

EXFOR News (April 2014)

New experimental data available from Nuclear Reaction Data Centres

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Quantity codes

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

Special codes in outgoing particle field

abs	Absorption	fus	Fusion	sc	Scattering	tot	Total
el	Elastic	inel	Inelastic	tcx	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), [CAJaD](#) (Russia), [CDFE](#) (Russia), [CNPD](#) (Russia), [UkrNDC](#) (Ukraine)

1**Hydrogen****1**

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$d, \pi^- + p$	^2He	DAP	2GERJUL	7.1+08	7.1+08	Jour	PR/C,88,014001	13	S.Dymov+	O2164
$d, \pi^- + p$	^2He	POD	2GERJUL	7.1+08	7.1+08	Jour	PR/C,88,014001	13	S.Dymov+	O2164
$^{12}\text{C}, x$	Many	CS	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^6He	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^6Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^7Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^7Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^9Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^{10}Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^8B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^{10}B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^{11}B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^{10}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^{11}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x$	^{12}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x + \alpha$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x + d$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x + ^3\text{He}$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x + p$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C}, x + t$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{136}\text{Xe}, x$	Many	?	2GERGSI	6.8+10	6.8+10	Jour	NP/A,899,116	13	L.Giot+	O2143
$^{208}\text{Pb}, \text{fis}$		CS	2GERGSI	1.0+11	1.0+11	Jour	PR/C,87,034601	13	K.-H.Schmidt+	O2141
$^{238}\text{U}, \text{fis}$		CS	2GERGSI	1.3+11	2.2+11	Jour	PR/C,87,034601	13	K.-H.Schmidt+	O2141

1**Hydrogen****2**

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d, el	^2H	POD	2NEDKVI	1.3+08	1.3+08	Jour	PL/B,725,282	13	A.R.-M.-Arani+	O2168
d, p	^3H	CS	2ITYLNS	7.5+04	8.2+05	Jour	PR/C,87,025805	13	R.G.Pizzone+	O2146
$^8\text{He}, p$		RP	2FR GAN	1.8+05	3.4+06	Jour	PR/C,88,034301	13	T.Alkalanee+	O2169
$^8\text{He}, p$	^9He	?	2FR GAN	1.2+08	1.2+08	Jour	PR/C,88,034301	13	T.Alkalanee+	O2169
$^{14}\text{O}, \text{el}$	^2H	?	2FR GAN	2.5+08	2.5+08	Jour	PRL,110,122503	13	F.Flavigny+	O2149
$^{14}\text{O}, ^3\text{He}$	^{13}N	?	2FR GAN	2.5+08	2.5+08	Jour	PRL,110,122503	13	F.Flavigny+	O2149
$^{14}\text{O}, t$	^{13}O	?	2FR GAN	2.4+08	2.4+08	Jour	PRL,110,122503	13	F.Flavigny+	O2149
$^{208}\text{Pb}, \text{fis}$		CS	2GERGSI	1.0+11	1.0+11	Jour	PR/C,87,034601	13	K.-H.Schmidt+	O2141

2**Helium**

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n, ths	$^{\text{nat}}\text{He}$	TSL	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198
n, tot		CS	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198

2 Helium 3

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α, γ	⁷ Be	CS	3HUNDEB	1.5+06	2.5+06	Jour	NP/A,908,1	13	C.Bordeanu+	D4289

3 Lithium 6

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p, ^3\text{He}$	⁴ He	CS	2ITYLNS	1.5+04	6.0+05	Jour	AJ,768,65	13	L.Lamia+	O2147
$^3\text{He}, d$	⁷ Be	DAP	4KASKAZ	3.4+07	3.4+07	Jour	NP/A,909,20	13	N.Burtebayev+	D0712
$^3\text{He}, el$	⁶ Li	DA	4KASKAZ	3.4+07	3.4+07	Jour	NP/A,909,20	13	N.Burtebayev+	D0712
$^3\text{He}, inel$	⁶ Li	DAP	4KASKAZ	3.4+07	3.4+07	Jour	NP/A,909,20	13	N.Burtebayev+	D0712
$^{18}\text{O}, el$	⁶ Li	DA	3POLWWA	1.1+08	1.1+08	Jour	NP/A,922,71	14	A.T.Rudchik+	D5096
$^{18}\text{O}, inel$	⁶ Li	DAP	3POLWWA	1.1+08	1.1+08	Jour	NP/A,922,71	14	A.T.Rudchik+	D5096

4 Beryllium 9

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α, el	⁹ Be	DA	2ITYNAP	3.5+06	9.9+06	Jour	NIM/B,302,19	13	I.Lombardo+	O2137
$^{238}\text{U}, x$	¹⁹² Pt	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	¹⁹⁵ Au	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	¹⁹⁷ Au	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰¹ Tl	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰² Tl	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰³ Tl	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰⁴ Tl	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰² Pb	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰³ Pb	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰⁴ Pb	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰⁵ Pb	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰⁶ Pb	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰⁷ Bi	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰⁸ Po	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²⁰⁹ Po	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²¹⁰ Po	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²¹¹ Po	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²¹¹ At	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²¹² At	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²¹³ At	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²¹³ Rn	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²¹⁴ Rn	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166
$^{238}\text{U}, x$	²¹⁵ Rn	?	2GERGSI	2.4+11	2.4+11	Jour	PR/C,88,024611	13	M.Bowry+	O2166

5 Boron 10

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,γ	^{11}C	DAP	1USASTF	2.8+06	1.4+07	Jour	NP/A,151,129	70	H.M.Kuan+	C0634

5 Boron 11

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{11}C	CS	2FR PAR	1.6+08	3.0+09	Jour	CR/B,263,833	66	M.L.Sklavenitis	O2133

6 Carbon

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^{12}\text{C},x$	Many	CS	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170

6 Carbon 12

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^9\text{Be}, ^8\text{Be}$	^{13}C	DAP	2SWTETH	2.0+07	2.0+07	Jour	JP/G,5,565	79	L.Jarczyk+	O2157
$^{12}\text{C},x$	^6He	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^6Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^7Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^7Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^9Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{10}Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^8B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{10}B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{11}B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{10}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{11}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{12}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+\alpha$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+d$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+^3\text{He}$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+p$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+t$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{16}\text{O},\text{fus}$		CS	2FR GAN	1.0+07	1.2+07	Jour	JP/CS,420,012122	13	M.J.Rudolph+	O2145
$^{16}\text{O},\text{fus}$		CS	1USAWMU	8.2+06	1.5+07	Jour	JP/CS,420,012122	13	M.J.Rudolph+	O2145
$^{20}\text{O},\text{fus}$		CS	2FR GAN	7.3+06	1.5+07	Jour	JP/CS,420,012122	13	M.J.Rudolph+	O2145
$^{238}\text{U},\text{fis}$	Many	FY	2FR GAN	1.5+09	1.5+09	Jour	PR/C,88,024605	13	M.Caamano+	O2160

6 Carbon 13

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹³ C	DA	2PRTLIS	7.9+05	2.4+06	Jour	NIM/B,316,81	13	N.P.Barradas+	O2167
⁹ Be, α	¹⁸ O	DAP	2GRCATH	7.8+06	1.6+07	Jour	JP/G,7,389	81	D.Pocanic+	O2155

6 Carbon 14

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
¹¹ B, <i>el</i>	¹⁴ C	DA	3POLWWA	4.5+07	4.5+07	Jour	EPJ/A,50,4	14	S.Yu.Mezhevych+	D5094
¹¹ B, <i>inel</i>	¹⁴ C	DAP	3POLWWA	4.5+07	4.5+07	Jour	EPJ/A,50,4	14	S.Yu.Mezhevych+	D5094

7 Nitrogen 14

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,0</i>		RP	1USASTF			Jour	NP/A,151,129	70	H.M.Kuan+	C0634
<i>p,γ</i>	¹⁵ O	DAP	1USASTF	2.2+06	1.8+07	Jour	NP/A,151,129	70	H.M.Kuan+	C0634
<i>p,x</i>	⁷ Be	CS	2FR PAR	5.0+07	1.0+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	¹³ N	CS	2FR PAR	5.0+07	5.0+07	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>t,p</i>	¹⁶ N	DAP	2UK ALD	1.2+07	1.2+07	Jour	NP,88,(3),561	66	P.V.Hewka+	C2079

7 Nitrogen 15

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁷ Be	CS	2FR PAR	1.6+08	1.6+08	Jour	CR/B,263,752	63	H.Gauvin	O2132
<i>d,p</i>	¹⁶ N	DAP	1USAPEN	1.2+07	1.2+07	Jour	NP,88,(3),561	66	P.V.Hewka+	C2079

8 Oxygen

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		CS	1USACOR	8.0-01	8.0-01	Jour	PR,74,364	48	W.B.Jonesjr	11432
¹² C, <i>x</i>	Many	CS	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	⁶ He	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	⁶ Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	⁷ Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	⁷ Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	⁹ Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	¹⁰ Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	⁸ B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	¹⁰ B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	¹¹ B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	¹⁰ C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C, <i>x</i>	¹¹ C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170

$^{12}\text{C},x$	^{12}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+\alpha$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+d$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+^3\text{He}$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+p$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+t$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170

8 Oxygen 16

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,3p$	^{14}C	CS	2FR PAR	4.7+07	2.7+09	Jour	CR,253,1202	61	M.A.Tamers+	O2131
p,x	^7Be	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
p,x	^{11}C	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
p,x	^{13}N	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134

8 Oxygen 18

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{18}O	DA	1USADKE	1.8+06	3.2+06	Jour	AP,51,(3),461	69	D.L.Sellin+	C1918
p,x	^7Be	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
p,x	^7Be	CS	2FR PAR	1.6+08	1.6+08	Jour	CR/B,263,752	63	H.Gauvin	O2132
p,x	^{11}C	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
p,x	^{13}N	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
p,x	^{18}F	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134

9 Fluorine 19

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	^7Be	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
p,x	^7Be	CS	2FR PAR	1.6+08	1.6+08	Jour	CR/B,263,752	63	H.Gauvin	O2132
p,x	^{11}C	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
p,x	^{18}F	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
$^3\text{He},t$	^{19}Ne	DAP	2GERMUU	2.5+07	2.5+07	Jour	PRL,110,032502	13	A.M.Laird+	O2153

10 Neon

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,ths	$^{\text{nat}}\text{Ne}$	TSL	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198
n,tot		CS	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198

12 Magnesium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁷ Be	CS	2SWDUPP	2.3+07	1.6+09	Jour	NIM/B,129,153	97	R.Michel+	O0276
<i>p,x</i>	⁷ Be	CS	2FR PAR	5.0+07	1.0+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	¹⁰ Be	CS	2SWDUPP	4.1+07	1.6+09	Jour	NIM/B,129,153	97	R.Michel+	O0276
<i>p,x</i>	¹¹ C	CS	2FR PAR	5.0+07	1.0+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	¹⁸ F	CS	2FR PAR	5.0+07	1.0+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	²² Na	CS	2FR PAR	5.0+07	1.0+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	²² Na	CS	2SWDUPP	8.2+06	1.6+09	Jour	NIM/B,129,153	97	R.Michel+	O0276
<i>p,x</i>	²⁴ Na	CS	2SWDUPP	8.3+06	1.6+08	Jour	NIM/B,129,153	97	R.Michel+	O0276
<i>p,x+³He</i>	inclusive	CS	1USALAS	8.0+08	2.6+09	Jour	NIM/B,103,183	95	R.Michel+	O0277

13 Aluminium 27

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁷ Be	CS	2FR PAR	1.6+08	1.6+08	Jour	CR,259,1406	64	M.Lignonniere+	O2128
<i>p,x</i>	⁷ Be	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	¹¹ C	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	¹³ N	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	¹⁸ F	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	²² Na	CS	2FR PAR	1.6+08	1.6+08	Jour	CR,253,2919	61	M.Nguyen-Long-Den	O2129
<i>p,x+α</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+α</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+d</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+d</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+³He</i>	inclusive	CS	1USALAS	8.0+08	2.6+09	Jour	NIM/B,103,183	95	R.Michel+	O0277
<i>p,x+³He</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+³He</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+p</i>	inclusive	DAE	1USAINU	1.6+08	1.6+08	Jour	PR/C,26,2424	82	R.E.Segel+	O0149
<i>p,x+p</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+p</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+t</i>	inclusive	DAE	1USAINU	1.6+08	1.6+08	Jour	PR/C,26,2424	82	R.E.Segel+	O0149
<i>p,x+t</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+t</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
¹² C,x	Many	CS	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	⁶ He	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	⁶ Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	⁷ Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	⁷ Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	⁹ Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	¹⁰ Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	⁸ B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	¹⁰ B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	¹¹ B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	¹⁰ C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	¹¹ C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x	¹² C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x+α	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x+d	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x+ ³ He	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x+p	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
¹² C,x+t	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170

14 Silicon

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁷ Be	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	¹¹ C	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	¹³ N	CS	2FR PAR	1.5+08	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	¹⁸ F	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	²² Na	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	²⁴ Na	CS	2FR PAR	5.0+07	1.5+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x+³He</i>	inclusive	CS	1USALAS	8.0+08	2.6+09	Jour	NIM/B,103,183	95	R.Michel+	O0277

14 Silicon 28

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,inel</i>	²⁸ Si	CSP	2ZZZGEL	3.7+05	1.8+07	Jour	PR/C,88,034604	13	A.Negret+	23173
<i>n,p</i>	²⁸ Al	CSP	2ZZZGEL	3.7+05	1.7+07	Jour	PR/C,88,034604	13	A.Negret+	23173
⁸ B, <i>x+α</i>	inclusive	CS	2ITYPAD	2.0+07	3.5+07	Jour	PR/C,87,014619	13	A.Pakou+	O2152

17 Chlorine

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	²² Na	CS	2FR PAR	1.0+08	1.0+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134
<i>p,x</i>	³⁴ Cl	CS	2FR PAR	5.0+07	1.0+08	Jour	CR/B,273,1054	71	R.Bimbot+	O2134

18 Argon

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,ths</i>	^{nat} Ar	TSL	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198
<i>n,tot</i>		CS	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198

20 Calcium 40

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,γ</i>		RP	2GERZFK	4.5+06	4.5+06	Jour	PR/C,88,025803	13	K.Schmidt+	O2161
<i>α,γ</i>	⁴⁴ Ti	DAP	2GERZFK	4.5+06	4.5+06	Jour	PR/C,88,025803	13	K.Schmidt+	O2161

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Calcium

44

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{44}Sc	CS	2ZZZISP	5.5+06	1.8+07	Jour	RCA,101,333	13	S.Krajewski+	O2136
p,n	^{44}Sc	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

20

Calcium

48

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,0$		RP	1USAORL			Jour	PR/C,32,1114	85	J.A.Harvey+	12955

22

Titanium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^{12}\text{C},x$	Many	CS	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^6He	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^6Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^7Li	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^7Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^9Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{10}Be	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^8B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{10}B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{11}B	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{10}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{11}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x$	^{12}C	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+\alpha$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+d$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+^3\text{He}$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+p$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170
$^{12}\text{C},x+t$	inclusive	DA	2FR GAN	1.1+09	1.1+09	Jour	PR/C,88,024606	13	J.Dudouet+	O2170

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Titanium

46

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,el	^{46}Ti	DA	2UK HAR	7.0+06	1.0+07	Jour	JP/G,6,369	80	D.L.Watson+	O2159
d,p	^{47}Ti	DAP	2UK HAR	7.0+06	1.0+07	Jour	JP/G,6,369	80	D.L.Watson+	O2159
$^7\text{Li},\text{el}$	^{46}Ti	DA	2UK LVP	1.7+07	1.7+07	Jour	JP/G,5,1751	79	T.P.Morrison+	O2156
$^7\text{Li},\text{inel}$	^{46}Ti	DAP	2UK LVP	1.7+07	1.7+07	Jour	JP/G,5,1751	79	T.P.Morrison+	O2156

22

Titanium

48

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
${}^7\text{Li},\text{el}$	${}^{48}\text{Ti}$	DA	2UK LVP	1.7+07	1.7+07	Jour	JP/G,5,1751	79	T.P.Morrison+	O2156
${}^7\text{Li},\text{inel}$	${}^{48}\text{Ti}$	DAP	2UK LVP	1.7+07	1.7+07	Jour	JP/G,5,1751	79	T.P.Morrison+	O2156

23

Vanadium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	${}^7\text{Be}$	CS	2FR PAR	1.6+08	1.6+08	Jour	CR,259,1406	64	M.Ligonniere+	O2128

24

Chromium

52

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	${}^{52}\text{Mn}$	CS	2SWTETH	5.6+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

26

Iron

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,x+{}^3\text{He}$	inclusive	CS	1USALAS	8.0+08	2.6+09	Jour	NIM/B,103,183	95	R.Michel+	O0277

26

Iron

55

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	${}^{52}\text{Cr}$	CS	1USAORL	2.5-02	2.5-02	Jour	FED,88,2860	13	H.Liu+	14376

26

Iron

56

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,inel	${}^{56}\text{Fe}$	CSP	2ZZZGEL	4.0+06	6.0+06	Jour	PR/C,88,027601	13	A.Negret+	23073

27

Cobalt

59

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,3n$	${}^{57}\text{Ni}$	CS	2BLGVUB	1.6+07	7.0+07	Jour	JRN,298,853	13	F.Ditroi+	D4293
$p,4n$	${}^{56}\text{Ni}$	CS	2BLGVUB	6.0+07	7.0+07	Jour	JRN,298,853	13	F.Ditroi+	D4293
p,x	${}^{51}\text{Cr}$	CS	2BLGVUB	6.0+07	7.0+07	Jour	JRN,298,853	13	F.Ditroi+	D4293

<i>p,x</i>	⁵² Mn	CS	2BLGVUB	6.0+07	7.0+07	Jour	JRN,298,853	13	F.Ditroi+	D4293
<i>p,x</i>	⁵⁴ Mn	CS	2BLGVUB	2.7+07	7.0+07	Jour	JRN,298,853	13	F.Ditroi+	D4293
<i>p,x</i>	⁵⁵ Co	CS	2BLGVUB	6.0+07	7.0+07	Jour	JRN,298,853	13	F.Ditroi+	D4293
<i>p,x</i>	⁵⁶ Co	CS	2BLGVUB	2.7+07	7.0+07	Jour	JRN,298,853	13	F.Ditroi+	D4293
<i>p,x</i>	⁵⁷ Co	CS	2BLGVUB	1.5+07	7.0+07	Jour	JRN,298,853	13	F.Ditroi+	D4293
<i>p,x</i>	⁵⁸ Co	CS	2BLGVUB	9.9+06	7.0+07	Jour	JRN,298,853	13	F.Ditroi+	D4293
<i>d,x</i>	⁵¹ Cr	CS	2GERKFK	4.3+07	5.2+07	Rept	KFK-1171	70	R.Bilabel	O2124
<i>d,x</i>	⁵⁴ Mn	CS	2GERKFK	3.4+07	5.2+07	Rept	KFK-1171	70	R.Bilabel	O2124
<i>d,x</i>	⁵⁶ Mn	CS	2GERKFK	1.1+07	5.2+07	Rept	KFK-1171	70	R.Bilabel	O2124
<i>d,x</i>	⁵⁹ Fe	CS	2GERKFK	1.5+07	5.2+07	Rept	KFK-1171	70	R.Bilabel	O2124
<i>d,x</i>	⁵⁶ Co	CS	2GERKFK	3.7+07	5.2+07	Rept	KFK-1171	70	R.Bilabel	O2124
<i>d,x</i>	⁵⁷ Co	CS	2GERKFK	2.0+07	5.2+07	Rept	KFK-1171	70	R.Bilabel	O2124
<i>d,x</i>	⁵⁸ Co	CS	2GERKFK	1.0+07	5.2+07	Rept	KFK-1171	70	R.Bilabel	O2124
<i>d,x</i>	⁶⁰ Co	CS	2GERKFK	1.0+07	4.9+07	Rept	KFK-1171	70	R.Bilabel	O2124
<i>d,x</i>	⁵⁷ Ni	CS	2GERKFK	3.1+07	5.2+07	Rept	KFK-1171	70	R.Bilabel	O2124

28 Nickel

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x+³He</i>	inclusive	CS	1USALAS	6.0+08	2.6+09	Jour	NIM/B,103,183	95	R.Michel+	O0277
<i>d,x</i>	⁵¹ Cr	CS	2JPNTOH	3.3+07	4.0+07	Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵² Mn	CS	2JPNTOH	1.5+07	4.0+07	Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵⁴ Mn	CS	2JPNTOH	2.3+07	4.0+07	Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵⁵ Co	CS	2JPNTOH	3.2+06	4.0+07	Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵⁶ Co	CS	2JPNTOH	3.2+06	4.0+07	Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵⁷ Co	CS	2JPNTOH	3.2+06	4.0+07	Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵⁸ Co	CS	2JPNTOH	3.2+06	4.0+07	Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵⁸ Co	TT	2JPNTOH			Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵⁶ Ni	CS	2JPNTOH	2.9+07	4.0+07	Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵⁷ Ni	CS	2JPNTOH	3.2+06	4.0+07	Jour	ARI,82,87	13	N.Amjed+	D4288
<i>d,x</i>	⁵⁷ Ni	TT	2JPNTOH	2.1+07	2.1+07	Jour	ARI,82,87	13	N.Amjed+	D4288

28 Nickel 58

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x+α</i>	inclusive	DAE	1USAMRY	9.0+07	1.0+08	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+α</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+d</i>	inclusive	DAE	1USAMRY	9.0+07	1.0+08	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+d</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+³He</i>	inclusive	DAE	1USAMRY	9.0+07	1.0+08	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+³He</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+p</i>	inclusive	DAE	1USAMRY	1.0+08	1.0+08	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+p</i>	inclusive	DAE	1USAINU	1.0+08	1.6+08	Jour	PR/C,26,2424	82	R.E.Segel+	O0149
<i>p,x+p</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+p</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+t</i>	inclusive	DAE	1USAMRY	1.0+08	1.0+08	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+t</i>	inclusive	DAE	1USAINU	1.6+08	1.6+08	Jour	PR/C,26,2424	82	R.E.Segel+	O0149
<i>p,x+t</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+t</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
⁷ Li,el	⁵⁸ Ni	DA	2UK LVP	1.9+07	1.9+07	Jour	JP/G,5,1751	79	T.P.Morrison+	O2156
⁷ Li,inel	⁵⁸ Ni	DAP	2UK LVP	1.9+07	1.9+07	Jour	JP/G,5,1751	79	T.P.Morrison+	O2156

${}^7\text{Be},\text{el}$	${}^{58}\text{Ni}$	DA	2ITYPAD	2.3+07	2.3+07	Jour	JP/CS,420,012077	13	M.Mazzocco+	O2142
${}^7\text{Be},\text{non}$		CS	2ITYPAD	2.3+07	2.3+07	Jour	JP/CS,420,012077	13	M.Mazzocco+	O2142
${}^{12}\text{C}, {}^{10}\text{Be}$	${}^{60}\text{Zn}$	DAP	1USAMSU	7.7+07	7.7+07	Jour	NP/A,313,(3),385	79	D.J.Weber+	C2082
${}^{12}\text{C}, {}^9\text{Be}$	${}^{61}\text{Zn}$	DAP	1USAMSU	7.7+07	7.7+07	Jour	NP/A,313,(3),385	79	D.J.Weber+	C2082

28 Nickel 62

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
$p,x+\alpha$	inclusive	DAE	1USAINU	1.6+08	1.6+08	Jour	PR/C,26,2424	82	R.E.Segel+	O0149
$p,x+d$	inclusive	DAE	1USAINU	1.0+08	1.6+08	Jour	PR/C,26,2424	82	R.E.Segel+	O0149
$p,x+{}^3\text{He}$	inclusive	DAE	1USAINU	1.6+08	1.6+08	Jour	PR/C,26,2424	82	R.E.Segel+	O0149
$p,x+p$	inclusive	DAE	1USAINU	1.6+08	1.6+08	Jour	PR/C,26,2424	82	R.E.Segel+	O0149
$p,x+t$	inclusive	DAE	1USAINU	1.6+08	1.6+08	Jour	PR/C,26,2424	82	R.E.Segel+	O0149

29 Copper 63

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
$d,{}^3\text{He}$	${}^{62}\text{Ni}$	DAP	1USAORL	3.4+07	3.4+07	Jour	NP/A,113,(1),176	68	J.C.Hiebert+	C2081

29 Copper 65

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
$d,{}^3\text{He}$	${}^{64}\text{Ni}$	DAP	1USAORL	3.4+07	3.4+07	Jour	NP/A,113,(1),176	68	J.C.Hiebert+	C2081

30 Zinc 64

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
d,t	${}^{63}\text{Zn}$	DAP	2GERLMU	2.2+07	2.2+07	Jour	PR/C,87,064306	13	K.G.Leach+	O2154
d,t	${}^{63}\text{Zn}$	POD	2GERLMU	2.2+07	2.2+07	Jour	PR/C,87,064306	13	K.G.Leach+	O2154

34 Selenium 80

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
p,n	${}^{80}\text{Br}$	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

35 Bromine 79

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					

p,n	^{79}Kr	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127
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36 Krypton

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,ths	^{nat}Kr	TSL	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198
n,tot		CS	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198

36 Krypton 80

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,n	^{83}Sr	DAP	2UK LVP	1.4+07	1.8+07	Jour	JP/G,6,1415	80	L.P.Ekstroem+	O2158
α,n	^{83}Sr	POL	2UK LVP	1.4+07	1.8+07	Jour	JP/G,6,1415	80	L.P.Ekstroem+	O2158
α,n	^{83}Sr	SPC	2UK LVP	1.4+07	1.8+07	Jour	JP/G,6,1415	80	L.P.Ekstroem+	O2158

36 Krypton 82

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$\alpha,2n$	^{84}Sr	DAP	2UK LVP	1.8+07	1.8+07	Jour	JP/G,6,1415	80	L.P.Ekstroem+	O2158
$\alpha,2n$	^{84}Sr	POL	2UK LVP	1.8+07	1.8+07	Jour	JP/G,6,1415	80	L.P.Ekstroem+	O2158
$\alpha,2n$	^{84}Sr	SPC	2UK LVP	1.8+07	1.8+07	Jour	JP/G,6,1415	80	L.P.Ekstroem+	O2158
α,n	^{85}Sr	DAP	2UK LVP	1.4+07	1.8+07	Jour	JP/G,6,1415	80	L.P.Ekstroem+	O2158
α,n	^{85}Sr	POL	2UK LVP	1.4+07	1.8+07	Jour	JP/G,6,1415	80	L.P.Ekstroem+	O2158
α,n	^{85}Sr	SPC	2UK LVP	1.4+07	1.8+07	Jour	JP/G,6,1415	80	L.P.Ekstroem+	O2158

37 Rubidium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	^{82}Sr	TT	2GERJUL	9.7+06	6.5+07	Jour	ARI,65,247	07	S.M.Qaim+	O2135
p,x	^{85}Sr	CS	2GERJUL	2.4+07	4.5+07	Jour	ARI,65,247	07	S.M.Qaim+	O2135
p,x	^{85}Sr	TT	2GERJUL	9.7+06	6.5+07	Jour	ARI,65,247	07	S.M.Qaim+	O2135

37 Rubidium 85

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{85}Sr	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

38

Strontium

87

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁸⁷ Y	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

39

Yttrium

89

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,γ</i>	⁹⁰ Zr	CS	2GERBOC	1.6+06	4.7+06	Jour	PR/C,87,025806	13	S.Harissopulos+	O2150
<i>p,n</i>	⁸⁹ Zr	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

40

Zirconium

90

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x+α</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+α</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+d</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+d</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+³He</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+³He</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+p</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+p</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+t</i>	inclusive	DAE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137
<i>p,x+t</i>	inclusive	DE	1USAMRY	9.0+07	9.0+07	Jour	PR/C,19,698	79	J.R.Wu+	O0137

42

Molybdenum

94

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,inel</i>	⁹⁴ Mo	DAP	2NEDKVI	1.4+08	1.4+08	Jour	NP/A,906,94	13	V.Derya+	O2138

42

Molybdenum

95

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁹⁵ Tc	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

44

Ruthenium

100

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,n</i>	¹⁰³ Pd	CS	3PAKGCL	1.0+07	2.5+07	Jour	ARI,67,1842	09	M.Hussain+	D0729

44 Ruthenium 101

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$\alpha,2n$	¹⁰³ Pd	CS	3PAKGCL	1.5+07	2.4+07	Jour	ARI,67,1842	09	M.Hussain+	D0729

44 Ruthenium 102

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
³ He, ₂ n	¹⁰³ Pd	CS	3PAKGCL	1.2+07	3.4+07	Jour	ARI,67,1842	09	M.Hussain+	D0729

44 Ruthenium 104

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	¹⁰⁴ Rh	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

45 Rhodium 103

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	¹⁰³ Pd	CS	3PAKGCL	3.0+06	4.0+07	Jour	ARI,67,1842	09	M.Hussain+	D0729
$d,2n$	¹⁰³ Pd	CS	3PAKGCL	4.0+06	2.2+07	Jour	ARI,67,1842	09	M.Hussain+	D0729

46 Palladium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	⁷⁸ Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
p,x	⁸⁰ Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
p,x	⁸¹ Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
p,x	⁸² Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
p,x	⁸³ Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
p,x	⁸⁴ Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
p,x	⁸⁵ Kr	CS	2FR PAR	1.0+09	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
p,x	⁸⁶ Kr	CS	2FR PAR	1.0+09	1.0+09	Jour	JPR,45,981	84	B.Lavielle+	O2126

46 Palladium 110

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	¹¹⁰ Ag	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

47 Silver

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁷⁸ Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
<i>p,x</i>	⁸⁰ Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
<i>p,x</i>	⁸¹ Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
<i>p,x</i>	⁸² Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
<i>p,x</i>	⁸³ Kr	CS	2FR PAR	1.5+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
<i>p,x</i>	⁸⁴ Kr	CS	2FR PAR	6.0+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
<i>p,x</i>	⁸⁵ Kr	CS	2FR PAR	6.0+08	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
<i>p,x</i>	⁸⁶ Kr	CS	2FR PAR	2.4+10	2.4+10	Jour	JPR,45,981	84	B.Lavielle+	O2126
<i>p,x</i>	¹⁰³ Pd	CS	3PAKGCL	1.5+07	9.4+07	Jour	ARI,67,1842	09	M.Hussain+	D0729
<i>p,x</i>	¹⁰³ Ag	CS	3PAKGCL	4.4+07	6.6+07	Jour	ARI,67,1842	09	M.Hussain+	D0729

48 Cadmium 105

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
0,0		NQ	2NOROSL	Spont		Jour	PR/C,87,014319	13	A.C.Larsen+	O2148

48 Cadmium 106

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
0,0		NQ	2NOROSL	Spont		Jour	PR/C,87,014319	13	A.C.Larsen+	O2148

48 Cadmium 111

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
0,0		NQ	2NOROSL	Spont		Jour	PR/C,87,014319	13	A.C.Larsen+	O2148

48 Cadmium 112

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
0,0		NQ	2NOROSL	Spont		Jour	PR/C,87,014319	13	A.C.Larsen+	O2148

48 Cadmium 114

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹¹⁴ In	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

49

Indium

113

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

α,el	^{113}In	DA	3HUNDEB	1.6+07	1.9+07	Jour	PR/C,88,045804	13	G.G.Kiss+	D4297
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50

Tin

112

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

p,el	^{112}Sn	DA	2NEDFUL	2.1+07	2.1+07	Jour	NP/A,333,116	80	P.J.Blankert+	O2125
$p,incl$	^{112}Sn	DAP	2NEDFUL	2.1+07	2.5+07	Jour	NP/A,333,116	80	P.J.Blankert+	O2125

51

Antimony

121

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

p,γ	^{122}Te	CS	2GERBOC	2.4+06	3.4+06	Jour	PR/C,87,025806	13	S.Harissopulos+	O2150
p,n	^{121}Te	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127

51

Antimony

123

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

p,γ	^{124}Te	CS	2GERBOC	2.4+06	3.4+06	Jour	PR/C,87,025806	13	S.Harissopulos+	O2150
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53

Iodine

127

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

p,n	^{127}Xe	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127
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54

Xenon

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

n,ths	^{nat}Xe	TSL	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198
n,tot		CS	2FR ILL	1.0-07	1.0-07	Jour	ZEP,97,(12),777	13	A.P.Serebrov+	23198

54

Xenon

124

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,0		RP	2ZZZGEL			Jour	NP/A,870-871,131	11	G.Noguere+	23211

54

Xenon

126

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,0		RP	2ZZZGEL			Jour	NP/A,870-871,131	11	G.Noguere+	23211

54

Xenon

128

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,0		RP	2ZZZGEL			Jour	NP/A,870-871,131	11	G.Noguere+	23211

54

Xenon

129

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,0		RP	2ZZZGEL		9.6+00	Jour	NP/A,870-871,131	11	G.Noguere+	23211
<i>n</i> ,el		RP	2ZZZGEL	1.8+03	9.6+00	Jour	NP/A,870-871,131	11	G.Noguere+	23211
<i>n</i> , γ		RP	2ZZZGEL		4.1+03	Jour	NP/A,870-871,131	11	G.Noguere+	23211

54

Xenon

130

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,0		RP	2ZZZGEL			Jour	NP/A,870-871,131	11	G.Noguere+	23211

54

Xenon

131

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,0		RP	2ZZZGEL		1.4+01	Jour	NP/A,870-871,131	11	G.Noguere+	23211
<i>n</i> ,el		RP	2ZZZGEL	1.1+03	1.4+01	Jour	NP/A,870-871,131	11	G.Noguere+	23211
<i>n</i> , γ		RP	2ZZZGEL		3.9+03	Jour	NP/A,870-871,131	11	G.Noguere+	23211

54

Xenon

132

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

<i>n,0</i>	RP	2ZZZGEL				Jour	NP/A,870-871,131	11	G.Noguere+	23211
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54 Xenon 134

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

<i>n,0</i>	RP	2ZZZGEL				Jour	NP/A,870-871,131	11	G.Noguere+	23211
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54 Xenon 136

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

<i>n,0</i>	RP	2ZZZGEL				Jour	NP/A,870-871,131	11	G.Noguere+	23211
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55 Caesium 133

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

<i>n,γ</i>	¹³⁴ Cs	CS	2TUKGZU	2.5-02	2.5-02	Jour	ANE,63,199	14	M.Karadag+	23202
<i>n,γ</i>	¹³⁴ Cs	RI	2TUKGZU		5.5-01	Jour	ANE,63,199	14	M.Karadag+	23202

58 Cerium

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

<i>d,x</i>	¹⁴⁰ La	CS	2BLGLVN	9.2+06	5.0+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295
<i>d,x</i>	¹³⁵ Ce	CS	2BLGLVN	2.0+07	5.0+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295
<i>d,x</i>	¹³⁷ Ce	CS	2BLGLVN	9.2+06	5.0+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295
<i>d,x</i>	¹³⁹ Ce	CS	2BLGLVN	1.6+06	5.0+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295
<i>d,x</i>	¹⁴¹ Ce	CS	2BLGLVN	1.6+06	5.0+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295
<i>d,x</i>	¹⁴³ Ce	CS	2BLGLVN	7.8+06	5.0+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295
<i>d,x</i>	¹³⁷ Pr	CS	2BLGLVN	4.3+07	4.9+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295
<i>d,x</i>	¹³⁸ Pr	CS	2BLGLVN	1.0+07	5.0+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295
<i>d,x</i>	¹³⁹ Pr	CS	2BLGLVN	1.6+07	5.0+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295
<i>d,x</i>	¹⁴² Pr	CS	2BLGLVN	6.2+06	5.0+07	Jour	NIM/B,316,22	13	F.Tarkanyi+	D4295

58 Cerium 140

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

<i>α,el</i>	¹⁴⁰ Ce	DA	2ITYPAD	1.8+07	3.7+07	Priv	GUAZZONI	94	P.Guazzoni+	O1953
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59 Praseodymium 141

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	¹⁴¹ Pr	DA	2ITYPAD	1.8+07	3.7+07	Priv	GUAZZONI	94	P.Guazzoni+	O1953

60 Neodymium 148

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	¹⁴⁹ Nd	CS	2TUKGZU	2.5-02	2.5-02	Jour	ANE,63,199	14	M.Karadag+	23202
n,γ	¹⁴⁹ Nd	RI	2TUKGZU		5.5-01	Jour	ANE,63,199	14	M.Karadag+	23202

62 Samarium 144

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	¹⁴¹ Nd	CS	2TUKCNA	1.4+07	1.5+07	Jour	NSE,174,202	13	I.A.Reyhancan+	23201

64 Gadolinium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,x	¹⁵⁶ Eu	CS	2BLGLVN	2.0+07	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
d,x	¹⁵¹ Gd	CS	2BLGLVN	4.4+07	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
d,x	¹⁵³ Gd	CS	2BLGLVN	2.2+07	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
d,x	¹⁵⁹ Gd	CS	2BLGLVN	5.4+06	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
d,x	¹⁵¹ Tb	CS	2BLGLVN	1.7+07	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
d,x	¹⁵² Tb	CS	2BLGLVN	1.3+07	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
d,x	¹⁵³ Tb	CS	2BLGLVN	1.7+07	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
d,x	¹⁵⁴ Tb	CS	2BLGLVN	5.4+06	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
d,x	¹⁵⁵ Tb	CS	2BLGLVN	5.4+06	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
d,x	¹⁵⁶ Tb	CS	2BLGLVN	5.4+06	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292

64 Gadolinium 158

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	¹⁵⁹ Gd	CS	2TUKGZU	2.5-02	2.5-02	Jour	ANE,63,199	14	M.Karadag+	23202
n,γ	¹⁵⁹ Gd	RI	2TUKGZU		5.5-01	Jour	ANE,63,199	14	M.Karadag+	23202

64 Gadolinium 160

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$d,2n$	¹⁶⁰ Tb	CS	2BLGLVN	5.4+06	4.9+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292

<i>d,x</i>	¹⁶⁰ Tb	CS	2BLGLVN	5.4+06	4.9+07	Jour	JRN,298,1385	13	F.Tarkanyi+	D4294
<i>d,x</i>	¹⁶¹ Tb	CS	2BLGLVN	5.4+06	4.6+07	Jour	ARI,83,25	14	F.Tarkanyi+	D4292
<i>d,x</i>	¹⁶¹ Tb	CS	2BLGLVN	5.4+06	4.6+07	Jour	JRN,298,1385	13	F.Tarkanyi+	D4294

65 Terbium 159

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,2n</i>	¹⁵⁹ Dy	CS	2BLGLVN	3.3+06	4.9+07	Jour	NIM/B,316,183	13	F.Tarkanyi+	D4296
<i>d,4n</i>	¹⁵⁷ Dy	CS	2BLGLVN	3.3+06	4.9+07	Jour	NIM/B,316,183	13	F.Tarkanyi+	D4296
<i>d,6n</i>	¹⁵⁵ Dy	CS	2BLGLVN	4.0+07	4.9+07	Jour	NIM/B,316,183	13	F.Tarkanyi+	D4296
<i>d,p</i>	¹⁶⁰ Tb	CS	2BLGLVN	3.3+06	4.9+07	Jour	NIM/B,316,183	13	F.Tarkanyi+	D4296
<i>d,x</i>	¹⁵³ Gd	CS	2BLGLVN	3.8+07	4.9+07	Jour	NIM/B,316,183	13	F.Tarkanyi+	D4296
<i>d,x</i>	¹⁵⁵ Tb	CS	2BLGLVN	3.8+07	4.9+07	Jour	NIM/B,316,183	13	F.Tarkanyi+	D4296
<i>d,x</i>	¹⁵⁶ Tb	CS	2BLGLVN	3.3+06	4.9+07	Jour	NIM/B,316,183	13	F.Tarkanyi+	D4296

66 Dysprosium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	¹⁵⁵ Tb	CS	2BLGVUB	1.5+07	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>p,x</i>	¹⁵⁶ Tb	CS	2BLGVUB	2.2+07	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>p,x</i>	¹⁶⁰ Tb	CS	2BLGVUB	8.2+06	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>p,x</i>	¹⁶¹ Tb	CS	2BLGVUB	4.3+06	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>p,x</i>	¹⁵⁵ Dy	CS	2BLGVUB	1.7+07	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>p,x</i>	¹⁵⁷ Dy	CS	2BLGVUB	1.5+07	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>p,x</i>	¹⁵⁹ Dy	CS	2BLGVUB	1.2+07	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>p,x</i>	¹⁵⁹ Ho	CS	2BLGVUB	1.2+07	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>p,x</i>	¹⁶¹ Ho	CS	2BLGVUB	4.3+06	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>p,x</i>	¹⁶² Ho	CS	2BLGVUB	4.3+06	3.5+07	Jour	ANE,62,375	13	F.Tarkanyi+	D4290
<i>d,x</i>	¹⁵⁵ Tb	CS	2BLGLVN	2.4+07	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291
<i>d,x</i>	¹⁵⁶ Tb	CS	2BLGLVN	2.7+07	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291
<i>d,x</i>	¹⁶⁰ Tb	CS	2BLGLVN	1.1+07	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291
<i>d,x</i>	¹⁶¹ Tb	CS	2BLGLVN	3.3+06	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291
<i>d,x</i>	¹⁵⁵ Dy	CS	2BLGLVN	2.4+07	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291
<i>d,x</i>	¹⁵⁷ Dy	CS	2BLGLVN	1.1+07	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291
<i>d,x</i>	¹⁵⁹ Dy	CS	2BLGLVN	3.3+06	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291
<i>d,x</i>	¹⁶⁵ Dy	CS	2BLGLVN	1.1+07	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291
<i>d,x</i>	¹⁶¹ Ho	CS	2BLGLVN	1.1+07	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291
<i>d,x</i>	¹⁶² Ho	CS	2BLGLVN	1.1+07	4.9+07	Jour	ARI,83,18	14	F.Tarkanyi+	D4291

73 Tantalum

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		CS	2GERZFK	2.0+05	1.0+07	Jour	EPJ/A,49,137	13	R.Hannaske+	23199

73

Tantalum

181

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	¹⁸² Ta	CS	2SPNSEU	Maxwl		Jour	NIM/A,727,1	13	J.Praena+	23200
p,x	⁷ Be	CS	2FR PAR	1.6+08	1.6+08	Jour	CR,259,1406	64	M.Ligonniere+	O2128

74

Tungsten

186

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	¹⁸⁶ Re	CS	3PAKGCL	5.0+06	7.0+07	Jour	RCA,98,385	10	M.Hussain+	D0730
$d,2n$	¹⁸⁶ Re	CS	3PAKGCL	6.0+06	5.0+07	Jour	RCA,98,385	10	M.Hussain+	D0730

75

Rhenium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,fis	⁷ Be	CS	2FR SAT	7.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁴⁶ Sc	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁵¹ Cr	CS	2FR SAT	2.6+09	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁵⁹ Fe	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁵⁸ Co	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁶⁰ Co	CS	2FR SAT	7.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁵⁷ Ni	CS	2FR SAT	2.6+09	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁶⁵ Zn	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁷⁵ Se	CS	2FR SAT	2.5+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁸⁴ Rb	CS	2FR SAT	3.3+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁸⁶ Rb	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁸⁵ Sr	CS	2FR SAT	3.3+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁸⁷ Y	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁸⁸ Y	CS	2FR SAT	2.5+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,fis	⁹⁵ Nb	CS	2FR SAT	2.5+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹⁰⁶ Ag	CS	2FR SAT	2.6+09	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹¹⁹ Te	CS	2FR SAT	2.6+09	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹²¹ Te	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹²⁵ Xe	CS	2FR SAT	2.6+09	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹²⁷ Xe	CS	2FR SAT	2.5+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹²⁹ Cs	CS	2FR SAT	7.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹³² Cs	CS	2FR SAT	2.5+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹³¹ Ba	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹³⁵ Ce	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹³⁷ Ce	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹³⁹ Ce	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹⁴⁵ Eu	CS	2FR SAT	3.3+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹⁴⁷ Eu	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹⁴⁸ Eu	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹⁴⁶ Gd	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹⁴⁷ Gd	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹⁴⁹ Gd	CS	2FR SAT	5.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹⁵¹ Tb	CS	2FR SAT	2.6+09	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
p,x	¹⁵² Tb	CS	2FR SAT	3.3+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139

<i>p,x</i>	¹⁵³ Tb	CS	2FR SAT	2.5+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁵⁵ Tb	CS	2FR SAT	2.6+09	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁵⁶ Tb	CS	2FR SAT	2.5+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁶⁶ Tm	CS	2FR SAT	2.5+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁶⁹ Yb	CS	2FR SAT	2.5+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁶⁹ Lu	CS	2FR SAT	1.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁷⁰ Lu	CS	2FR SAT	1.6+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁷¹ Lu	CS	2FR SAT	1.4+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁷³ Hf	CS	2FR SAT	1.2+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁷⁵ Hf	CS	2FR SAT	1.2+08	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁸³ Ta	CS	2FR SAT	8.2+07	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁸¹ Re	CS	2FR SAT	8.2+07	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁸² Re	CS	2FR SAT	8.2+07	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁸³ Re	CS	2FR SAT	7.8+07	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁸⁴ Re	CS	2FR SAT	7.8+07	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁸⁶ Re	CS	2FR SAT	8.2+07	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁸² Os	CS	2FR SAT	8.2+07	7.6+08	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁸³ Os	CS	2FR SAT	8.2+07	7.6+08	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139
<i>p,x</i>	¹⁸⁵ Os	CS	2FR SAT	7.8+07	2.6+09	Jour	NIM/B,298,19	13	S.A.M.Issa+	O2139

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Gold

197

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		CS	2GERZFK	1.1+05	1.0+07	Jour	EPJ/A,49,137	13	R.Hannaske+	23199
<i>p,n</i>	¹⁹⁷ Hg	CS	2SWTETH	6.7+06	6.7+06	Jour	HPA,25,599	52	F.Boehm+	O2127
<i>p,n</i>	¹⁹⁷ Hg	CS	3INDVEC	8.4+06	2.0+07	Jour	IMP/E,21,1250059	12	B.Satheesh+	D6204
<i>p,x</i>	⁷ Be	CS	2FR PAR	1.6+08	5.5+08	Jour	CR,259,1406	64	M.Lignoniere+	O2128

80

Mercury

200

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	¹⁹⁸ Hg	DAP	2GERMUU	2.5+07	2.5+07	Jour	PR/C,87,024318	13	C.Bernards+	O2140

80

Mercury

202

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	²⁰⁰ Hg	DAP	2GERMUN	2.5+07	2.5+07	Jour	PR/C,87,064321	13	C.Bernards+	O2163

80

Mercury

204

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	²⁰² Hg	DAP	2GERMUN	2.5+07	2.5+07	Jour	PR/C,87,064321	13	C.Bernards+	O2163

92

Uranium

235

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,fis		DA	2UK HAR		2.0+03	Jour	NP/A,167,225	May 71	N.J.Pattenden+	23212
<i>n</i> ,fis	Many	KE	2UK ALD	2.5-02	2.5-02	Rept	AWRE-O-43/67	Jun 67	E.E.Maslin+	21095
<i>n</i> ,fis	Many	NUF	2UK ALD	2.5-02	2.5-02	Rept	AWRE-O-43/67	Jun 67	E.E.Maslin+	21095
<i>n</i> ,fis		?	2UK HAR			Jour	NP/A,167,225	May 71	N.J.Pattenden+	23212
<i>n</i> ,fis		?	2UK ALD	2.5-02	2.5-02	Rept	AWRE-O-43/67	Jun 67	E.E.Maslin+	21095

92

Uranium

238

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,3 <i>n</i>	²³⁶ Np	CS	2FR PAR	3.2+07	1.5+08	Jour	CR,253,2221	61	M.Lefort	O2130
<i>p</i> ,fis		CS	1USAFSU	2.9+06	1.2+07	Jour	PR,131,2149	63	G.R.Choppin+	P0028

98

Californium

252

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
0,fis		FY	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	Many	FY	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis		KE	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	^{nat} G	KE	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	Many	KE	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	^{nat} G	KE	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	Many	KE	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	^{nat} G	KE	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	Many	KE	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis		NU	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	Many	NU	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis		NUF	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	Many	?	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	⁴ He	KE	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	⁴ He	NU	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213
0,fis	⁴ He	?	2FR SAC	Spont		Jour	PR/C,7,(1),373	73	G.K.Mehta+	23213