | 22968 |

10 Neon 20

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|---------|-------------|--------|------|-------------------------------|------|-----------------|--------|
| | | | | Min | Max | | | | | |
| p, x | Many | CS | 1USAMSU | 3.0+07 | 4.0+07 | Jour | PR/C,10,1605 | 74 | L.M.Panggabean+ | C2667 |
| p, x | Many | DA | 1USAMSU | 4.0+07 | 4.0+07 | Jour | PR/C,10,1605 | 74 | L.M.Panggabean+ | C2667 |

10 Neon 22

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------|------------------|--------|---------|-------------|-----|------|-------------------------------|------|---------|--------|
| | | | | Min | Max | | | | | |
| n, γ | ^{23}Ne | CS | 2GERKFK | Maxwl | | Jour | NP/A,705,239 | 02 | H.Beer+ | 22808 |

11 Sodium 23

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|------------|------------------|------|-------------|-----|------|--------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| * | n,γ | ^{24}Na | CS | 2GERKFK | | Jour | PR/C,95,025803 | 17 | E.Uberseder+ | 23337 |
| * | n,γ | ^{24}Na | ? | 2GERKFK | | Jour | PR/C,95,025803 | 17 | E.Uberseder+ | 23337 |

12 Magnesium 24

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|----------------------|------------------|------|-------------|---------------|------|---------------------------------|------|-----------|-----------------------|
| | | | | Min | Max | | | | | |
| * | α,inel | ^{24}Mg | DAE | 3SAFITH | 2.0+08 2.0+08 | Jour | PR/C,103,044315 | 21 | P.Adsley+ | D1003 |
| * | α,inel | ^{24}Mg | DAP | 3SAFITH | 2.0+08 2.0+08 | Jour | PR/C,103,044315 | 21 | P.Adsley+ | D1003 |

13 Aluminium 27

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|-------------------------------|------------------|------|-------------|---------------|------|---------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| * | γ,x | ^{24}Na | CS | 4UKRKFT | | Jour | EPJ/A,57,207 | 21 | A.N.Vodin+ | G4095 |
| * | $^{10}\text{B},x$ | ^{28}Si | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{29}Si | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{31}P | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{32}P | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{32}S | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{33}S | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{34}S | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{35}S | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{34}Cl | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{35}Cl | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{36}Cl | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{10}\text{B},x$ | ^{35}Ar | CS | 3MEXINI | 1.2+07 1.6+07 | Jour | PR/C,104,044621 | 21 | V.R.Sharma+ | D0997 |
| * | $^{18}\text{O},^{19}\text{F}$ | ^{26}Mg | DAP | 2ITYLNS | 2.8+08 2.8+08 | Jour | PR/C,104,034617 | 21 | O.Sgouros+ | D8040 |

14 Silicon 28

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------------------------|------------------|------|-------------|---------------|------|-------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| | p,α | ^{25}Al | CSP | 1USAFSU | 1.6+07 1.8+07 | Jour | NP/A,232,176 | 74 | G.D.Gunn+ | C2622 |
| | p,α | ^{25}Al | DAP | 1USAFSU | 1.6+07 1.8+07 | Jour | NP/A,232,176 | 74 | G.D.Gunn+ | C2622 |
| | p,n | ^{28}P | CS | 1USAFSU | 1.6+07 1.8+07 | Jour | NP/A,232,176 | 74 | G.D.Gunn+ | C2622 |
| | $^{12}\text{C},\text{el}$ | ^{28}Si | DA | 3BZLUSP | 2.2+07 2.2+07 | Thes | BENJAMIM | 06 | E.A.Benjamim | D0992 |

16 Sulphur 32

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|----------------|--------|------|-------------|---------------|------|-------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| | n,tot | | CS | 1USAORL | 2.5+05 1.1+06 | Jour | PR/C,21,545 | 80 | J.Halperin+ | 10455 |

16 Sulphur 33

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|-----|------|-------------------------------|------|-----------|-----------------------|
| | | | | Min | Max | | | | | |
| n,α | ^{30}Si | CS | 2GERKFK | Maxwl | | Jour | PR/C,51,379 | 95 | H.Schatz+ | 22749 |
| n,α | ^{30}Si | ? | 2GERKFK | | | Jour | PR/C,51,379 | 95 | H.Schatz+ | 22749 |

16 Sulphur 36

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-----------------|--------|---------|-------------|--------|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{37}S | CS | 2GERKFK | 1.5+05 | 2.2+05 | Jour | PR/C,52,3442 | 95 | H.Beer+ | 22445 |
| n,γ | ^{37}S | ? | 2GERKFK | | | Jour | PR/C,52,3442 | 95 | H.Beer+ | 22445 |

17 Chlorine 36

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-----------------|--------|---------|-------------|-----|------|-------------------------------|------|-----------|-----------------------|
| | | | | Min | Max | | | | | |
| n,α | ^{33}P | CS | 2GERKFK | Maxwl | | Jour | PR/C,51,379 | 95 | H.Schatz+ | 22749 |
| n,p | ^{36}S | CS | 2GERKFK | Maxwl | | Jour | PR/C,51,379 | 95 | H.Schatz+ | 22749 |

18 Argon 40

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{41}Ar | CS | 2GERKFK | Maxwl | | Jour | NP/A,705,239 | 02 | H.Beer+ | 22808 |
| n,γ | ^{41}Ar | ? | 2GERKFK | 3.0+04 | 2.2+05 | Jour | NP/A,705,239 | 02 | H.Beer+ | 22808 |

19 Potassium 41

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|--------------|-----------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| * n,γ | ^{42}K | CS | 2GERKFK | | | Jour | PR/C,93,055807 | 16 | M.Heil+ | 23306 |

21 Scandium 45

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|--------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| * n,γ | ^{46}Sc | CS | 2GERKFK | | | Jour | PR/C,93,055807 | 16 | M.Heil+ | 23306 |

22 Titanium 46

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------------------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| $^3\text{He}, ^6\text{He}$ | ^{43}Ti | DAP | 1USAMSU | 7.0+07 | 7.0+07 | Jour | PR/C,12,51 | 75 | D.Mueller+ | C2668 |

22 Titanium 48

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------------------------------|------------------|--------|---------|-------------|--------|------|---------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| * $^{18}\text{O}, ^{19}\text{F}$ | ^{47}Sc | DAP | 2ITYLNS | 2.8+08 | 2.8+08 | Jour | PR/C,104,034617 | 21 | O.Sgouros+ | D8040 |

23 Vanadium 51

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|-----------|-----------------------|
| | | | | Min | Max | | | | | |
| p, el | ^{51}V | DA | 1USAKTY | 2.2+06 | 2.4+06 | Jour | PR/C,5,1562 | 72 | J.J.Egan+ | C2662 |
| p, n | ^{51}Cr | CS | 1USAKTY | 2.3+06 | 2.4+06 | Jour | PR/C,5,1562 | 72 | J.J.Egan+ | C2662 |
| p, n | ^{51}Cr | DA | 1USAKTY | 1.6+06 | 2.5+06 | Jour | PR/C,5,1562 | 72 | J.J.Egan+ | C2662 |
| p, n | ^{51}Cr | DAP | 1USAKTY | 2.7+06 | 5.0+06 | Jour | PR/C,5,1562 | 72 | J.J.Egan+ | C2662 |

24 Chromium 50

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------------------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| $p, ^6\text{He}$ | ^{45}V | DAP | 1USAMSU | 4.6+07 | 4.6+07 | Jour | PR/C,12,51 | 75 | D.Mueller+ | C2668 |
| $^3\text{He}, ^6\text{He}$ | ^{47}Cr | DAP | 1USAMSU | 7.0+07 | 7.0+07 | Jour | PR/C,12,51 | 75 | D.Mueller+ | C2668 |

26 Iron

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|---------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|----------|-----------------------|
| | | | | Min | Max | | | | | |
| * α, x | ^{52}Mn | CS | 3KORKRM | 3.4+07 | 4.5+07 | Jour | EPJ/A,54,12 | 18 | K.S.Kim+ | D7029 |
| * α, x | ^{54}Mn | CS | 3KORKRM | 3.2+07 | 4.5+07 | Jour | EPJ/A,54,12 | 18 | K.S.Kim+ | D7029 |
| * α, x | ^{55}Co | CS | 3KORKRM | 3.1+07 | 4.5+07 | Jour | EPJ/A,54,12 | 18 | K.S.Kim+ | D7029 |
| * α, x | ^{56}Co | CS | 3KORKRM | 1.5+07 | 4.5+07 | Jour | EPJ/A,54,12 | 18 | K.S.Kim+ | D7029 |
| * α, x | ^{57}Co | CS | 3KORKRM | 9.1+06 | 4.5+07 | Jour | EPJ/A,54,12 | 18 | K.S.Kim+ | D7029 |
| * α, x | ^{58}Co | CS | 3KORKRM | 1.5+07 | 4.5+07 | Jour | EPJ/A,54,12 | 18 | K.S.Kim+ | D7029 |
| * α, x | ^{57}Ni | CS | 3KORKRM | 4.1+06 | 4.5+07 | Jour | EPJ/A,54,12 | 18 | K.S.Kim+ | D7029 |

26 Iron 54

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------------------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| $p, ^6\text{He}$ | ^{49}Mn | DAP | 1USAMSU | 4.6+07 | 4.6+07 | Jour | PR/C,12,51 | 75 | D.Mueller+ | C2668 |
| $^3\text{He}, ^6\text{He}$ | ^{51}Fe | DAP | 1USAMSU | 7.0+07 | 7.0+07 | Jour | PR/C,12,51 | 75 | D.Mueller+ | C2668 |

28 Nickel

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|---------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| * α, x | ^{60}Cu | CS | 3KORKRM | 1.8+07 | 4.0+07 | Jour | RCA,106,87 | 18 | M.S.Uddin+ | D7028 |
| * α, x | ^{61}Cu | CS | 3KORKRM | 4.8+06 | 4.3+07 | Jour | RCA,106,87 | 18 | M.S.Uddin+ | D7028 |
| * α, x | ^{67}Cu | CS | 3KORKRM | 1.1+07 | 4.3+07 | Jour | RCA,106,87 | 18 | M.S.Uddin+ | D7028 |

28 Nickel 58

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------------------------|------------------|--------|---------|-------------|--------|------|---------------------------------|------|---------------|-----------------------|
| | | | | Min | Max | | | | | |
| $p, ^6\text{He}$ | ^{53}Co | DAP | 1USAMSU | 4.6+07 | 4.6+07 | Jour | PR/C,12,51 | 75 | D.Mueller+ | C2668 |
| $^3\text{He}, ^6\text{He}$ | ^{55}Ni | DAP | 1USAMSU | 7.0+07 | 7.0+07 | Jour | PR/C,12,51 | 75 | D.Mueller+ | C2668 |
| * $^8\text{Li}, ^7\text{Li}$ | ^{59}Ni | DAE | 3BZLUSP | 2.4+07 | 3.0+07 | Jour | PR/C,103,064601 | 21 | O.C.B.Santos+ | D1004 |
| * $^8\text{Li}, \text{el}$ | ^{58}Ni | DA | 3BZLUSP | 2.4+07 | 3.0+07 | Jour | PR/C,103,064601 | 21 | O.C.B.Santos+ | D1004 |
| * $^8\text{Li}, x$ | ^7Li | DA | 3BZLUSP | 2.4+07 | 3.0+07 | Jour | PR/C,103,064601 | 21 | O.C.B.Santos+ | D1004 |

28 Nickel 62

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n, γ | ^{63}Ni | CS | 2GERKFK | | | Jour | NIM/B,268,1283 | 10 | I.Dillmann+ | 23064 |
| n, γ | ^{63}Ni | ? | 2GERKFK | | | Jour | NIM/B,268,1283 | 10 | I.Dillmann+ | 23064 |

29 Copper 63

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|---------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| * n, γ | ^{64}Cu | CS | 2ZZZGEL | | | Jour | PR/C,95,015808 | 17 | M.Weigand+ | 23326 |
| * n, γ | ^{64}Cu | ? | 2ZZZGEL | | | Jour | PR/C,95,015808 | 17 | M.Weigand+ | 23326 |

30 Zinc 64

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|---------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| * n, γ | ^{65}Zn | CS | 2GERKFK | | | Jour | PR/C,85,035802 | 12 | R.Reifarth+ | 23166 |
| * n, γ | ^{65}Zn | ? | 2GERKFK | | | Jour | PR/C,85,035802 | 12 | R.Reifarth+ | 23166 |

30 Zinc 68

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | | |
|---|------------|------------------|----|---------|--|------|--------------------------------|----|-------------|-----------------------|
| * | <i>n,γ</i> | ⁶⁹ Zn | CS | 2GERKFK | | Jour | PR/C,85,035802 | 12 | R.Reifarth+ | 23166 |
| * | <i>n,γ</i> | ⁶⁹ Zn | ? | 2GERKFK | | Jour | PR/C,85,035802 | 12 | R.Reifarth+ | 23166 |

30 Zinc 70

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|------------|------------------|------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| * | <i>n,γ</i> | ⁷¹ Zn | CS | 2GERKFK | | Jour | PR/C,85,035802 | 12 | R.Reifarth+ | 23166 |
| * | <i>n,γ</i> | ⁷¹ Zn | ? | 2GERKFK | | Jour | PR/C,85,035802 | 12 | R.Reifarth+ | 23166 |

31 Gallium 71

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| <i>p,n</i> | ⁷¹ Ge | DAE | 1USAINU | 1.2+08 | 1.2+08 | Jour | PRL,55,1051 | 85 | D.Krofcheck+ | C2661 |

32 Germanium

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| <i>p,x</i> | ⁶⁰ Co | CS | 1USABRK | 8.0+08 | 8.0+08 | Jour | NP/BS,143,508 | 05 | E.B.Norman+ | C2663 |

32 Germanium 76

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| <i>n,γ</i> | ⁷⁷ Ge | CS | 2GERKFK | Maxwl | | Jour | JP/G,35,014022 | 08 | J.Marganec+ | 23043 |
| <i>n,γ</i> | ⁷⁷ Ge | ? | 2GERKFK | | | Jour | JP/G,35,014022 | 08 | J.Marganec+ | 23043 |

34 Selenium 74

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| <i>n,γ</i> | ⁷⁵ Se | CS | 2GERKFK | Maxwl | | Jour | PR/C,73,015803 | 06 | I.Dillmann+ | 22892 |
| <i>n,γ</i> | ⁷⁵ Se | ? | 2GERKFK | Maxwl | | Jour | PR/C,73,015803 | 06 | I.Dillmann+ | 22892 |

34 Selenium 78

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|-----|------|-------------------------------|------|----------|-----------------------|
| | | | | Min | Max | | | | | |
| <i>n,γ</i> | ⁷⁹ Se | ? | 2GERKFK | | | Jour | NIM/B,259,683 | 07 | G.Rugel+ | 22971 |

35 Bromine 79

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{80}Br | CS | 2GERKFK | Maxwl | | Jour | PR/C,78,025802 | 08 | M.Heil+ | 23035 |
| n,γ | ^{80}Br | ? | 2GERKFK | | | Jour | PR/C,78,025802 | 08 | M.Heil+ | 23035 |

35 Bromine 81

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{82}Br | CS | 2GERKFK | Maxwl | | Jour | PR/C,78,025802 | 08 | M.Heil+ | 23035 |
| n,γ | ^{82}Br | ? | 2GERKFK | | | Jour | PR/C,78,025802 | 08 | M.Heil+ | 23035 |

36 Krypton 84

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{85}Kr | ? | 2GERKFK | 3.0+04 | 2.2+05 | Jour | NP/A,705,239 | 02 | H.Beer+ | 22808 |

36 Krypton 86

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|-----|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{87}Kr | CS | 2GERKFK | Maxwl | | Jour | NP/A,705,239 | 02 | H.Beer+ | 22808 |

37 Rubidium 85

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{86}Rb | CS | 2GERKFK | Maxwl | | Jour | PR/C,78,025802 | 08 | M.Heil+ | 23035 |
| n,γ | ^{86}Rb | ? | 2GERKFK | | | Jour | PR/C,78,025802 | 08 | M.Heil+ | 23035 |

37 Rubidium 87

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{88}Rb | CS | 2GERKFK | Maxwl | | Jour | PR/C,78,025802 | 08 | M.Heil+ | 23035 |
| n,γ | ^{88}Rb | ? | 2GERKFK | | | Jour | PR/C,78,025802 | 08 | M.Heil+ | 23035 |

38 Strontium 84

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | | |
|------------|------------------|----|---------|-------|--|------|--------------------------------|----|-------------|-----------------------|
| n,γ | ^{85}Sr | CS | 2GERKFK | Maxwl | | Jour | PR/C,73,015803 | 06 | I.Dillmann+ | 22892 |
| n,γ | ^{85}Sr | ? | 2GERKFK | Maxwl | | Jour | PR/C,73,015803 | 06 | I.Dillmann+ | 22892 |

39 Yttrium 89

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation | Date | Author | Data # |
|--------------------|------------------|--------|---------|-------------|--------|------|---------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| * $^9\text{Be},4n$ | ^{94}Tc | CS | 3CPRIMP | 4.6+07 | 5.0+07 | Jour | PR/C,102,054607 | 20 | G.S.Li+ | S0234 |

40 Zirconium

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation | Date | Author | Data # |
|----------|------------------|--------|---------|-------------|--------|------|---------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| * d,x | ^{87}Y | CS | 3CZRUJF | 1.3+07 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{88}Y | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{90}Y | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{91}Y | CS | 3CZRUJF | 8.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{94}Y | CS | 3CZRUJF | 4.3+06 | 1.9+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{89}Zr | CS | 3CZRUJF | 9.9+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{95}Zr | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{97}Zr | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{90}Nb | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{91}Nb | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{92}Nb | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{94}Nb | CS | 3CZRUJF | 6.5+06 | 1.8+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{95}Nb | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{96}Nb | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |
| * d,x | ^{97}Nb | CS | 3CZRUJF | 4.3+06 | 2.0+07 | Jour | PR/C,104,044615 | 21 | E.Simeckova+ | D0996 |

41 Niobium 93

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation | Date | Author | Data # |
|---------------|------------------|--------|---------|-------------|--------|------|------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| * $\gamma,2n$ | ^{91}Nb | CS | 4UKRKFT | | 9.3+07 | Jour | NP/A,1014,122248 | 21 | A.N.Vodin+ | G4093 |
| * $\gamma,3n$ | ^{90}Nb | CS | 4UKRKFT | | 9.3+07 | Jour | NP/A,1014,122248 | 21 | A.N.Vodin+ | G4093 |
| * $\gamma,4n$ | ^{89}Nb | CS | 4UKRKFT | | 9.3+07 | Jour | NP/A,1014,122248 | 21 | A.N.Vodin+ | G4093 |
| * $\gamma,5n$ | ^{88}Nb | CS | 4UKRKFT | | 9.3+07 | Jour | NP/A,1014,122248 | 21 | A.N.Vodin+ | G4093 |
| * γ,n | ^{92}Nb | CS | 4UKRKFT | | 9.3+07 | Jour | NP/A,1014,122248 | 21 | A.N.Vodin+ | G4093 |
| * p,x | ^{87}Y | CS | 3KORKRM | 3.8+07 | 4.2+07 | Jour | JRN,317,1021 | 18 | K.S.Kim+ | D7030 |
| * p,x | ^{88}Y | CS | 3KORKRM | 2.7+07 | 4.2+07 | Jour | JRN,317,1021 | 18 | K.S.Kim+ | D7030 |
| * p,x | ^{88}Zr | CS | 3KORKRM | 2.5+07 | 4.2+07 | Jour | JRN,317,1021 | 18 | K.S.Kim+ | D7030 |
| * p,x | ^{89}Zr | CS | 3KORKRM | 7.8+06 | 4.2+07 | Jour | JRN,317,1021 | 18 | K.S.Kim+ | D7030 |
| * p,x | ^{90}Nb | CS | 3KORKRM | 2.5+07 | 4.2+07 | Jour | JRN,317,1021 | 18 | K.S.Kim+ | D7030 |
| * p,x | ^{91}Nb | CS | 3KORKRM | 2.3+07 | 4.2+07 | Jour | JRN,317,1021 | 18 | K.S.Kim+ | D7030 |
| * p,x | ^{92}Nb | CS | 3KORKRM | 2.7+06 | 4.2+07 | Jour | JRN,317,1021 | 18 | K.S.Kim+ | D7030 |
| * p,x | ^{90}Mo | CS | 3KORKRM | 3.3+07 | 4.2+07 | Jour | JRN,317,1021 | 18 | K.S.Kim+ | D7030 |
| * p,x | ^{93}Mo | CS | 3KORKRM | 2.7+06 | 4.2+07 | Jour | JRN,317,1021 | 18 | K.S.Kim+ | D7030 |

42 Molybdenum

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|--------------|------------------|--------|---------|-------------|--------|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| <i>p,x</i> | ⁶⁰ Co | CS | 1USABRK | 8.0+08 | 1.8+09 | Jour | NP/BS,143,508 | 05 | E.B.Norman+ | C2663 |
| * <i>p,x</i> | ⁹³ Tc | CS | 3POLIFJ | 3.3+06 | 1.7+07 | Jour | RPC,190,109774 | 22 | A.A.Ahmed+ | D1007 |
| * <i>p,x</i> | ⁹⁴ Tc | CS | 3POLIFJ | 3.3+06 | 1.7+07 | Jour | RPC,190,109774 | 22 | A.A.Ahmed+ | D1007 |
| * <i>p,x</i> | ⁹⁵ Tc | CS | 3POLIFJ | 3.3+06 | 1.7+07 | Jour | RPC,190,109774 | 22 | A.A.Ahmed+ | D1007 |
| * <i>p,x</i> | ⁹⁶ Tc | CS | 3POLIFJ | 3.3+06 | 1.7+07 | Jour | RPC,190,109774 | 22 | A.A.Ahmed+ | D1007 |

42 Molybdenum 92

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|---------------|------------------|--------|---------|-------------|--------|------|-----------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| * $\gamma,2n$ | ⁹⁰ Mo | CS | 4UKRKFT | | 8.1+07 | Jour | VAT/I,,(3/133),98 | 21 | A.N.Vodin+ | G4092 |
| * γ,x | ⁹⁰ Nb | CS | 4UKRKFT | | 8.1+07 | Jour | VAT/I,,(3/133),98 | 21 | A.N.Vodin+ | G4092 |

42 Molybdenum 98

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|--------------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| <i>p,n</i> | ⁹⁸ Tc | DAP | 1USAINU | 1.2+08 | 1.2+08 | Jour | PRL,54,2325 | 85 | J.Rapaport+ | C2626 |
| <i>p,x+n</i> | inclusive | DAE | 1USAINU | 1.2+08 | 1.2+08 | Jour | PRL,54,2325 | 85 | J.Rapaport+ | C2626 |

42 Molybdenum 100

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|---------------|------------------|--------|---------|-------------|--------|------|--------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| * <i>p,2n</i> | ⁹⁹ Tc | CS | 3POLIFJ | 3.3+06 | 1.7+07 | Jour | RPC,190,109774 | 22 | A.A.Ahmed+ | D1007 |
| * <i>p,x</i> | ⁹⁹ Mo | CS | 3POLIFJ | 3.3+06 | 1.7+07 | Jour | RPC,190,109774 | 22 | A.A.Ahmed+ | D1007 |

44 Ruthenium 96

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------------------------|------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| <i>n,γ</i> | ⁹⁷ Ru | CS | 2GERKFK | Maxwl | | Jour | PR/C,66,015803 | 02 | W.Rapp+ | 22685 |
| <i>n,γ</i> | ⁹⁷ Ru | ? | 2GERKFK | Maxwl | | Jour | PR/C,66,015803 | 02 | W.Rapp+ | 22685 |

44 Ruthenium 102

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------------------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| <i>n,γ</i> | ¹⁰³ Ru | CS | 2GERKFK | Maxwl | | Jour | PR/C,66,015803 | 02 | W.Rapp+ | 22685 |
| <i>n,γ</i> | ¹⁰³ Ru | ? | 2GERKFK | Maxwl | | Jour | PR/C,66,015803 | 02 | W.Rapp+ | 22685 |

44 Ruthenium 104

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{105}Ru | CS | 2GERKFK | Maxwl | | Jour | PR/C,66,015803 | 02 | W.Rapp+ | 22685 |
| n,γ | ^{105}Ru | ? | 2GERKFK | Maxwl | | Jour | PR/C,66,015803 | 02 | W.Rapp+ | 22685 |

46 Palladium

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|--------------|-------------------|--------|---------|-------------|--------|------|-------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| * γ,x | ^{109}Pd | CS | 3KORPUE | | 7.0+07 | Jour | JRN,311,1559 | 17 | T.H.Nguyen+ | G3138 |

46 Palladium 102

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{103}Pd | CS | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |
| n,γ | ^{103}Pd | ? | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |

49 Indium 115

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|-------------------|--------|---------|-------------|--------|------|--------------------------------|------|-----------------|-----------------------|
| | | | | Min | Max | | | | | |
| $n,0$ | | RP | 1USALAS | | | Jour | PR/C,61,045501 | 00 | S.L.Stephenson+ | 14712 |
| p,n | ^{115}Sn | DAP | 1USAINU | 1.2+08 | 1.2+08 | Jour | PRL,54,2325 | 85 | J.Rapaport+ | C2626 |
| $p,x+n$ | inclusive | DAE | 1USAINU | 1.2+08 | 1.2+08 | Jour | PRL,54,2325 | 85 | J.Rapaport+ | C2626 |

50 Tin 116

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------------------------|-------------------|--------|---------|-------------|--------|------|-------------------------------|------|-----------|-----------------------|
| | | | | Min | Max | | | | | |
| $^{16}\text{O},^{14}\text{C}$ | ^{118}Te | DAP | 2FR SAC | 6.4+07 | 6.4+07 | Jour | NP/A,289,187 | 77 | A.Lepine+ | D0991 |
| $^{16}\text{O},^{15}\text{N}$ | ^{117}Sb | DAP | 2FR SAC | 6.4+07 | 6.4+07 | Jour | NP/A,289,187 | 77 | A.Lepine+ | D0991 |
| $^{16}\text{O},\text{el}$ | ^{116}Sn | DA | 2FR SAC | 6.4+07 | 6.4+07 | Jour | NP/A,289,187 | 77 | A.Lepine+ | D0991 |
| $^{16}\text{O},\text{inel}$ | ^{116}Sn | DAP | 2FR SAC | 6.4+07 | 6.4+07 | Jour | NP/A,289,187 | 77 | A.Lepine+ | D0991 |

50 Tin 120

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------------------------------|-------------------|--------|---------|-------------|--------|------|---------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| * $^{10}\text{B},^6\text{Li}$ | ^{124}Te | DA | 3BZLUSP | 4.0+07 | 4.0+07 | Jour | PR/C,103,034616 | 21 | L.R.Gasques+ | D1002 |
| * $^{10}\text{B},^7\text{Li}$ | ^{123}Te | DA | 3BZLUSP | 4.0+07 | 4.0+07 | Jour | PR/C,103,034616 | 21 | L.R.Gasques+ | D1002 |
| * $^{10}\text{B},^{10}\text{Be}$ | ^{120}Sb | DA | 3BZLUSP | 4.0+07 | 4.0+07 | Jour | PR/C,103,034616 | 21 | L.R.Gasques+ | D1002 |
| * $^{10}\text{B},^{11}\text{B}$ | ^{119}Sn | DAP | 3BZLUSP | 4.0+07 | 4.0+07 | Jour | PR/C,103,034616 | 21 | L.R.Gasques+ | D1002 |

| | | | | | | | | | | | |
|---|--------------------------------|-------------------|-----|---------|--------|--------|------|---------------------------------|----|--------------|-----------------------|
| * | $^{10}\text{B}, ^{12}\text{C}$ | ^{118}In | DA | 3BZLUSP | 4.0+07 | 4.0+07 | Jour | PR/C,103,034616 | 21 | L.R.Gasques+ | D1002 |
| * | $^{10}\text{B}, \text{el}$ | ^{120}Sn | DA | 3BZLUSP | 4.0+07 | 4.0+07 | Jour | PR/C,103,034616 | 21 | L.R.Gasques+ | D1002 |
| * | $^{10}\text{B}, \text{inel}$ | ^{120}Sn | DAP | 3BZLUSP | 4.0+07 | 4.0+07 | Jour | PR/C,103,034616 | 21 | L.R.Gasques+ | D1002 |
| * | $^{10}\text{B}, \text{x}$ | ^9Be | DA | 3BZLUSP | 4.0+07 | 4.0+07 | Jour | PR/C,103,034616 | 21 | L.R.Gasques+ | D1002 |

52 Tellurium

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|------------------|--------|---------|-------------|--------|------|-------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| p, x | ^{60}Co | CS | 1USABRK | 8.0+08 | 1.8+09 | Jour | NP/BS,143,508 | 05 | E.B.Norman+ | C2663 |

52 Tellurium 120

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n, γ | ^{121}Te | CS | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |
| n, γ | ^{121}Te | ? | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |

54 Xenon 132

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------|-------------------|--------|---------|-------------|-----|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n, γ | ^{133}Xe | CS | 2GERKFK | Maxwl | | Jour | ASP,97,95 | 83 | H.Beer+ | 23220 |

55 Cesium 135

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------|-------------------|--------|---------|-------------|--------|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n, γ | ^{136}Cs | ? | 2GERKFK | 3.0+04 | 3.0+04 | Jour | PR/C,69,025803 | 04 | N.Patronis+ | 22846 |
| n, γ | ^{136}Cs | ? | 2GERKFK | Maxwl | | Jour | NP/A,621,247 | 97 | S.Jaag+ | 22448 |

56 Barium 130

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n, γ | ^{131}Ba | CS | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |
| n, γ | ^{131}Ba | ? | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |

56 Barium 132

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n, γ | ^{133}Ba | CS | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |
| n, γ | ^{133}Ba | ? | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |

57 Lanthanum 139

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{140}La | CS | 2GERKFK | Maxwl | | Jour | PR/C,68,035801 | 03 | S.O'Brien+ | 22879 |
| n,γ | ^{140}La | ? | 2GERKFK | | | Jour | PR/C,68,035801 | 03 | S.O'Brien+ | 22879 |

58 Cerium 136

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|-------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{137}Ce | CS | 2GERKFK | Maxwl | | Jour | PR/C,53,1397 | 96 | F.Kappeler+ | 23420 |

58 Cerium 138

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|-------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{139}Ce | CS | 2GERKFK | Maxwl | | Jour | PR/C,53,1397 | 96 | F.Kappeler+ | 23420 |

58 Cerium 140

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|-------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{141}Ce | CS | 2GERKFK | Maxwl | | Jour | PR/C,53,1397 | 96 | F.Kappeler+ | 23420 |

58 Cerium 142

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|-------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{143}Ce | CS | 2GERKFK | Maxwl | | Jour | PR/C,53,1397 | 96 | F.Kappeler+ | 23420 |

61 Promethium 147

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------------|-------------------|--------|---------|-------------|--------|------|-------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{148}Pm | CS | 2GERKFK | Maxwl | | Jour | AJ,582,1251 | 03 | R.Reifarh+ | 22829 |
| n,γ | ^{148}Pm | ? | 2GERKFK | | | Jour | AJ,582,1251 | 03 | R.Reifarh+ | 22829 |
| n,γ | ^{148}Pm | ? | 2GERKFK | Maxwl | | Jour | NP/A,688,487C | 01 | C.Arlandini+ | 22677 |
| n,tot | | CS | 1USAKAP | 6.8-03 | 1.7+00 | Jour | NSE,52,310 | 73 | G.J.Kirouac+ | 10258 |

61 Promethium 148

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|---------|--------|---------|-------------|--------|------|-------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | | CS | 1USAKAP | 2.5-02 | 2.5-02 | Jour | NSE,52,310 | 73 | G.J.Kirouac+ | 10258 |

62 Samarium 152

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{153}Sm | CS | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |
| n,γ | ^{153}Sm | ? | 2GERKFK | Maxwl | | Jour | AJ,278,388 | 84 | H.Beer+ | 22603 |
| n,γ | ^{153}Sm | ? | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |

62 Samarium 154

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{155}Sm | CS | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |
| n,γ | ^{155}Sm | ? | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |

63 Europium 151

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------------|-------------------|--------|---------|-------------|--------|------|--------------------------------|--------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{152}Eu | CS | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |
| n,γ | ^{152}Eu | ? | 2GERKFK | Maxwl | | Jour | AJ,278,388 | 84 | H.Beer+ | 22603 |
| n,γ | ^{152}Eu | ? | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |
| n,tot | | ? | 1USALAS | 2.5+01 | 1.5+03 | Conf | 68WASH,2,837 | Mar 68 | M.V.Harlow+ | 10324 |

63 Europium 153

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|--------|------|--------------------------------|--------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{154}Eu | CS | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |
| n,γ | ^{154}Eu | ? | 1USALAS | 8.0+02 | 1.2+03 | Conf | 68WASH,2,837 | Mar 68 | M.V.Harlow+ | 10324 |
| n,γ | ^{154}Eu | ? | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |

63 Europium 155

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{156}Eu | CS | 2GERKFK | Maxwl | | Jour | PR/C,51,3465 | 95 | S.Jaag+ | 22459 |
| n,γ | ^{156}Eu | ? | 2GERKFK | Maxwl | | Jour | PR/C,51,3465 | 95 | S.Jaag+ | 22459 |

64 Gadolinium 152

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{153}Gd | ? | 2GERKFK | Maxwl | | Jour | AJ,278,388 | 84 | H.Beer+ | 22603 |

64 Gadolinium 158

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{159}Gd | ? | 2GERKFK | Maxwl | | Jour | AJ,278,388 | 84 | H.Beer+ | 22603 |

64 Gadolinium 160

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|-------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{161}Gd | ? | 2GERKFK | Maxwl | | Jour | AJ,278,388 | 84 | H.Beer+ | 22603 |

66 Dysprosium 156

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|-------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{157}Dy | CS | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |
| n,γ | ^{157}Dy | ? | 2GERKFK | | | Jour | PR/C,81,015801 | 10 | I.Dillmann+ | 22939 |

68 Erbium 164

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{165}Er | CS | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |
| n,γ | ^{165}Er | ? | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |

68 Erbium 170

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|---------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{171}Er | CS | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |
| n,γ | ^{171}Er | ? | 2GERKFK | Maxwl | | Jour | PR/C,64,015801 | 01 | J.Best+ | 22670 |

69 Thulium 171

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | |
|------------|-------------------|---|---------|-------|------|-------------------------------|----|-------------|-----------------------|
| n,γ | ^{172}Tm | ? | 2GERKFK | Maxwl | Jour | NP/A,718,478C | 03 | R.Reifarth+ | 22841 |
|------------|-------------------|---|---------|-------|------|-------------------------------|----|-------------|-----------------------|

70 Ytterbium 168

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | | |
|------------|-------------------|----|---------|--|--|------|--------------------------------|----|--------------|-----------------------|
| n,γ | ^{169}Yb | CS | 2GERKFK | | | Jour | PR/C,82,035806 | 10 | J.Marganiec+ | 23094 |
|------------|-------------------|----|---------|--|--|------|--------------------------------|----|--------------|-----------------------|

70 Ytterbium 174

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | | | |
|---|------------|-------------------|----|---------|--|--------|------|--------------------------------|----|--------------|-----------------------|
| * | n,γ | ^{175}Yb | CS | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |
|---|------------|-------------------|----|---------|--|--------|------|--------------------------------|----|--------------|-----------------------|

| | | | | | | | | | | | |
|---|------------|-------------------|---|---------|--|--------|------|--------------------------------|----|--------------|-----------------------|
| * | n,γ | ^{175}Yb | ? | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |
|---|------------|-------------------|---|---------|--|--------|------|--------------------------------|----|--------------|-----------------------|

70 Ytterbium 176

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | | | |
|---|------------|-------------------|----|---------|--|--------|------|--------------------------------|----|--------------|-----------------------|
| * | n,γ | ^{177}Yb | CS | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |
|---|------------|-------------------|----|---------|--|--------|------|--------------------------------|----|--------------|-----------------------|

| | | | | | | | | | | | |
|---|------------|-------------------|---|---------|--|--------|------|--------------------------------|----|--------------|-----------------------|
| * | n,γ | ^{177}Yb | ? | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |
|---|------------|-------------------|---|---------|--|--------|------|--------------------------------|----|--------------|-----------------------|

72 Hafnium 174

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | | |
|------------|-------------------|----|---------|--|--|------|--------------------------------|----|----------------|-----------------------|
| n,γ | ^{175}Hf | CS | 2GERKFK | | | Jour | PR/C,75,015804 | 07 | C.Vockenhuber+ | 22963 |
|------------|-------------------|----|---------|--|--|------|--------------------------------|----|----------------|-----------------------|

| | | | | | | | | | | |
|------------|-------------------|---|---------|--|--|------|--------------------------------|----|----------------|-----------------------|
| n,γ | ^{175}Hf | ? | 2GERKFK | | | Jour | PR/C,75,015804 | 07 | C.Vockenhuber+ | 22963 |
|------------|-------------------|---|---------|--|--|------|--------------------------------|----|----------------|-----------------------|

72 Hafnium 180

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | | |
|------------|-------------------|----|---------|--|--|------|--------------------------------|----|----------------|-----------------------|
| n,γ | ^{181}Hf | CS | 2GERKFK | | | Jour | PR/C,75,015804 | 07 | C.Vockenhuber+ | 22963 |
|------------|-------------------|----|---------|--|--|------|--------------------------------|----|----------------|-----------------------|

| | | | | | | | | | | |
|------------|-------------------|---|---------|--|--|------|--------------------------------|----|----------------|-----------------------|
| n,γ | ^{181}Hf | ? | 2GERKFK | | | Jour | PR/C,75,015804 | 07 | C.Vockenhuber+ | 22963 |
|------------|-------------------|---|---------|--|--|------|--------------------------------|----|----------------|-----------------------|

72 Hafnium 182

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|------|-------------|-----|------|-------------------------------|------|--------|--------|
| | | | | Min | Max | | | | | |

| | | | | | | | | | | |
|------------|-------------------|----|---------|-------|--|------|--------------------------------|----|----------------|-----------------------|
| n,γ | ^{183}Hf | CS | 2GERKFK | Maxwl | | Jour | PR/C,75,015804 | 07 | C.Vockenhuber+ | 22963 |
|------------|-------------------|----|---------|-------|--|------|--------------------------------|----|----------------|-----------------------|

73 Tantalum 181

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|--------------|-------------------|------|-------------|--------|--------|-------------------------------|---------------------------------|--------|--------------|-----------------------|
| | | | | Min | Max | | | | | | |
| * | $\gamma, 2n$ | ^{179}Ta | CS | 4UKRKFT | | 9.5+07 | Jour | EPJ/A,57,208 | 21 | A.N.Vodin+ | G4094 |
| * | $\gamma, 3n$ | ^{178}Ta | CS | 4UKRKFT | | 8.1+07 | Jour | CPH/C,46,014001 | 22 | O.S.Deiev+ | G4098 |
| * | $\gamma, 3n$ | ^{178}Ta | CS | 4UKRKFT | | 9.5+07 | Jour | EPJ/A,57,208 | 21 | A.N.Vodin+ | G4094 |
| * | $\gamma, 4n$ | ^{177}Ta | CS | 4UKRKFT | | 9.5+07 | Jour | EPJ/A,57,208 | 21 | A.N.Vodin+ | G4094 |
| * | $\gamma, 5n$ | ^{176}Ta | CS | 4UKRKFT | | 9.5+07 | Jour | EPJ/A,57,208 | 21 | A.N.Vodin+ | G4094 |
| * | $\gamma, 6n$ | ^{175}Ta | CS | 4UKRKFT | | 9.5+07 | Jour | EPJ/A,57,208 | 21 | A.N.Vodin+ | G4094 |
| * | $\gamma, 7n$ | ^{174}Ta | CS | 4UKRKFT | | 9.5+07 | Jour | EPJ/A,57,208 | 21 | A.N.Vodin+ | G4094 |
| * | $\gamma, 8n$ | ^{173}Ta | CS | 4UKRKFT | | 9.5+07 | Jour | EPJ/A,57,208 | 21 | A.N.Vodin+ | G4094 |
| * | γ, n | ^{180}Ta | CS | 4UKRKFT | | 9.5+07 | Jour | EPJ/A,57,208 | 21 | A.N.Vodin+ | G4094 |
| * | $p, 4n$ | ^{178}W | CS | 3CZRUF | 2.6+07 | 3.3+07 | Jour | NP/A,1016,122310 | 21 | E.Simeckova+ | D0995 |
| * | p, x | ^{175}Hf | CS | 3CZRUF | 3.0+07 | 3.3+07 | Jour | NP/A,1016,122310 | 21 | E.Simeckova+ | D0995 |
| * | p, x | ^{178}Ta | CS | 3CZRUF | 2.3+07 | 3.3+07 | Jour | NP/A,1016,122310 | 21 | E.Simeckova+ | D0995 |
| * | p, x | ^{180}Ta | CS | 3CZRUF | 1.5+07 | 3.3+07 | Jour | NP/A,1016,122310 | 21 | E.Simeckova+ | D0995 |

74 Tungsten 180

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|-------------|------------------|------|-------------|-----|------|-------------------------------|--------------------------------|--------|-------------|-----------------------|
| | | | | Min | Max | | | | | | |
| | n, γ | ^{181}W | CS | 2GERKFK | | | Jour | PR/C,82,035806 | 10 | J.Marganec+ | 23094 |

74 Tungsten 186

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|---------------------|-------------------|------|-------------|--------|--------|-------------------------------|---------------------------------|--------|----------|-----------------------|
| | | | | Min | Max | | | | | | |
| * | $^{40}\text{Ar}, x$ | ^{222}Pa | ? | 3CPRIMP | 2.0+08 | 2.0+08 | Jour | CPH/C,45,044003 | 21 | Wei Hua+ | S0272 |

76 Osmium 184

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|-------------|-------------------|------|-------------|-----|------|-------------------------------|--------------------------------|--------|-------------|-----------------------|
| | | | | Min | Max | | | | | | |
| | n, γ | ^{185}Os | CS | 2GERKFK | | | Jour | PR/C,82,035806 | 10 | J.Marganec+ | 23094 |

76 Osmium 190

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|-------------|-------------------|------|-------------|-----|--------|-------------------------------|--------------------------------|--------|-------------|-----------------------|
| | | | | Min | Max | | | | | | |
| * | n, γ | ^{191}Os | CS | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganec+ | 23267 |
| * | n, γ | ^{191}Os | ? | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganec+ | 23267 |

76 Osmium 192

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|--------------|-------------------|--------|---------|-------------|--------|------|--------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| * n,γ | ^{193}Os | CS | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |
| * n,γ | ^{193}Os | ? | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |

78 Platinum 190

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{191}Pt | CS | 2GERKFK | | | Jour | PR/C,82,035806 | 10 | J.Marganiec+ | 23094 |

78 Platinum 196

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|--------------|-------------------|--------|---------|-------------|--------|------|--------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| * n,γ | ^{197}Pt | CS | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |
| * n,γ | ^{197}Pt | ? | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |

78 Platinum 198

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|--------------|-------------------|--------|---------|-------------|--------|------|--------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| * n,γ | ^{199}Pt | CS | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |
| * n,γ | ^{199}Pt | ? | 2GERKFK | 2.5+04 | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |

79 Gold 197

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|--------------------|-------------------|--------|---------|-------------|--------|------|---------------------------------|------|-----------|-----------------------|
| | | | | Min | Max | | | | | |
| * $^9\text{Be},3n$ | ^{203}Bi | CS | 3ARGCNE | 3.4+07 | 4.8+07 | Jour | PR/C,104,024609 | 21 | F.Gollan+ | D1005 |
| * $^9\text{Be},4n$ | ^{202}Bi | CS | 3ARGCNE | 3.4+07 | 4.8+07 | Jour | PR/C,104,024609 | 21 | F.Gollan+ | D1005 |
| * $^9\text{Be},5n$ | ^{201}Bi | CS | 3ARGCNE | 4.3+07 | 4.8+07 | Jour | PR/C,104,024609 | 21 | F.Gollan+ | D1005 |
| * $^9\text{Be},x$ | ^{196}Au | CS | 3ARGCNE | 3.2+07 | 4.8+07 | Jour | PR/C,104,024609 | 21 | F.Gollan+ | D1005 |
| * $^9\text{Be},x$ | ^{198}Au | CS | 3ARGCNE | 2.1+07 | 4.8+07 | Jour | PR/C,104,024609 | 21 | F.Gollan+ | D1005 |
| * $^9\text{Be},x$ | ^{199}Tl | CS | 3ARGCNE | 3.6+07 | 4.8+07 | Jour | PR/C,104,024609 | 21 | F.Gollan+ | D1005 |
| * $^9\text{Be},x$ | ^{200}Tl | CS | 3ARGCNE | 3.2+07 | 4.8+07 | Jour | PR/C,104,024609 | 21 | F.Gollan+ | D1005 |

80 Mercury 196

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|------------|-------------------|--------|---------|-------------|-----|------|--------------------------------|------|--------------|-----------------------|
| | | | | Min | Max | | | | | |
| n,γ | ^{197}Hg | CS | 2GERKFK | | | Jour | PR/C,82,035806 | 10 | J.Marganiec+ | 23094 |

80 Mercury 202

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|------------|-------------------|------|-------------|-----|--------|-------------------------------|--------------------------------|--------|--------------|-----------------------|
| | | | | Min | Max | | | | | | |
| * | n,γ | ^{203}Hg | CS | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |
| * | n,γ | ^{203}Hg | ? | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |

80 Mercury 204

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|------------|-------------------|------|-------------|-----|--------|-------------------------------|--------------------------------|--------|--------------|-----------------------|
| | | | | Min | Max | | | | | | |
| * | n,γ | ^{205}Hg | CS | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |
| * | n,γ | ^{205}Hg | ? | 2GERKFK | | 1.1+05 | Jour | PR/C,90,065801 | 14 | J.Marganiec+ | 23267 |

82 Lead 204

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|--------------------|-------------------|------|-------------|--------|--------|-------------------------------|----------------------------------|--------|-----------------|-----------------------|
| | | | | Min | Max | | | | | | |
| * | $^{50}\text{Ti},n$ | ^{253}Rf | CS | 2GERGSI | 2.3+08 | 2.3+08 | Jour | PR/C,104,L031303 | 21 | J.Khuyagbaatar+ | D8039 |

82 Lead 208

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|--------------------|-------------------|------|-------------|--------|--------|-------------------------------|---------------------------------|--------|-----------|-----------------------|
| | | | | Min | Max | | | | | | |
| | n,γ | ^{209}Pb | CS | 2GERKFK | Maxwl | | Jour | NP/A,718,518 | 03 | H.Beer+ | 22852 |
| | n,γ | ^{209}Pb | ? | 2GERKFK | | | Jour | PR/C,70,065803 | 04 | U.Ratzel+ | 22883 |
| | n,γ | ^{209}Pb | ? | 2GERKFK | 3.0+04 | 2.2+05 | Jour | NP/A,718,518 | 03 | H.Beer+ | 22852 |
| | n,γ | ^{209}Pb | ? | 2GERKFK | Maxwl | | Jour | PR/C,70,065803 | 04 | U.Ratzel+ | 22883 |
| * | $^3\text{He},el$ | ^{208}Pb | DA | 3CPRIMP | 5.5+07 | 5.5+07 | Jour | PR/C,103,024606 | 21 | K.Wang+ | S0265 |
| * | $^7\text{Be},el$ | ^{208}Pb | DA | 3CPRIMP | 1.8+08 | 1.8+08 | Jour | PR/C,103,024606 | 21 | K.Wang+ | S0265 |
| * | $^8\text{B},el$ | ^{208}Pb | DA | 3CPRIMP | 2.4+08 | 2.4+08 | Jour | PR/C,103,024606 | 21 | K.Wang+ | S0265 |
| * | $^8\text{B},x$ | ^{10}Be | DA | 3CPRIMP | 2.4+08 | 2.4+08 | Jour | PR/C,103,024606 | 21 | K.Wang+ | S0265 |
| * | $^{17}\text{F},el$ | ^{208}Pb | DA | 3CPRIMP | 9.4+07 | 9.4+07 | Jour | EPJ/A,57,143 | 21 | C.H.Rong+ | S0269 |

83 Bismuth 209

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # | |
|----------|------------|-------------------|------|-------------|-------|------|-------------------------------|--------------------------------|--------|-------------|-----------------------|
| | | | | Min | Max | | | | | | |
| | n,γ | ^{210}Bi | CS | 2GERKFK | | | Conf | 2007NICE,2,1333 | 07 | S.Bisterzo+ | 23051 |
| | n,γ | ^{210}Bi | ? | 2GERKFK | | | Jour | PR/C,70,065803 | 04 | U.Ratzel+ | 22883 |
| | n,γ | ^{210}Bi | ? | 2GERKFK | | | Conf | 2007NICE,2,1333 | 07 | S.Bisterzo+ | 23051 |
| | n,γ | ^{210}Bi | ? | 2GERKFK | Maxwl | | Jour | PR/C,70,065803 | 04 | U.Ratzel+ | 22883 |

90 Thorium 232

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-------------------------|---------|--------|---------|-------------|--------|------|---------------------------------|------|-------------|--------|
| | | | | Min | Max | | | | | |
| * γ ,fis | Many | FY | 4UKRIEP | | 1.8+07 | Jour | UZHV,49,54 | 21 | O.O.Parlag+ | G4097 |
| * ^{18}O ,fis | | CS | 3AULCBR | 7.3+07 | 9.0+07 | Jour | PR/C,103,034603 | 21 | D.Y.Jeung+ | D1001 |
| * ^{30}Si ,fis | | CS | 3AULCBR | 1.3+08 | 1.5+08 | Jour | PR/C,103,034603 | 21 | D.Y.Jeung+ | D1001 |
| * ^{30}Si ,fis | | DA | 3AULCBR | 1.3+08 | 1.5+08 | Jour | PR/C,103,034603 | 21 | D.Y.Jeung+ | D1001 |
| * ^{34}S ,fis | | CS | 3AULCBR | 1.4+08 | 1.7+08 | Jour | PR/C,103,034603 | 21 | D.Y.Jeung+ | D1001 |
| * ^{40}Ca ,fis | | CS | 3AULCBR | 1.9+08 | 2.2+08 | Jour | PR/C,103,034603 | 21 | D.Y.Jeung+ | D1001 |

92 Uranium 236

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-----------------|-------------------|--------|---------|-------------|--------|------|-------------------------------|------|-----------|--------|
| | | | | Min | Max | | | | | |
| * α ,2n | ^{238}Pu | CS | 3CPRAEP | 1.8+07 | 3.2+07 | Jour | CNPR,34,351 | 17 | Ma Nanru+ | S0250 |
| * α ,fis | | CS | 3CPRAEP | 1.8+07 | 3.6+07 | Jour | CNPR,34,351 | 17 | Ma Nanru+ | S0250 |
| * α ,fis | | DA | 3CPRAEP | 1.8+07 | 3.6+07 | Jour | CNPR,34,351 | 17 | Ma Nanru+ | S0250 |

92 Uranium 238

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|---------|-------------|--------|------|-------------------------------|------|-----------|--------|
| | | | | Min | Max | | | | | |
| p ,x | Many | CS | 1USALAS | 1.0+08 | 1.0+08 | Jour | PR/C,8,2364 | 73 | C.J.Orth+ | C2664 |

94 Plutonium 239

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-----------------|---------|--------|---------|-------------|--------|------|-------------------------------|------|-------------|--------|
| | | | | Min | Max | | | | | |
| * γ ,fis | Many | FY | 4UKRIEP | | 1.8+07 | Jour | VAT/I,,(6/136),8 | 21 | O.O.Parlag+ | G4096 |

96 Curium 248

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|-----------------------|-------------------|--------|---------|-------------|--------|------|-------------------------------|------|---------------|--------|
| | | | | Min | Max | | | | | |
| * ^{40}Ca ,x | ^{252}Cf | CS | 2GERGSI | 2.7+08 | 2.7+08 | Jour | EPJ/A,55,25 | 19 | H.M.Devaraja+ | D8038 |
| * ^{40}Ca ,x | ^{254}Cf | CS | 2GERGSI | 2.7+08 | 2.7+08 | Jour | EPJ/A,55,25 | 19 | H.M.Devaraja+ | D8038 |
| * ^{40}Ca ,x | ^{254}Fm | CS | 2GERGSI | 2.7+08 | 2.7+08 | Jour | EPJ/A,55,25 | 19 | H.M.Devaraja+ | D8038 |
| * ^{40}Ca ,x | ^{256}Fm | CS | 2GERGSI | 2.7+08 | 2.7+08 | Jour | EPJ/A,55,25 | 19 | H.M.Devaraja+ | D8038 |
| * ^{40}Ca ,x | ^{260}No | CS | 2GERGSI | 2.7+08 | 2.7+08 | Jour | EPJ/A,55,25 | 19 | H.M.Devaraja+ | D8038 |

100 Fermium 259

| Reaction | Product | Quant. | Lab. | Energy (eV) | | Type | Documentation Ref Vol Page | Date | Author | Data # |
|----------|---------|--------|---------|-------------|-----|------|-------------------------------|------|--------------|--------|
| | | | | Min | Max | | | | | |
| 0,fis | Many | FY | 1USABRK | Spont | | Jour | PR/C,24,495 | 81 | D.C.Hoffman+ | 14717 |

