

Japan Charged-Particle Nuclear Reaction Data Group (JCPRG)

EXFOR : Recent Compilation List (Added in Apr 2004)

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Retrieval service is available at:

<http://www.jcprg.org/exfor/>

Quantity code

ALF	Alpha	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	Nu
D3A	Triple differential $d\Omega_1/d\Omega_2/dE'$	NUD	Nu delayed
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	Eta	TTD	Differential thick target yield, $d/d\Omega$
EVL	Evaluation	TT	Partial thick target yield

Special codes in outgoing particle field

abs	Absorption	fus	Fusion	non	Nonelastic	ths	Thermal scattering
el	Elastic	inel	Inelastic	sct	Scattering	tot	Total
f	Fission	incl	Inclusive	tcc	Total charge changing		

Special codes in incident energy field

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

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p, X + \pi$	^2H	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
α, el	^1H	DA	2FR PAR	1.0+06	2.5+06	Jour	NIM/B,83,47	93	V.Quillet+	O0817
α, el	^1H	DA	2AUSAUS	2.5+06	4.5+06	Jour	NIM/B,174,25	01	I.Bogdanovicradovic+	O0850
α, el	^1H	DA	3KORKOR	6.0+05	4.8+06	Jour	NIM/B,155,229	99	Chang-Shukkim+	O0858
α, el	^1H	?	2FR PAR	1.8+06	1.7+06	Jour	NIM/B,83,47	93	V.Quillet+	O0817
α, p	^4He	DA	2SF HLS	5.6+06	2.4+07	Jour	JAP,82,1983	97	A.Nurmela+	O0915
$^{19}\text{Ne}, \gamma$	^{20}Na	CS	2BLGLVN	2.7+06	3.2+06	Jour	PL/B,381,402	96	C.Michotte+	O0905
$^{197}\text{Au}, f$	^{38}Ar	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{39}Ar	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{40}Ar	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{41}Ar	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{42}Ar	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{40}K	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{41}K	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{42}K	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{43}K	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{44}K	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{42}Ca	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{43}Ca	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{44}Ca	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{45}Ca	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{46}Ca	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{47}Ca	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{44}Sc	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{45}Sc	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{46}Sc	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{47}Sc	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{48}Sc	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{49}Sc	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{46}Ti	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{47}Ti	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{48}Ti	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{49}Ti	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{50}Ti	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{51}Ti	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{52}Ti	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{48}V	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{49}V	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{50}V	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{51}V	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{52}V	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{53}V	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{54}V	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{50}Cr	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{51}Cr	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{52}Cr	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{53}Cr	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{54}Cr	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{55}Cr	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783
$^{197}\text{Au}, f$	^{56}Cr	CS	2GERGSI	1.6+11		Prog	GSI-2000-05	Sep 00	J.Benlliure+	O0783

$^{208}\text{Pb},x$	^{188}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{189}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{189}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{190}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{190}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{191}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{191}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{192}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{192}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{193}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{193}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{194}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{194}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{195}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{195}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{196}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{196}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{197}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{197}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{198}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{198}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{199}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{199}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{200}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{200}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{201}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{201}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{202}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{202}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{203}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{203}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{204}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{204}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{205}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{205}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{206}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{206}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833
$^{208}\text{Pb},x$	^{207}Pb	CS	2GERGSI	2.1+11	Jour	PRL,84,5736	00	W.Wlazlo+	O0769
$^{208}\text{Pb},x$	^{207}Pb	CS	2GERGSI	2.1+11	Jour	NP/A,686,481	01	T.Enqvist+	O0833

1

Hydrogen

2

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^1H	AMP	2GERBON	2.5+07		Jour	PR/C,66,(4),047001	Oct 02	J.Deng+	22814
p,d	incl	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
$p,e1$	^2H	DA	2ZZZCER	6.0+08		Jour	NP/A,262,413	76	J.Fain+	O0555
$p,n+p$	^1H	POD	1USALAS	5.0+08		Jour	PL/B,264,21	Jul 91	M.L.Barlett+	C0964
$p,X+\pi$	^2H	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
d,p	^3H	DA	2FR PAR	9.7+05		Jour	NIM/B,83,47	93	V.Quillet+	O0817
$\alpha,e1$	^2H	DA	2FR PAR	1.0+06	2.5+06	Jour	NIM/B,83,47	93	V.Quillet+	O0817
$^7\text{Be},n$	^8B	DAP	1USAMSU	1.8+08		Conf	98BELAIR,,908	Jun 98	C.F.Powell+	C0960
$^{19}\text{Ne},n$	^{20}Na	CS	2BLGLVN	9.0+06	1.9+07	Jour	PL/B,381,402	96	C.Michotte+	O0905
$^{208}\text{Pb},f$		CS	2GERGSI	2.1+11		Jour	NP/A,703,435	02	T.Enqvist+	O0921
$^{208}\text{Pb},f$	Many	CS	2GERGSI	2.1+11		Jour	NP/A,703,435	02	T.Enqvist+	O0921

⁵⁴ Co,tcc	CS	2GERGSI	2.4+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁵ Co,tcc	CS	2GERGSI	2.4+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵² Ni,tcc	CS	2GERGSI	2.3+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵³ Ni,tcc	CS	2GERGSI	2.3+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁴ Ni,tcc	CS	2GERGSI	2.4+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁵ Ni,tcc	CS	2GERGSI	2.4+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁶ Ni,tcc	CS	2GERGSI	2.5+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁷ Ni,tcc	CS	2GERGSI	2.5+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁷ Ni,x	Many	PY	2GERGSI	3.0+10	Jour	ZP/A,352,77	95	B.Blank+	O0952

2 Helium 3

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	³ He	DA	2ZZZCER	6.0+08		Jour	NP/A,262,413	76	J.Fain+	O0555
<i>p</i> ,el	³ He	DT	1USALAS	8.0+08		Jour	PR/C,65,034005	Mar 02	M.Geso+	C0866
<i>p</i> ,el	³ He	POD	1USALAS	8.0+08		Jour	PR/C,65,034005	Mar 02	M.Geso+	C0866

2 Helium 4

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	⁴ He	DA	2SF HLS	1.4+06	6.0+06	Jour	JAP,82,1983	97	A.Nurmela+	O0915
<i>p</i> ,el	⁴ He	DA	2SF HLS	1.6+06	2.7+06	Jour	NIM/B,136-138,77	98	A.Nurmela+	O0854
<i>p</i> ,el	⁴ He	DA	2ZZZCER	6.0+08		Jour	NP/A,262,413	76	J.Fain+	O0555

3 Lithium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,inel	^{nat} Li	PY	2GRCATH	1.0+06	4.1+06	Jour	NIM/B,152,12	99	A.Savidou+	O0861
<i>d</i> , γ	incl	PY	2FR LRM	7.0+05	2.0+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁴ N, γ	incl	PY	2SF HLS	2.8+07		Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁶ O, γ	incl	PY	2SF HLS	2.8+07	3.3+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

3 Lithium 6

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> , <i>d</i>	incl	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
<i>p</i> , η	incl	DAE	2FR SAC	9.0+08		Jour	ZP/A,344,345	93	E.Chiavassa+	O0914
<i>p</i> , <i>p</i> + <i>d</i>	⁴ He	D4A	2FR PAR	1.6+08		Jour	PR/C,7,165	73	D.Bachelier+	O0929
<i>p</i> ,X+ π	² H	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
<i>d</i> , α	⁴ He	CS	3CRORBZ	1.2+04	7.4+05	Jour	PR/C,63,055801	Apr 01	C.Spitaleri+	O0899
¹² C,el	⁶ Li	DA	2GERGAR	1.8+06	4.7+06	Jour	NIM/B,183,221	01	M.Mayer+	O0909
³⁵ Cl,el	⁶ Li	DA	3KORKOR	7.1+06	1.0+07	Jour	NIM/B,129,323	97	J.K.Kim+	O0862

3 Lithium 7

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,d	incl	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
p,γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
$p,X+\pi$	^2H	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
$^{12}\text{C},e\ell$	^7Li	DA	2GERGAR	2.9+06	5.4+06	Jour	NIM/B,183,221	01	M.Mayer+	O0909

3 Lithium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

4 Beryllium 7

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$d,n+p$	^7Be	DAP	1USAMSU	1.8+08		Conf	98BELAIR,,908	Jun 98	C.F.Powell+	C0960

4 Beryllium 9

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,α	^6Li	CS	2GERBOC	1.6+04	3.3+05	Jour	ZP/A,359,211	97	D.Zahnow+	O0898
p,α	^6Li	DA	2GERBOC	2.5+04	4.0+05	Jour	ZP/A,359,211	97	D.Zahnow+	O0898
p,α	^6Li	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,d	^8Be	CS	2GERBOC	1.6+04	3.3+05	Jour	ZP/A,359,211	97	D.Zahnow+	O0898
p,d	^8Be	DA	2GERBOC	2.5+04	4.0+05	Jour	ZP/A,359,211	97	D.Zahnow+	O0898
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
d,n	incl	PY	2FR PAR	2.0+08		Jour	NIM/B,160,315	00	N.Pauwels+	O0876
$^9\text{Be},^7\text{He}$	^{11}C	DAP	1USAMSU	3.6+08		Jour	PR/C,60,064322	99	J.A.Caggiano+	C0970
$^9\text{Be},^{10}\text{Li}$	^8B	DAP	1USAMSU	3.6+08		Jour	PR/C,60,064322	99	J.A.Caggiano+	C0970
$^{12}\text{C},\gamma$	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
$^{14}\text{N},\gamma$	incl	PY	2SF HLS	2.8+07		Jour	NIM/B,143,233	98	A.Seppala+	O0863
$^{16}\text{O},\gamma$	incl	PY	2SF HLS	2.8+07	3.3+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
$^{58}\text{Ni},x$	^{52}Fe	CS	2GERGSI	3.4+10		Jour	NP/A,587,229	95	M.Pfutzner+	O0944
$^{58}\text{Ni},x$	^{56}Ni	CS	2GERGSI	3.4+10		Jour	NP/A,587,229	95	M.Pfutzner+	O0944
$^{238}\text{U},x$	^{201}Hg	CS	2GERGSI	2.4+11		Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
$^{238}\text{U},x$	^{202}Hg	CS	2GERGSI	2.4+11		Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
$^{238}\text{U},x$	^{203}Hg	CS	2GERGSI	2.4+11		Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
$^{238}\text{U},x$	^{206}Hg	CS	2GERGSI	2.4+11		Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
$^{238}\text{U},x$	^{207}Hg	CS	2GERGSI	2.4+11		Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
$^{238}\text{U},x$	^{208}Hg	CS	2GERGSI	2.4+11		Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
$^{238}\text{U},x$	^{209}Hg	CS	2GERGSI	2.4+11		Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
$^{238}\text{U},x$	^{210}Hg	CS	2GERGSI	2.4+11		Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
$^{238}\text{U},x$	^{202}Tl	CS	2GERGSI	2.4+11		Jour	PL/B,444,32	98	M.Pfiltzner+	O0874

²³⁸ U,x	²⁰³ Tl	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁴ Tl	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁵ Tl	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁶ Tl	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁸ Tl	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁹ Tl	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹⁰ Tl	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹¹ Tl	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹² Tl	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁵ Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁶ Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁷ Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁸ Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁹ Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹¹ Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹² Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹³ Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹⁴ Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹⁵ Pb	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁸ Bi	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²⁰⁹ Bi	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹⁰ Bi	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹¹ Bi	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹⁴ Bi	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹⁵ Bi	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹⁶ Bi	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹⁷ Bi	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874
²³⁸ U,x	²¹⁸ Bi	CS	2GERGSI	2.4+11	Jour	PL/B,444,32	98	M.Pfiltzner+	O0874

5 Boron

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,γ</i>	incl	PY	2GRCATH	1.2+06	4.1+06	Jour	NIM/B,152,12	99	A.Savidou+	O0861
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>d,γ</i>	incl	PY	2FR LRM	7.0+05	2.0+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
¹² C,γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁴ N,γ	incl	PY	2SF HLS	2.8+07		Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁶ O,γ	incl	PY	2SF HLS	2.8+07	3.3+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

5 Boron 10

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,α</i>	⁷ Be	CS	2UK BIR	7.4+04	2.0+05	Jour	PM,46,824	55	G.G.Bach.D.J.Liversey	O0917
<i>p,el</i>	¹⁰ B	DA	1CANTMF	2.0+08		Jour	NP/A,532,583	91	P.R.Lewis+	O0773
<i>p,el</i>	¹⁰ B	DA	2ITYFIR	5.0+05	3.3+06	Jour	NIM/B,184,309	01	M.Chiari+	O0922
<i>p,inel</i>	¹⁰ B	DAP	1CANTMF	2.0+08		Jour	NP/A,532,583	91	P.R.Lewis+	O0773
<i>p,inel</i>	¹⁰ B	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>α,p</i>	¹³ C	DAP	2BLGBLG	4.0+06	5.0+06	Jour	NIM/B,118,224	96	G.Giorginis+	O0815

5 Boron 11

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,α</i>	⁸ Be	DAP	2GERGAR	1.7+06	2.7+06	Jour	NIM/B,143,244	98	M.Mayer+	O0864
<i>p,el</i>	¹¹ B	DA	2GERGAR	1.7+06	2.7+06	Jour	NIM/B,143,244	98	M.Mayer+	O0864
<i>p,el</i>	¹¹ B	DA	2ITYFIR	5.0+05	3.3+06	Jour	NIM/B,184,309	01	M.Chiari+	O0922
<i>p,n</i>	¹¹ C	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>α,p</i>	¹⁴ C	DAP	2BLGBLG	4.0+09	5.0+09	Jour	NIM/B,118,224	96	G.Giorginis+	O0815

6 Carbon 11

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,el</i>	^{nat} C	DA	3CPRFUD	1.8+03	9.1+03	Jour	NIM/B,86,225	94	Yefeng+	O0879
<i>α,el</i>	^{nat} C	DA	2SF HLS	7.0+05	2.5+06	Jour	NIM/B,12,447	85	E.Rauhala	O0881
<i>n,tot</i>		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRIEST,2,1643	May 97	U.J.Schrewe+	22507

6 Carbon 12

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,tot</i>		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRIEST,2,1643	May 97	U.J.Schrewe+	22507
<i>p,d</i>	incl	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
<i>p,el</i>	¹² C	DA	3AULAML	1.0+06	3.5+06	Jour	NIM/B,77,110	93	R.Amirikas+	D0107
<i>p,el</i>	¹² C	DA	2ITYFIR	3.4+05	3.0+06	Jour	NIM/B,136,86	98	S.Mazzoni+	O0852
<i>p,el</i>	¹² C	DA	2ITYMIL	3.6+07		Jour	NP/A,307,22	78	G.Bendiscioli+	O0832
<i>p,el</i>	¹² C	POD	2ITYMIL	3.6+07		Jour	NP/A,307,22	78	G.Bendiscioli+	O0832
<i>p,η</i>	incl	DAE	2FR SAC	9.0+08		Jour	ZP/A,344,345	93	E.Chiavassa+	O0914
<i>p,inel</i>	¹² C	DAP	1USABNL	1.0+09		Jour	NP/A,104,294	67	J.L.Friedes+	O0752
<i>p,inel</i>	¹² C	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,n</i>	¹² N	POD	2JPNOSA	8.0+07	5.0+07	Jour	NP/A,579,45	94	H.Sakai+	O0789
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,n+p</i>	¹¹ C	CS	2FR PAR	4.0+07	1.5+08	Jour	NP,39,447	62	H.Gauvin+	C0394
<i>p,n+p</i>	¹¹ C	POD	1USALAS	5.0+08		Jour	PL/B,264,21	Jul 91	M.L.Barlett+	C0964
<i>p,p</i>	incl	CSN	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,p</i>	incl	MLT	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,π⁻</i>	incl	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,π⁻</i>	incl	CSN	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,π⁻</i>	incl	DAE	4ZZZDUB	6.0+08		Jour	YF,26,966	77	Yu.A.Batusov+	O0831
<i>p,π⁺</i>	incl	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,π⁺</i>	incl	CSN	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,π⁺</i>	incl	DAE	4ZZZDUB	6.0+08		Jour	YF,26,966	77	Yu.A.Batusov+	O0831
<i>p,t</i>	incl	CS	1USACHI	2.0+06		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,t</i>	incl	CS	1USABNL	4.5+08		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,tot</i>		CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,X+p</i>	^{nat} Pp	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,X+p</i>	^{nat} Pn	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,X+π</i>	² H	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
<i>p,x</i>	⁷ Be	CS	2FR PAR	5.0+07	1.5+08	Jour	NP,39,447	62	H.Gauvin+	C0394
<i>d,γ</i>	incl	PY	2FR LRM	7.0+05	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875

d,p	^{13}C	DA	2FR PAR	9.7+05		Jour	NIM/B,83,47	93	V.Quillet+	O0817
d,tot		RP	1USAWIS	2.5+06	3.4+06	Jour	PR,104,1008	Nov 56	M.T.Mcellistrem+	C0965
α,el		RP	3AULCBR	3.2+06	9.1+06	Jour	NP/A,110,481	68	G.J.Clark+	O0888
α,el	^{12}C	DA	3AULCBR	2.8+06	6.5+06	Jour	NP/A,110,481	68	G.J.Clark+	O0888
α,el	^{12}C	DA	2FR LYO	4.0+06	4.6+06	Jour	NIM/B,113,284	96	R.Somatri+	D0097
α,el	^{12}C	DA	2ITYPAD	5.4+06	6.0+06	Jour	NIM/B,143,357	98	M.Berti+	O0890
$^6\text{He},2n+\alpha$	^{12}C	CS	1USAMSU	1.4+08		Jour	PR/C,65,034306	02	J.Wang+	C0867
$^6\text{Li},\alpha$	^{14}N	CSP	3INDIPB	3.0+06	1.2+07	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
$^6\text{Li},d$	^{16}O	DAP	1USAFSU	3.4+07	5.0+07	Jour	PR/C,67,044604	03	N.Keeley+	C0983
$^6\text{Li},d$	^{16}O	POD	1USAFSU	3.4+07	5.0+07	Jour	PR/C,67,044604	03	N.Keeley+	C0983
$^6\text{Li},n+p$	^{16}O	CSP	3INDIPB	3.9+06	1.2+07	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
$^6\text{Li},p$	^{17}O	CSP	3INDIPB	1.2+07	3.0+06	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
$^6\text{Li},p+\alpha$	^{13}C	CSP	3INDIPB	3.0+06	1.2+07	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
$^7\text{Li},2\alpha$	^{11}B	CS	3INDIPB	1.2+07	7.9+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},2\alpha$	^{11}B	CSP	3INDIPB	1.2+07	7.9+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},2n+p$	^{16}O	CS	3INDIPB	1.2+07	3.4+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},2n+p$	^{16}O	CSP	3INDIPB	4.4+06	1.2+07	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},\alpha$	^{15}N	CS	3INDIPB	1.2+07	3.4+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},\alpha$	^{15}N	CSP	3INDIPB	3.4+06	1.2+07	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},n$	^{18}F	CS	3INDIPB	1.2+07	3.4+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},n$	^{18}F	CSP	3INDIPB	3.4+06	1.2+07	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},n+\alpha$	^{14}N	CS	3INDIPB	1.2+07	5.9+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},n+\alpha$	^{14}N	CSP	3INDIPB	1.2+07	5.9+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},n+p$	^{17}O	CS	3INDIPB	1.2+07	3.4+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},n+p$	^{17}O	CSP	3INDIPB	3.9+06	1.2+07	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},p$	^{18}O	CS	3INDIPB	1.2+07	3.4+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^7\text{Li},p$	^{18}O	CSP	3INDIPB	3.4+06	1.2+07	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
$^9\text{Be},^{10}\text{Be}$	^{11}C	DAP	1USAMSU	3.6+08		Jour	PR/C,60,064322	99	J.A.Caggiano+	C0970
$^9\text{Be},^8\text{B}$	^{13}B	DAP	1USAMSU	3.6+08		Jour	PR/C,60,064322	99	J.A.Caggiano+	C0970
$^{12}\text{C},\gamma$	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
$^{12}\text{C},non$		CS	4ZZDUB	0.0+00		Jour	NP/A,348,518	80	V.D.Aksinenko+	O0779
$^{12}\text{C},non$		CS	2FR GRE	1.2+08	2.7+10	Jour	PL/B,159,15	85	S.Kox+	O0775
$^{12}\text{C},non$		CS	2FR GRE	3.6+08	1.0+09	Jour	NP/A,420,162	84	S.Kox+	O0776
$^{14}\text{N},\gamma$	incl	PY	2SF HLS	2.8+07		Jour	NIM/B,143,233	98	A.Seppala+	O0863
$^{16}\text{O},\gamma$	incl	PY	2SF HLS	2.8+07	3.3+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
$^{20}\text{Ne},non$		CS	2FR GRE	6.0+08		Jour	NP/A,420,162	84	S.Kox+	O0776
$^{20}\text{Ne},non$		CS	2FR GRE	6.3+08	6.1+09	Jour	PL/B,159,15	85	S.Kox+	O0775
$^{32}\text{S},el$	^{12}C	DA	2SF HLS	2.6+07	6.1+07	Jour	JAP,75,3273	94	J.Raisanen+	O0867
$^{35}\text{Cl},el$	^{12}C	DA	3KORKOR	3.6+06	1.1+07	Jour	NIM/B,129,323	97	J.K.Kim+	O0862
$^{36}\text{Ar},n$	incl	PY	2FR PAR	3.4+09		Jour	NIM/B,160,315	00	N.Pauwels+	O0876
$^{43}\text{V},tcc$		CS	2GERGSI	1.9+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{44}\text{V},tcc$		CS	2GERGSI	1.9+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{45}\text{V},tcc$		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{46}\text{V},tcc$		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{47}\text{V},tcc$		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{44}\text{Cr},tcc$		CS	2GERGSI	1.9+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{45}\text{Cr},tcc$		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{46}\text{Cr},tcc$		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{47}\text{Cr},tcc$		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{48}\text{Cr},tcc$		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{49}\text{Cr},tcc$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{46}\text{Mn},tcc$		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{47}\text{Mn},tcc$		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{48}\text{Mn},tcc$		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{49}\text{Mn},tcc$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{50}\text{Mn},tcc$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{51}\text{Mn},tcc$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945

⁴⁸ Fe,tcc	CS	2GERGSI	2.1+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁴⁹ Fe,tcc	CS	2GERGSI	2.2+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁰ Fe,tcc	CS	2GERGSI	2.2+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵¹ Fe,tcc	CS	2GERGSI	2.2+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵² Fe,tcc	CS	2GERGSI	2.3+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵³ Fe,tcc	CS	2GERGSI	2.3+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁰ Co,tcc	CS	2GERGSI	2.2+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵¹ Co,tcc	CS	2GERGSI	2.2+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵² Co,tcc	CS	2GERGSI	2.3+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵³ Co,tcc	CS	2GERGSI	2.3+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁴ Co,tcc	CS	2GERGSI	2.4+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁵ Co,tcc	CS	2GERGSI	2.4+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵² Ni,tcc	CS	2GERGSI	2.3+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵³ Ni,tcc	CS	2GERGSI	2.3+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁴ Ni,tcc	CS	2GERGSI	2.4+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁵ Ni,tcc	CS	2GERGSI	2.4+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁶ Ni,tcc	CS	2GERGSI	2.5+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁷ Ni,tcc	CS	2GERGSI	2.5+10	Jour	ZP/A,352,69	95	B.Blank+	O0945	
⁵⁷ Ni,x	Many	PY	2GERGSI	3.0+10	Jour	ZP/A,352,77	95	B.Blank+	O0952

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Carbon

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹³ N	POD	2JPNOSA	8.0+07	5.0+07	Jour	NP/A,579,45	94	H.Sakai+	O0789
<i>p,x</i>	⁷ Be	CS	2FR PAR	1.5+08	6.0+08	Jour	NAT,244,28	73	G.M.Raisbeck+	O0912
<i>p,x</i>	⁹ Be	?	2FR PAR	1.5+08	6.0+08	Jour	NAT,244,28	73	G.M.Raisbeck+	O0912
<i>p,x</i>	¹⁰ Be	?	2FR PAR	1.5+08	6.0+08	Jour	NAT,244,28	73	G.M.Raisbeck+	O0912
<i>α,el</i>	¹³ C	DA	3AULCBR	3.5+06	6.5+06	Jour	NP/A,110,637	68	G.W.Kerr+	O0886
<i>α,n</i>	¹⁶ O	DA	3AULCBR	3.6+06	6.2+06	Jour	NP/A,110,637	68	G.W.Kerr+	O0886
⁶ Li,2α	¹¹ B	CSP	3INDIPB	1.2+07	4.6+06	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
⁶ Li,2n+p	¹⁶ O	?	3INDIPB	1.2+07	4.6+06	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
⁶ Li,α	¹⁵ N	CSP	3INDIPB	1.2+07	3.0+06	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
⁶ Li,n	¹⁸ F	CSP	3INDIPB	1.2+07	3.0+06	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
⁶ Li,n+α	¹⁴ N	CSP	3INDIPB	3.0+06	1.2+07	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
⁶ Li,n+p	¹⁷ O	CSP	3INDIPB	3.0+06	1.2+07	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
⁶ Li,p	¹⁸ O	CSP	3INDIPB	1.2+07	3.0+06	Jour	NP/A,635,305	98	A.Mukherjee+	O0948
⁷ Li,2α	¹² B	CS	3INDIPB	1.2+07	3.9+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,2α	¹² B	CSP	3INDIPB	1.2+07	3.9+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,2n	¹⁸ F	CS	3INDIPB	1.2+07	3.0+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,2n	¹⁸ F	CSP	3INDIPB	3.0+06	1.2+07	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,2n+p	¹⁷ O	CS	3INDIPB	1.2+07	3.0+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,2n+p	¹⁷ O	CSP	3INDIPB	3.1+06	1.2+07	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,n+α	¹⁵ N	CS	3INDIPB	1.2+07	2.3+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,n+α	¹⁵ N	CSP	3INDIPB	2.3+06	1.2+07	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,n+p	¹⁸ O	CS	3INDIPB	1.2+07	2.3+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,n+p	¹⁸ O	CSP	3INDIPB	3.1+06	1.2+07	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,p	¹⁹ O	CS	3INDIPB	1.2+07	3.0+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946
⁷ Li,p	¹⁹ O	CSP	3INDIPB	1.2+07	3.0+06	Jour	NP/A,596,299	96	A.Mukherjee+	O0946

7 Nitrogen

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	incl	CS	1USACHI	2.0+06		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,t</i>	incl	CS	1USABNL	4.5+08		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,x</i>	⁷ Be	CS	2SWTPSI	4.0+07	6.0+07	Jour	NIM/B,113,470	96	Y.Parrat+	O0871
<i>p,x</i>	¹⁰ Be	CS	2SWTPSI	4.0+07	6.0+07	Jour	NIM/B,113,470	96	Y.Parrat+	O0871
α ,el	^{nat} N	DA	2SF HLS	1.4+06	2.3+06	Jour	NIM/B,12,447	85	E.Rauhala	O0881
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁴ N, γ	incl	PY	2SF HLS	2.8+07		Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁶ O, γ	incl	PY	2SF HLS	2.8+07	3.3+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRIEST,2,1643	May 97	U.J.Schrewe+	22507
<i>p,el</i>	¹⁴ N	DA	3CZRUJF	1.5+06	2.4+06	Jour	CZJ,41,921	91	V.Havranek+	D0105
<i>p,el</i>	¹⁴ N	DA	3ALGUAG	1.9+06	3.0+06	Jour	PL/B,24,287	67	M.Lambert+	O0885
<i>p,incl</i>	¹⁴ N	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,n</i>	¹⁴ O	CS	2BLGLVN	1.2+07	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,n</i>	¹⁴ O	PY	2BLGLVN	8.3+06	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,x</i>	¹¹ C	PY	2BLGLVN	6.9+06	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,x</i>	¹³ N	PY	2BLGLVN	1.4+07	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>d,γ</i>	incl	PY	2FR LRM	7.0+05	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
<i>d,p</i>	¹⁵ N	CSP	2GERBOC	5.0+05	1.5+06	Jour	NIM/B,136,72	98	H.Vanbebbber+	O0856
α ,el	¹⁴ N	DA	3CPRFUD	2.0+06	9.1+06	Jour	NIM/B,94,11	94	Fengye+	O0884
α ,el	¹⁴ N	DA	2UK BIR	2.0+07	2.3+07	Jour	ARS,63,35	67	J.M.Bolta+	D0074
α,p	¹⁷ O	DAP	2ZZZGEL	4.0+06	5.0+06	Jour	NIM/B,113,396	98	G.Giorginis+	O0873
α,p	¹⁷ O	DAP	3CPRFUD	5.7+06	7.5+06	Jour	NIM/B,149,390	99	Huizhongxu+	O0865
³² S,el	¹⁴ N	DA	2SF HLS	3.4+07	6.4+07	Jour	JAP,75,3273	94	J.Raisanen+	O0867

7 Nitrogen 15

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁵ O	CS	2BLGLVN	1.6+07	2.8+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,n</i>	¹⁵ O	PY	2BLGLVN	4.9+06	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,x</i>	¹¹ C	PY	2BLGLVN	2.0+07	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,x</i>	¹³ N	PY	2BLGLVN	2.0+07	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>d,α</i>	¹³ C	DAP	3NZLNZH	3.9+05	2.0+06	Jour	NIM/B,108,367	96	I.C.Vickridge+	O0823

8 Oxygen

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α ,el	^{nat} O	DA	3CPRFUD	3.5+06	8.9+06	Jour	NIM/B,83,449	93	Huan-Shengcheng+	O0877
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRiest,2,1643	May 97	U.J.Schrewe+	22507
<i>p,el</i>	¹⁶ O	DA	3AULAML	1.0+06	3.6+06	Jour	NIM/B,77,110	93	R.Amirikas+	D0107
<i>p,inel</i>	¹⁶ O	DAP	1USABNL	1.0+09		Jour	NP/A,104,294	67	J.L.Friedes+	O0752
<i>p,inel</i>	¹⁶ O	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,t</i>	incl	CS	1USACHI	2.0+06		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,t</i>	incl	CS	1USABNL	4.5+08		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>d,α</i>	¹⁴ N	DA	3POLWWA	7.6+05	9.5+05	Jour	NIM,111,605	73	A.Turos+	D0106
<i>d,γ</i>	incl	PY	2FR LRM	7.0+05	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
<i>d,p</i>	¹⁷ O	DAP	3POLWWA	7.6+05	9.6+05	Jour	PSS,16,213	73	A.Turos+	D0098
<i>d,p</i>	¹⁷ O	DAP	2FR PAR	8.6+05		Jour	NIM/B,83,47	93	V.Quillet+	O0817
<i>α,el</i>	¹⁶ O	DA	3CPRFUD	2.0+06	9.0+06	Jour	NIM/B,100,524	95	Z.Y.Zhou+	O0903
⁶ Li,α	¹⁸ F	CS	3INDIPB	4.1+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li,α	¹⁸ F	CSP	3INDIPB	4.1+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li, <i>n</i>	²¹ Na	CS	3INDIPB	4.1+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li, <i>n</i>	²¹ Na	CSP	3INDIPB	4.1+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li, <i>n+α</i>	¹⁷ F	CS	3INDIPB	1.0+07	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li, <i>n+α</i>	¹⁷ F	CSP	3INDIPB	1.0+07	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li, <i>n+p</i>	²⁰ Ne	CS	3INDIPB	5.0+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li, <i>n+p</i>	²⁰ Ne	CSP	3INDIPB	5.0+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li, <i>p</i>	²¹ Ne	CS	3INDIPB	4.1+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li, <i>p</i>	²¹ Ne	CSP	3INDIPB	4.1+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁶ Li, <i>p+α</i>	¹⁷ O	CSP	3INDIPB	5.0+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li,2α	¹⁵ N	CSP	3INDIPB	7.0+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li,2 <i>n</i>	²¹ Na	CS	3INDIPB	6.9+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li,2 <i>n</i>	²¹ Na	CSP	3INDIPB	6.9+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li,2 <i>n+p</i>	²⁰ Ne	CSP	3INDIPB	3.8+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li,α	¹⁹ F	CS	3INDIPB	3.8+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li,α	¹⁹ F	CSP	3INDIPB	3.8+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li,el	¹⁶ O	DA	2SF HLS	2.8+06	6.2+06	Jour	NIM/B,35,7	88	E.Rauhala+	O0869
⁷ Li, <i>n</i>	²² Na	CS	3INDIPB	3.8+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li, <i>n</i>	²² Na	CSP	3INDIPB	3.8+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li, <i>n+α</i>	¹⁸ F	CS	3INDIPB	6.9+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li, <i>n+α</i>	¹⁸ F	CSP	3INDIPB	6.9+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li, <i>n+p</i>	²¹ Ne	CS	3INDIPB	3.8+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li, <i>n+p</i>	²¹ Ne	CSP	3INDIPB	3.8+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li, <i>p</i>	²² Ne	CS	3INDIPB	3.8+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li, <i>p</i>	²² Ne	CSP	3INDIPB	3.8+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li, <i>p+α</i>	¹⁸ O	CS	3INDIPB	7.0+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
⁷ Li, <i>p+α</i>	¹⁸ O	CSP	3INDIPB	7.0+06	1.2+07	Jour	NP/A,645,13	99	A.Mukherjee+	O0949
¹² C,γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁴ N,γ	incl	PY	2SF HLS	2.8+07		Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁶ O,γ	incl	PY	2SF HLS	2.8+07	3.3+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
³² S,el	¹⁶ O	DA	2SF HLS	3.0+07	6.2+07	Jour	JAP,75,3273	94	J.Raisanen+	O0867
³⁵ Cl,el	¹⁶ O	DA	3KORKOR	1.0+07	4.1+06	Jour	NIM/B,129,323	97	J.K.Kim+	O0862

8 Oxygen 18

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,α</i>	¹⁵ N	DA	2NEDUTR	1.7+06	1.8+06	Jour	NIM/B,35,135	88	P.F.A.Alkemade+	O0816
<i>p,n</i>	¹⁸ F	CS	2BLGLVN	1.1+07	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,n</i>	¹⁸ F	PY	2BLGLVN	2.9+06	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,x</i>	¹³ N	PY	2BLGLVN	2.2+07	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916

9 Fluorine 19

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,α</i>	¹⁶ O	CSP	2UK HAR	3.3+05	3.5+05	Jour	NIM/A,307,353	91	S.Croft	O0913
<i>p,α</i>	¹⁶ O	DAP	2UK HAR	3.4+05		Jour	NIM/A,307,353	91	S.Croft	O0913
<i>p,α</i>	¹⁶ O	PY	2GRCATH	1.0+06	4.0+06	Jour	NIM/B,152,12	99	A.Savidou+	O0861
<i>p,α</i>	¹⁶ O	PY	2UK HAR	3.4+05		Jour	NIM/A,307,353	91	S.Croft	O0913
<i>p,el</i>	¹⁹ F	DA	3CRORBZ	2.5+06	4.8+06	Jour	NIM/B,79,524	93	I.Bogdanovic+	D0102
<i>p,γ</i>	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,inel</i>	¹⁹ F	CSP	2PRTLFE	8.2+05	2.7+06	Jour	NIM/B,161,186	00	A.P.Jesus+	O0859
<i>p,inel</i>	¹⁹ F	PY	2GRCATH	1.8+06	4.1+06	Jour	NIM/B,152,12	99	A.Savidou+	O0861
<i>p,n</i>	¹⁹ Ne	CS	2BLGLVN	5.8+06	2.9+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,n</i>	¹⁹ Ne	PY	2BLGLVN	6.8+06	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>p,x</i>	¹⁵ O	PY	2BLGLVN	9.9+06	3.0+07	Jour	PR/C,42,748	90	S.W.Kitwanga+	O0916
<i>d,α</i>	¹⁷ O	CSP	3EGYCAI	1.1+06	1.9+06	Jour	NP,61,282	65	A.Z.El-Behay+	D0071
<i>d,α</i>	¹⁷ O	DAP	3EGYCAI	1.0+06	2.4+06	Jour	NP,61,282	65	A.Z.El-Behay+	D0071
<i>d,γ</i>	incl	PY	2FR LRM	7.0+05	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
<i>d,p</i>	²⁰ F	CSP	3EGYCAI	8.5+05	2.5+06	Jour	NP,56,224	64	A.Z.El-Behay+	D0072
<i>d,p</i>	²⁰ F	DAP	3EGYCAI	8.6+05	3.5+06	Jour	NP,56,224	64	A.Z.El-Behay+	D0072
<i>α,el</i>	¹⁹ F	DA	3CPRFUD	1.6+06	5.0+06	Jour	NIM/B,85,47	94	Chenghuan-Sheng+	O0883
⁶ Li, <i>el</i>	¹⁹ F	DA	3CRORBZ	2.5+06	7.0+06	Jour	NIM/B,136,81	98	Z.Pastuovic+	O0855
¹² C, <i>γ</i>	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁴ N, <i>γ</i>	incl	PY	2SF HLS	2.8+07		Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁶ O, <i>γ</i>	incl	PY	2SF HLS	2.8+07	3.3+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
³⁵ Cl, <i>el</i>	¹⁹ F	DA	3KORKOR	9.9+06	5.0+06	Jour	NIM/B,129,323	97	J.K.Kim+	O0862

10 Neon 20

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,α</i>	¹⁸ F	CSP	3ALGALG	2.0+06	3.2+06	Jour	JP/C,31,205	70	C.Morand+	D0091
<i>d,α</i>	¹⁸ F	DAP	3ALGALG	2.0+06	3.2+06	Jour	JP/C,31,205	70	C.Morand+	D0091
¹² C, <i>non</i>		CS	4ZZZDUB	0.0+00		Jour	NP/A,348,518	80	V.D.Aksinenko+	O0779

10 Neon 22

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,α</i>	²⁰ F	CSP	3ALGALG	2.0+06	3.0+06	Jour	JP/C,31,205	70	C.Morand+	D0091

11 Sodium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

11 Sodium 22

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,γ	^{23}Mg	CS	2GERBOC	2.0+05	6.2+05	Jour	NP/A,601,168	96	F.Stegmueller+	O0894
$^3\text{He},d$	^{23}Mg	DAP	2GERMUN	3.0+07		Jour	NP/A,591,227	95	S.Schmidt+	O0893

11 Sodium 23

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,α		RP	1USATNL	3.4+05		Jour	PR/C,65,064609	03	C.Rowland+	C0940
p,α		RP	3SAFPOT	9.9+05	2.1+06	Jour	NP/A,185,625	72	M.A.Meyer+	D0100
p,γ		RP	3SAFPOT	9.9+05	2.1+06	Jour	NP/A,185,625	72	M.A.Meyer+	D0100
p,γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,inel		RP	3SAFPOT	9.9+05	2.1+06	Jour	NP/A,185,625	72	M.A.Meyer+	D0100
p,inel	^{23}Na	PY	2GRCATH	1.2+06	4.1+06	Jour	NIM/B,152,12	99	A.Savidou+	O0861
d,γ	incl	PY	2FR LRM	7.0+05	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
d,p	^{24}Na	CSP	3EGYCAI	1.4+06	2.5+06	Jour	NP,74,225	65	A.Z.El-Behay+	D0077
d,p	^{24}Na	DAP	3EGYCAI	1.0+06	2.5+06	Jour	NP,74,225	65	A.Z.El-Behay+	D0077
α,el	^{23}Na	DA	3CPRFUD	2.0+06	6.0+06	Jour	NIM/B,56,749	91	Chenghuan-Sheng+	O0882
$^{12}\text{C},\gamma$	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

12 Magnesium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,tot		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRiest,2,1643	May 97	U.J.Schrewe+	22507
p,γ	incl	PY	2GRCATH	1.2+06	4.1+06	Jour	NIM/B,152,12	99	A.Savidou+	O0861
p,t	incl	CS	1USACHI	2.0+06		Jour	PR,101,1557	56	L.A.Currie+	C0836
d,γ	incl	PY	2FR LRM	1.0+06	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
α,el	^{nat}Mg	DA	3CPRFUD	2.0+06	8.4+06	Jour	NIM/B,85,47	94	Chenghuan-Sheng+	O0883
α,el	^{nat}Mg	DA	2SF HLS	7.0+05	2.5+06	Jour	NIM/B,33,628	88	E.Rauhala+	O0878
$^{12}\text{C},\gamma$	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

12 Magnesium 24

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

p, inel	^{24}Mg	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
$p, p+\alpha$	^{20}Ne	D4A	2FR PAR	1.6+08		Jour	PR/C,7,165	73	D.Bachelier+	O0929

12

Magnesium

26

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

p, inel	^{26}Mg	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
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13

Aluminium

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

n, tot		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRiest,2,1643	May 97	U.J.Schrewe+	22507
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13

Aluminium

27

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

n, α	incl	CSP	2BLGLVN	3.2+07	6.3+07	Jour	PMB,44,(1),1	99	S.Benck+	22811
n, α	incl	KER	2BLGLVN	6.3+07		Jour	PMB,44,(1),1	99	S.Benck+	22811
n, α	^{24}Na	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
n, α	^{24}Na	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
n, d	incl	CSP	2BLGLVN	2.8+07	6.3+07	Jour	PMB,44,(1),1	99	S.Benck+	22811
n, d	incl	KER	2BLGLVN	6.3+07		Jour	PMB,44,(1),1	99	S.Benck+	22811
n, p	incl	CSP	2BLGLVN	2.8+07	6.3+07	Jour	PMB,44,(1),1	99	S.Benck+	22811
n, p	incl	KER	2BLGLVN	6.3+07		Jour	PMB,44,(1),1	99	S.Benck+	22811
n, t	incl	CSP	2BLGLVN	3.4+07	6.3+07	Jour	PMB,44,(1),1	99	S.Benck+	22811
n, t	incl	KER	2BLGLVN	6.3+07		Jour	PMB,44,(1),1	99	S.Benck+	22811
n, tot		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRiest,2,1643	May 97	U.J.Schrewe+	22507
n, tot		KER	2BLGLVN	6.3+07		Jour	PMB,44,(1),1	99	S.Benck+	22811
p, α		RP	3SAFPOT	1.2+06	2.5+06	Jour	NP/A,250,235	73	M.A.Meyer+	D0101
p, d	incl	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
p, el	^{27}Al	DA	2ITYMIL	3.6+07		Jour	NP/A,307,22	78	G.Bendiscioli+	O0832
p, el	^{27}Al	DA	2ITYFIR	7.8+05	3.0+06	Jour	NIM/B,174,259	01	M.Chiarì+	O0851
p, el	^{27}Al	POD	2ITYMIL	3.6+07		Jour	NP/A,307,22	78	G.Bendiscioli+	O0832
p, γ		RP	3SAFPOT	3.3+05	2.5+06	Jour	NP/A,250,235	73	M.A.Meyer+	D0101
p, γ	incl	PY	2GRCATH	1.0+06	4.1+06	Jour	NIM/B,152,12	99	A.Savidou+	O0861
p, γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p, γ	incl	TTD	1USAOHO	1.8+06	4.0+06	Jour	NIM/A,505,5	03	C.L.Fink+	C0957
p, inel		RP	3SAFPOT	1.2+06	2.2+06	Jour	NP/A,250,235	73	M.A.Meyer+	D0101
p, n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p, π^-	incl	DAE	4ZZZDUB	6.0+08		Jour	YF,26,966	77	Yu.A.Batusov+	O0831
p, π^+	incl	DAE	4ZZZDUB	6.0+08		Jour	YF,26,966	77	Yu.A.Batusov+	O0831
p, t	incl	CS	1USACHI	2.0+06		Jour	PR,101,1557	56	L.A.Currie+	C0836
p, t	incl	CS	1USABNL	4.5+08		Jour	PR,101,1557	56	L.A.Currie+	C0836
$p, X+\pi$	^2H	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
p, x	Many	CS	2FR SAC	1.9+08		Jour	PRL,35,773	75	O.Artun+	O0807
p, x	^{22}Na	CS	2FR PAR	4.0+07	1.5+08	Jour	NP,39,447	62	H.Gauvin+	C0394
p, x	^{24}Na	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titarengo+	O0900

p,x	^{24}Na	CS	2FR PAR	6.0+07	1.5+08	Jour	NP,39,447	62	H.Gauvin+	C0394
d,γ	incl	PY	2FR LRM	1.4+06	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
α,el	^{27}Al	DA	2SF HLS	1.0+06	2.4+06	Jour	NIM/B,40/41,790	89	E.Rauhala	O0880
α,el	^{27}Al	DA	3CPRFUD	2.1+06	6.1+06	Jour	NIM/B,56,749	91	Chenghuan-Sheng+	O0882
α,el	^{27}Al	DA	3CPRFUD	2.1+06	9.0+06	Jour	NIM/B,85,47	94	Chenghuan-Sheng+	O0883
$^6\text{He},2n+\alpha$	^{27}Al	CS	1USAMSU	1.4+08		Jour	PR/C,65,034306	02	J.Wang+	C0867
$^6\text{Li},\text{el}$	^{27}Al	DA	2SF HLS	4.0+06	8.0+06	Jour	NIM/B,155,211	99	A.Nurmela+	O0857
$^7\text{Li},\text{el}$	^{27}Al	DA	2SF HLS	3.4+06	8.0+06	Jour	JAP,75,642	94	E.Rauhala+	O0866
$^7\text{Li},\text{el}$	^{27}Al	DA	2SF HLS	4.0+06	7.9+06	Jour	NIM/B,155,211	99	A.Nurmela+	O0857
$^{12}\text{C},\text{el}$	^{27}Al	DA	2SF HLS	7.8+06	1.7+07	Jour	JAP,75,642	94	E.Rauhala+	O0866
$^{12}\text{C},\gamma$	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
$^{12}\text{C},\text{non}$		CS	2ZZZCER	1.0+09		Jour	NP/A,420,162	84	S.Kox+	O0776
$^{12}\text{C},\text{non}$		CS	2FR GRE	3.7+08	3.5+09	Jour	PL/B,159,15	85	S.Kox+	O0775
$^{14}\text{N},\text{el}$	^{27}Al	DA	2SF HLS	7.9+06	2.1+07	Jour	JAP,75,642	94	E.Rauhala+	O0866
$^{16}\text{O},\text{el}$	^{27}Al	DA	2SF HLS	1.2+07	2.5+07	Jour	JAP,75,642	94	E.Rauhala+	O0866
$^{20}\text{Ne},\text{non}$		CS	2FR GRE	6.0+08		Jour	NP/A,420,162	84	S.Kox+	O0776
$^{27}\text{Al},\text{el}$	^{27}Al	DA	3BZLUSP	5.3+07	7.0+07	Jour	PR/C,58,3445	98	A.Zerwekh+	O0951
$^{27}\text{Al},\text{inel}$	^{27}Al	CSP	3BZLUSP	5.5+07	6.1+07	Jour	PR/C,58,3445	98	A.Zerwekh+	O0951
$^{44}\text{V},\text{tcc}$		CS	2GERGSI	1.9+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{45}\text{V},\text{tcc}$		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{46}\text{V},\text{tcc}$		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{47}\text{V},\text{tcc}$		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{46}\text{Cr},\text{tcc}$		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{47}\text{Cr},\text{tcc}$		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{48}\text{Cr},\text{tcc}$		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{49}\text{Cr},\text{tcc}$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{48}\text{Mn},\text{tcc}$		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{49}\text{Mn},\text{tcc}$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{50}\text{Mn},\text{tcc}$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{51}\text{Mn},\text{tcc}$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{50}\text{Fe},\text{tcc}$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{51}\text{Fe},\text{tcc}$		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{52}\text{Fe},\text{non}$		CS	2GERGSI	2.5+10		Jour	NP/A,587,229	95	M.Pfutzner+	O0944
$^{52}\text{Fe},\text{tcc}$		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{52}\text{Fe},x$	^{50}Fe	CS	2GERGSI	2.5+10		Jour	NP/A,587,229	95	M.Pfutzner+	O0944
$^{52}\text{Fe},x$	^{51}Fe	CS	2GERGSI	2.5+10		Jour	NP/A,587,229	95	M.Pfutzner+	O0944
$^{53}\text{Fe},\text{tcc}$		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{52}\text{Co},\text{tcc}$		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{53}\text{Co},\text{tcc}$		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{54}\text{Co},\text{tcc}$		CS	2GERGSI	2.4+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{55}\text{Co},\text{tcc}$		CS	2GERGSI	2.4+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{54}\text{Ni},\text{tcc}$		CS	2GERGSI	2.4+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{55}\text{Ni},\text{tcc}$		CS	2GERGSI	2.4+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{56}\text{Ni},\text{non}$		CS	2GERGSI	2.6+10		Jour	NP/A,587,229	95	M.Pfutzner+	O0944
$^{56}\text{Ni},\text{tcc}$		CS	2GERGSI	2.5+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{56}\text{Ni},x$	^{54}Ni	CS	2GERGSI	2.6+10		Jour	NP/A,587,229	95	M.Pfutzner+	O0944
$^{56}\text{Ni},x$	^{55}Ni	CS	2GERGSI	2.6+10		Jour	NP/A,587,229	95	M.Pfutzner+	O0944
$^{57}\text{Ni},\text{tcc}$		CS	2GERGSI	2.5+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
$^{57}\text{Ni},x$	Many	PY	2GERGSI	3.0+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
$^{58}\text{Ni},x$	^{57}Ni	CS	2GERGSI	3.7+10		Jour	NP/A,587,229	95	M.Pfutzner+	O0944

14 Silicon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRiest,2,1643	May 97	U.J.Schrewe+	22507
<i>p,el</i>	^{nat} Si	DA	3AULAML	1.1+06	3.6+06	Jour	NIM/B,77,110	93	R.Amirikas+	D0107
<i>p,el</i>	^{nat} Si	DA	2UK CRN	8.0+05	1.8+06	Jour	NIM/B,161,136	00	M.J.F.Healy+	O0853
<i>p,γ</i>	incl	PY	2GRCATH	3.0+06	4.1+06	Jour	NIM/B,152,12	99	A.Savidou+	O0861
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>d,γ</i>	incl	PY	2FR LRM	1.0+06	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
<i>α,el</i>	^{nat} Si	DA	2SF HLS	1.5+06	2.2+06	Jour	NIM/B,12,447	85	E.Rauhala	O0881
<i>α,el</i>	^{nat} Si	DA	3CPRFUD	2.0+06	9.0+06	Jour	NIM/B,85,47	94	Chenghuan-Sheng+	O0883
<i>α,el</i>	^{nat} Si	DA	2FR LYO	3.8+06	4.6+06	Jour	NIM/B,113,284	96	R.Somatri+	D0097
⁶ Li,el	^{nat} Si	DA	2SF HLS	4.5+06	7.8+06	Jour	NIM/B,155,211	99	A.Nurmela+	O0857
⁷ Li,el	^{nat} Si	DA	2SF HLS	4.5+06	7.8+06	Jour	NIM/B,155,211	99	A.Nurmela+	O0857
⁷ Li,el	^{nat} Si	DA	2SF HLS	4.5+06	7.8+06	Jour	JAP,75,642	94	E.Rauhala+	O0866
¹² C,el	^{nat} Si	DA	2SF HLS	8.0+06	1.8+07	Jour	JAP,75,642	94	E.Rauhala+	O0866
¹² C,γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹² C,non		CS	4ZZZDUB	0.0+00		Jour	NP/A,348,518	80	V.D.Aksinenko+	O0779
¹⁴ N,el	^{nat} Si	DA	2SF HLS	7.9+06	2.2+07	Jour	JAP,75,642	94	E.Rauhala+	O0866
¹⁶ O,el	^{nat} Si	DA	2SF HLS	1.6+07	2.6+07	Jour	JAP,75,642	94	E.Rauhala+	O0866
<i>n,tot</i>		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRiest,2,1643	May 97	U.J.Schrewe+	22507
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

14 Silicon 28

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,inel</i>	²⁸ Si	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,inel</i>	²⁸ Si	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,p+α</i>	²⁴ Mg	D4A	2FR PAR	1.6+08		Jour	PR/C,7,165	73	D.Bachelier+	O0929
<i>p,x</i>	²⁰ Ne	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²¹ Ne	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²² Ne	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²³ Na	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²⁴ Mg	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²⁵ Mg	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²⁶ Mg	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²⁵ Al	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²⁶ Al	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²⁷ Al	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>p,x</i>	²⁷ Si	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>α,el</i>	²⁸ Si	DA	3SAFNAC	4.9+06	1.2+07	Jour	ZP/A,325,175	86	J.J.Lawrie+	O0950

14 Silicon 29

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2p</i>	²⁸ Mg	CS	4RUSRI	1.5+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424

14

Silicon

30

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,inel	³⁰ Si	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

15

Phosphorus

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> , <i>n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

15

Phosphorus

31

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	³¹ P	DA	2FR FR	1.0+06	1.9+06	Jour	NP,40,67	63	J.Cohen-Ganouna+	O0887
<i>p</i> , γ	incl	PY	2GRCATH	1.8+06	4.1+06	Jour	NIM/B,152,12	99	A.Savidou+	O0861
<i>p</i> ,inel	³¹ P	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p</i> , <i>x</i>	Many	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

16

Sulphur

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> , γ	incl	PY	2FR LRM	3.4+06	1.8+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
α ,el	^{nat} S	DA	2SF HLS	1.5+06	2.7+06	Jour	NIM/B,33,628	88	E.Rauhala+	O0878
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
<i>p</i> , <i>n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

16

Sulphur

32

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,inel	³² S	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p</i> , <i>x</i>	Many	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
<i>d</i> , <i>p</i>	³³ S	DAP	2UK UK	1.0+06	2.7+06	Jour	NIM/B,136/138,66	98	M.J.F.Healy+	O0822
α , <i>p</i>	³⁵ Cl	DAP	2GERFRK	6.0+06	1.2+07	Jour	NIM/B,113,399	96	M.Soltani-Farshi+	O0870
¹² C,el	³² S	DA	2SF HLS	1.7+07	2.3+07	Jour	JAP,77,1762	95	J.Raisanen+	O0868
¹⁴ N,el	³² S	DA	2SF HLS	2.2+07	2.8+07	Jour	JAP,77,1762	95	J.Raisanen+	O0868
¹⁶ O,el	³² S	DA	2SF HLS	2.5+07	3.1+07	Jour	JAP,77,1762	95	J.Raisanen+	O0868

17 Chlorine

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	^{nat} Cl	DA	3CRORBZ	2.5+06	4.8+06	Jour	NIM/B,79,524	93	I.Bogdanovic+	D0102
<i>d</i> , γ	incl	PY	2FR LRM	1.8+06	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
α ,el	^{nat} Cl	DA	3CPRFUD	2.0+06	8.7+06	Jour	NIM/B,85,47	94	Chenghuan-Sheng+	O0883
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
<i>p</i> , <i>n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

17 Chlorine 35

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> , γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

18 Argon 40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	⁴⁰ Ar	DA	2FR FR	1.0+06	1.9+06	Jour	NP,40,82	63	J.Cohen-Ganouna+	O0889
<i>p</i> , <i>x</i>	³⁶ Cl	CS	2SWTPSI	4.0+07	6.0+07	Jour	NIM/B,113,470	96	Y.Parrat+	O0871

19 Potassium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> , γ	incl	PY	2FR LRM	1.8+06	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
<i>p</i> , <i>n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

19 Potassium 39

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> , γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

20 Calcium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> , <i>n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p</i> , <i>x</i>	Many	PY	2ZZZCER	6.0+08		Jour	PS,34,578	86	T.Bjornstad+	O0834
<i>d</i> , γ	incl	PY	2FR LRM	2.2+06	3.4+06	Jour	NIM/B,168,305	00	Z.Elekes+	O0875
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

20

Calcium

40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
π^- ,x	Many	CS	2FR SAC	0.0+00		Jour	PRL,35,773	75	O.Artun+	O0807
p,γ		RP	1USAANL	4.1+06		Jour	NP/A,718,239C	03	M.Paul+	C0966
p ,inel	^{40}Ca	CS	2FR SAC	1.1+08	6.0+08	Jour	PRL,35,773	75	O.Artun+	O0807
p ,inel	^{40}Ca	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p ,n	^{40}Sc	POD	2JPNOSA	8.0+07		Jour	NP/A,579,45	94	H.Sakai+	O0789
p , $p+\alpha$	^{36}Ar	D4A	2FR PAR	1.6+08		Jour	PR/C,7,165	73	D.Bachelier+	O0929
p ,x	^{20}Ne	CS	2FR SAC	6.0+08		Jour	PRL,35,773	75	O.Artun+	O0807
p ,x	^{24}Mg	CS	2FR SAC	6.0+08		Jour	PRL,35,773	75	O.Artun+	O0807
p ,x	^{28}Si	CS	2FR SAC	1.1+08	6.0+08	Jour	PRL,35,773	75	O.Artun+	O0807
p ,x	^{32}S	CS	2FR SAC	1.1+08	6.0+08	Jour	PRL,35,773	75	O.Artun+	O0807
p ,x	^{36}Ar	CS	2FR SAC	1.1+08	6.0+08	Jour	PRL,35,773	75	O.Artun+	O0807
p ,x	^{37}Ar	CS	2FR SAC	1.1+08	6.0+08	Jour	PRL,35,773	75	O.Artun+	O0807
p ,x	^{38}Ar	CS	2FR SAC	1.1+08	6.0+08	Jour	PRL,35,773	75	O.Artun+	O0807
p ,x	^{38}K	CS	2FR SAC	1.1+08	6.0+08	Jour	PRL,35,773	75	O.Artun+	O0807
p ,x	^{39}K	CS	2FR SAC	1.1+08	6.0+08	Jour	PRL,35,773	75	O.Artun+	O0807
p ,x	^{39}Ca	CS	2FR SAC	1.1+08	6.0+08	Jour	PRL,35,773	75	O.Artun+	O0807
^{12}C ,non		CS	2ZZZCER	1.0+09		Jour	NP/A,420,162	84	S.Kox+	O0776

20

Calcium

42

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p ,el	^{42}Ca	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788

20

Calcium

44

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p ,el	^{44}Ca	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
p ,el	^{44}Ca	POD	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788

20

Calcium

48

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d ,t	^{47}Ca	DAP	3ISLHEB	7.3+06		Jour	PR/C,9,2340	74	E.Friedman+	O0794

21

Scandium

45

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p ,el	^{45}Sc	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788

<i>p</i> ,el	⁴⁵ Sc	POD	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
<i>p</i> ,x	Many	PY	2ZZZCER	6.0+08		Jour	PS,34,578	86	T.Bjornstad+	O0834
³ He,x	Many	PY	2ZZZCER	9.1+08		Jour	PS,34,578	86	T.Bjornstad+	O0834

22 Titanium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> , γ	⁴⁹ V	TT	2GERFRK	1.3+06	1.4+06	Jour	NIM/B,28,280	87	Th.Lenz+	O0902
<i>p</i> , <i>n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p</i> ,x	Many	PY	2ZZZCER	6.0+08		Jour	NIM/B,62,535	92	R.Eder+	O0762
<i>p</i> ,x	²⁴ Na	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	²⁷ Mg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	²⁹ Al	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	³⁴ Cl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	³⁸ Cl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	³⁹ Cl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	⁴¹ Ar	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	⁴² K	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	⁴³ K	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	⁴⁴ K	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	⁴⁵ K	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	⁴³ Sc	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	⁴⁴ Sc	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	⁴⁷ Sc	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> ,x	⁴⁸ Sc	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
α ,el	<i>nat</i> Ti	DA	2SF HLS	1.0+06	2.6+06	Jour	NIM/B,40/41,790	89	E.Rauhala	O0880
⁶ Li,el	<i>nat</i> Ti	DA	2SF HLS	5.0+06	1.1+07	Jour	NIM/B,155,211	99	A.Nurmela+	O0857
⁷ Li,el	<i>nat</i> Ti	DA	2SF HLS	4.9+06	1.2+07	Jour	JAP,75,642	94	E.Rauhala+	O0866
⁷ Li,el	<i>nat</i> Ti	DA	2SF HLS	5.2+06	1.1+07	Jour	NIM/B,155,211	99	A.Nurmela+	O0857
¹² C,el	<i>nat</i> Ti	DA	2SF HLS	3.3+06	2.5+07	Jour	JAP,75,642	94	E.Rauhala+	O0866
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹⁴ N,el	<i>nat</i> Ti	DA	2SF HLS	9.8+06	2.9+07	Jour	JAP,75,642	94	E.Rauhala+	O0866
¹⁶ O,el	<i>nat</i> Ti	DA	2SF HLS	2.3+07	3.4+07	Jour	JAP,75,642	94	E.Rauhala+	O0866

22 Titanium 46

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,inel	⁴⁶ Ti	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

22 Titanium 48

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> , γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

23 Vanadium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^{12}\text{C},\gamma$	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

23 Vanadium 50

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{47}Sc	CS	4RUSRI	1.5+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
$n,n+\alpha$	^{46}Sc	CS	4RUSRI	1.5+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424

23 Vanadium 51

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{48}Sc	CS	4RUSRI	1.5+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
$n,n+\alpha$	^{47}Sc	CS	4RUSRI	1.5+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
p,γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,inel	^{51}V	DAP	2FR PAR	2.0+08		Jour	NP/A,388,1	82	C.Djalali+	O0805
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,x	Many	CS	2FR SAC	2.2+08		Jour	PRL,35,773	75	O.Artun+	O0807
p,x	Many	PY	2ZZZCER	6.0+08		Jour	PS,34,578	86	T.Bjornstad+	O0834
α,x	^7Be	CS	1USAWAU	4.1+07	3.2+07	Jour	PR,131,1697	Aug 63	E.F.Neuzil+	C0955
α,x	^{46}K	CS	1USAWAU	4.1+07	3.6+07	Jour	PR,131,1697	Aug 63	E.F.Neuzil+	C0955
α,x	^{47}Sc	CS	1USAWAU	4.1+07	3.3+07	Jour	PR,131,1697	Aug 63	E.F.Neuzil+	C0955
α,x	^{48}Sc	CS	1USAWAU	4.1+07		Jour	PR,131,1697	Aug 63	E.F.Neuzil+	C0955

24 Chromium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	^{45}Ti	CS	2GERJUL	3.3+07	3.8+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
p,x	^{48}V	CS	2GERJUL	2.0+07	3.8+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
p,x	^{48}Cr	CS	2GERJUL	2.7+07	3.8+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
p,x	^{49}Cr	CS	2GERJUL	1.7+07	3.8+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
p,x	^{51}Cr	CS	2GERJUL	1.7+07	3.8+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
p,x	^{51}Mn	CS	2GERJUL	1.7+07	3.8+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
p,x	^{52}Mn	CS	2GERJUL	1.7+07	3.8+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
p,x	^{54}Mn	CS	2GERJUL	1.7+07	3.8+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
$^{12}\text{C},\gamma$	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

24 Chromium 50

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$d,2n$	^{50}Mn	CS	2GERJUL	1.3+07		Jour	RCA,88,253	00	A.T.J.Klein+	O0771

<i>d,α</i>	⁴⁸ V	CS	2GERJUL	2.9+06	1.3+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
<i>d,n</i>	⁵¹ Mn	CS	2GERJUL	2.9+06	1.3+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
<i>d,p</i>	⁵¹ Cr	CS	2GERJUL	2.9+06	1.3+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771
<i>d,t</i>	⁴⁹ Cr	CS	2GERJUL	1.1+07	1.3+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771

24 Chromium 52

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁵² Cr	DA	2SWTZUR	2.4+06	4.1+06	Jour	HPA,44,757	71	W.R.Wylie+	D0103
<i>p,inel</i>	⁵² Cr	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>d,2p</i>	⁵² V	CS	2GERJUL	1.2+07	1.3+07	Jour	RCA,88,253	00	A.T.J.Klein+	O0771

25 Manganese 55

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁵⁵ Mn	DA	3ISLHEB	8.2+06	9.6+06	Jour	NP/A,110,300	68	E.Friedman+	O0895
<i>p,inel</i>	⁵⁵ Mn	DAP	3ISLHEB	8.2+06	9.6+06	Jour	NP/A,110,300	68	E.Friedman+	O0895
<i>p,n</i>	⁵⁵ Fe	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

26 Iron

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRIEST,2,1643	May 97	U.J.Schrewe+	22507
<i>p,el</i>	<i>nat</i> Fe	DA	2ITYMIL	3.6+07		Jour	NP/A,307,22	78	G.Bendiscioli+	O0832
<i>p,el</i>	<i>nat</i> Fe	POD	2ITYMIL	3.6+07		Jour	NP/A,307,22	78	G.Bendiscioli+	O0832
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,t</i>	incl	CS	1USACHI	2.0+06		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,t</i>	incl	CS	1USABNL	4.5+08		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,x</i>	⁵³ Mn	CS	2GERMUU	1.7+07	1.6+09	Priv	MICHEL	Oct 00	S.Merchel+	O0803
¹² C, γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
¹² C,non		CS	2FR GRE	3.9+08	3.6+09	Jour	PL/B,159,15	85	S.Kox+	O0775

26 Iron 54

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁵⁴ Fe	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
<i>p,inel</i>	⁵⁴ Fe	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
¹² C,non		CS	2ZZZCER	1.0+09		Jour	NP/A,420,162	84	S.Kox+	O0776

26

Iron

56

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁵⁶ Fe	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
<i>p,el</i>	⁵⁶ Fe	DA	3ISLHEB	8.6+06	1.1+07	Jour	NP/A,110,300	68	E.Friedman+	O0895
<i>p,inel</i>	⁵⁶ Fe	DAP	3ISLHEB	8.6+06	1.1+07	Jour	NP/A,110,300	68	E.Friedman+	O0895
<i>p,inel</i>	⁵⁶ Fe	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,x</i>	Many	CS	2FR SAC	9.6+08		Jour	PRL,35,773	75	O.Artun+	O0807
¹² C,non		CS	2ZZZCER	1.0+09		Jour	NP/A,420,162	84	S.Kox+	O0776
²⁰ Ne,non		CS	2FR GRE	6.0+08		Jour	NP/A,420,162	84	S.Kox+	O0776

26

Iron

57

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
¹² C,non		CS	2ZZZCER	1.0+09		Jour	NP/A,420,162	84	S.Kox+	O0776

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Cobalt

59

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	⁵⁸ Co	CS	2ZZZGEL	1.3+07	2.0+07	Jour	NP/A,730,255	04	V.Semkova+	22820
<i>n,α</i>	incl	CSP	2BLGLVN	6.3+07	3.8+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,α</i>	incl	DAE	2BLGLVN	3.8+07	6.3+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,α</i>	incl	DAP	2BLGLVN	6.3+07	3.8+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,α</i>	incl	DE	2BLGLVN	6.3+07	3.8+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,d</i>	incl	CSP	2BLGLVN	6.3+07	2.6+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,d</i>	incl	DAE	2BLGLVN	2.6+07	6.3+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,d</i>	incl	DAP	2BLGLVN	6.3+07	2.6+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,d</i>	incl	DE	2BLGLVN	6.3+07	2.6+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,p</i>	incl	CSP	2BLGLVN	6.3+07	2.6+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,p</i>	incl	DAE	2BLGLVN	2.6+07	6.3+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,p</i>	incl	DAP	2BLGLVN	6.3+07	2.6+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,p</i>	incl	DE	2BLGLVN	6.3+07	2.6+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,t</i>	incl	CSP	2BLGLVN	6.3+07	3.2+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,t</i>	incl	DAE	2BLGLVN	3.2+07	6.3+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,t</i>	incl	DAP	2BLGLVN	6.3+07	3.2+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>n,t</i>	incl	DE	2BLGLVN	6.3+07	3.2+07	Jour	JP/G,28,2823	Nov 02	N.Nica+	22810
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,n</i>	⁵⁹ Ni	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>α,x</i>	⁷ Be	CS	1USAWAU	4.0+07	3.7+07	Jour	PR,131,1697	Aug 63	E.F.Neuzil+	C0955
<i>α,x</i>	⁵⁴ Mn	CS	1USAWAU	4.0+07	3.7+07	Jour	PR,131,1697	Aug 63	E.F.Neuzil+	C0955
<i>α,x</i>	⁵⁶ Mn	CS	1USAWAU	4.0+07	3.7+07	Jour	PR,131,1697	Aug 63	E.F.Neuzil+	C0955
¹² C,γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

28

Nickel

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

<i>n,p</i>	⁶⁰ Co	CS	2ZZZGEL	1.3+07	2.0+07	Jour	NP/A,730,255	04	V.Semkova+	22820
<i>p,el</i>	^{nat} Ni	DA	2ITYMIL	3.6+07		Jour	NP/A,307,22	78	G.Bendisoli+	O0832
<i>p,el</i>	^{nat} Ni	POD	2ITYMIL	3.6+07		Jour	NP/A,307,22	78	G.Bendisoli+	O0832
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,t</i>	incl	CS	1USACHI	2.0+06		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,t</i>	incl	CS	1USABNL	4.5+08		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,x</i>	³⁴ Cl	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁴¹ Ar	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁴³ Sc	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁴⁴ Sc	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁴⁸ Cr	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁴⁹ Cr	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁵² Mn	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁵³ Mn	CS	2GERMUU	3.4+07	2.6+09	Priv	MICHEL	Oct 00	S.Merchel+	O0803
<i>p,x</i>	⁵² Fe	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁶⁰ Fe	CS	2GERMUU	3.4+07	2.6+09	Priv	MICHEL	Oct 00	S.Merchel+	O0803
<i>p,x</i>	⁵⁵ Co	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁵⁷ Ni	CS	2FR SAC	8.5+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>α,x</i>	⁷ Be	CS	1USAWAU	4.1+07	3.3+07	Jour	PR,131,1697	Aug 63	E.F.Neuzil+	C0955
⁷ Li,el	^{nat} Ni	DA	2SF HLS	7.8+06	1.5+07	Jour	NIM/B,161,130	00	A.Nurmela+	O0860
¹¹ B,el	^{nat} Ni	DA	2SF HLS	1.4+07	2.4+07	Jour	NIM/B,161,130	00	A.Nurmela+	O0860
¹² C,γ	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863

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Nickel

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	⁵⁷ Ni	CS	2ZZZGEL	1.5+07	2.0+07	Jour	NP/A,730,255	04	V.Semkova+	22820
<i>n,p</i>	⁵⁸ Co	CS	2ZZZGEL	9.7+05	2.0+07	Jour	NP/A,730,255	04	V.Semkova+	22820
<i>n,x</i>	⁵⁷ Co	CS	2ZZZGEL	1.5+07	2.0+07	Jour	NP/A,730,255	04	V.Semkova+	22820
<i>p,α</i>	incl	DAE	2SWTVIL	7.2+07		Jour	NP/A,420,1	84	M.Kozlowski+	O0774
<i>p,α</i>	incl	POD	2SWTVIL	7.2+07		Jour	NP/A,420,1	84	M.Kozlowski+	O0774
<i>p,d</i>	⁵⁷ Ni	DAP	2JPNOSA	5.0+07		Jour	NP/A,329,84	79	H.Ikegami+	O0812
<i>p,inel</i>	⁵⁸ Ni	DAP	2FR PAR	2.0+08		Jour	NP/A,388,1	82	C.Djalali+	O0805
<i>p,inel</i>	⁵⁸ Ni	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,x</i>	³ He	DAE	2SWTVIL	7.2+07		Jour	NP/A,420,1	84	M.Kozlowski+	O0774
<i>p,x</i>	³ He	POD	2SWTVIL	7.2+07		Jour	NP/A,420,1	84	M.Kozlowski+	O0774
¹⁶ O,el	⁵⁸ Ni	DA	3BZLUSP	3.5+07	3.7+07	Jour	NP/A,597,253	96	L.C.Chamon+	O0937
¹⁶ O,inel	⁵⁸ Ni	DAP	3BZLUSP	3.5+07	3.7+07	Jour	NP/A,597,253	96	L.C.Chamon+	O0937
¹⁸ O,fus		CS	3BZLUSP	3.9+07	6.4+07	Jour	PR/C,46,2360	92	A.M.Borges+	O0934
¹⁸ O,fus		DA	3BZLUSP	5.2+07		Jour	PR/C,46,2360	92	A.M.Borges+	O0934

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Nickel

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>n,p</i>	⁶⁰ Co	CS	2ZZZGEL	1.5+07	1.9+07	Jour	NP/A,730,255	04	V.Semkova+	22820
<i>p,inel</i>	⁶⁰ Ni	DAP	2FR PAR	2.0+08		Jour	NP/A,388,1	82	C.Djalali+	O0805
<i>p,inel</i>	⁶⁰ Ni	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
¹⁶ O,el	⁶⁰ Ni	DA	3BZLUSP	3.5+07	3.7+07	Jour	NP/A,582,305	95	L.C.Chamon+	O0927
¹⁶ O,el	⁶⁰ Ni	DA	3BZLUSP	3.5+07	3.7+07	Jour	NP/A,597,253	96	L.C.Chamon+	O0937
¹⁶ O,fus		CS	3BZLUSP	4.0+07	7.2+07	Jour	PR/C,46,2360	92	A.M.Borges+	O0934

^{16}O ,fus		DA	3BZLUSP	6.4+07		Jour	PR/C,46,2360	92	A.M.Borges+	O0934
^{16}O ,inel	^{60}Ni	DAP	3BZLUSP	3.5+07	3.7+07	Jour	NP/A,582,305	95	L.C.Chamon+	O0927
^{16}O ,inel	^{60}Ni	DAP	3BZLUSP	3.5+07	3.7+07	Jour	NP/A,597,253	96	L.C.Chamon+	O0937

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Nickel

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{61}Co	CS	2ZZZGEL	1.5+07	1.9+07	Jour	NP/A,730,255	04	V.Semkova+	22820
n,x	^{60}Co	CS	2ZZZGEL	1.9+07		Jour	NP/A,730,255	04	V.Semkova+	22820

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Nickel

62

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,x	^{61}Co	CS	2ZZZGEL	1.5+07	1.9+07	Jour	NP/A,730,255	04	V.Semkova+	22820
p ,inel	^{62}Ni	DAP	2FR PAR	2.0+08		Jour	NP/A,388,1	82	C.Djalali+	O0805
^{16}O ,el	^{62}Ni	DA	3BZLUSP	3.4+07	3.6+07	Jour	NP/A,597,253	96	L.C.Chamon+	O0937
^{16}O ,inel	^{62}Ni	DAP	3BZLUSP	3.4+07	3.6+07	Jour	NP/A,597,253	96	L.C.Chamon+	O0937

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Nickel

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,p	^{67}Cu	CS	2GERJUL	2.4+07	6.4+06	Jour	ARI,60,33	04	Ye.Skakun+	D0088
^{16}O ,el	^{64}Ni	DA	3BZLUSP	3.4+07	3.6+07	Jour	NP/A,597,253	96	L.C.Chamon+	O0937
^{16}O ,inel	^{64}Ni	DAP	3BZLUSP	3.4+07	3.6+07	Jour	NP/A,597,253	96	L.C.Chamon+	O0937

29

Copper

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,α	incl	CS	2JPNTOK	5.6+07		Jour	NP,47,19	63	J.Muto+	O0759
p,α	incl	DA	2JPNTOK	3.0+07	5.6+07	Jour	NP,47,19	63	J.Muto+	O0759
p,α	incl	DAE	2JPNTOK	3.0+07	5.6+07	Jour	NP,47,19	63	J.Muto+	O0759
p ,el	^{nat}Cu	DA	3ISLHEB	9.4+06	1.1+07	Jour	NP/A,110,300	68	E.Friedman+	O0895
p,η	incl	DAE	2FR SAC	9.0+08		Jour	ZP/A,344,345	93	E.Chiavassa+	O0914
p ,inel	^{nat}Cu	DAP	3ISLHEB	9.4+06	1.1+07	Jour	NP/A,110,300	68	E.Friedman+	O0895
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,π^-	incl	DAE	4ZZZDUB	6.0+08		Jour	YF,26,966	77	Yu.A.Batusov+	O0831
p,π^+	incl	DAE	4RUSJIA	3.4+08	3.6+08	Jour	YF,61,2117	98	V.N.Aseev+	O0713
p,π^+	incl	DAE	4ZZZDUB	6.0+08		Jour	YF,26,966	77	Yu.A.Batusov+	O0831
p,x	^{65}Zn	CS	2SWTPSI	3.9+06	7.4+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
α,x	^{65}Zn	CS	3INDMUA	3.3+07	3.9+07	Jour	JPJ,56,3135	87	I.A.Rizvi+	D0090
α,x	^{65}Zn	CS	3INDVEC	4.4+07	4.9+07	Jour	JRN,152,189	91	N.L.Singh+	D0099
α,x	^{65}Zn	CS	2GERKFK	7.7+07	1.9+07	Jour	JRN,152,189	91	O.Bonesso+	D0092
α,x	^{65}Ga	CS	2GERKFK	5.4+07	2.2+07	Jour	JRN,152,189	91	O.Bonesso+	D0092
α,x	^{66}Ga	CS	3INDMUA	2.8+07	3.9+07	Jour	JPJ,56,3135	87	I.A.Rizvi+	D0090

α,x	^{66}Ga	CS	3INDVEC	3.2+07	4.9+07	Jour	JRN,152,189	91	N.L.Singh+	D0099
α,x	^{66}Ga	CS	2GERKFK	7.7+07	1.3+07	Jour	JRN,152,189	91	O.Bonesso+	D0092
$^6\text{He},2n+\alpha$		CS	1USAMSU	1.4+08		Jour	PR/C,65,034306	02	J.Wang+	C0867
$^{12}\text{C},\gamma$	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
$^{12}\text{C},\text{non}$		CS	4ZZZDUB	0.0+00		Jour	NP/A,348,518	80	V.D.Aksinenko+	O0779

29 Copper 63

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{60}Co	CS	2ZZZGEL	1.3+07	2.0+07	Priv	PLOMPEN	Nov 01	A.J.M.Plompen+	22684
p,d	incl	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
p,γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
$p,X+\pi$	^2H	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
α,n	^{66}Ga	CS	3INDVEC	1.2+07	2.6+07	Jour	JRN,152,189	91	N.L.Singh+	D0099
α,n	^{66}Ga	CS	3INDMUA	1.7+07	2.6+07	Jour	JPJ,56,3135	87	I.A.Rizvi+	D0090
α,x	^{65}Zn	CS	3INDMUA	1.7+07	3.0+07	Jour	JPJ,56,3135	87	I.A.Rizvi+	D0090
α,x	^{65}Zn	CS	3INDVEC	1.7+07	4.0+07	Jour	JRN,152,189	91	N.L.Singh+	D0099

29 Copper 65

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$\alpha,2n$	^{67}Ga	CS	3INDMUA	1.7+07	3.9+07	Jour	JPJ,56,3135	87	I.A.Rizvi+	D0090
$\alpha,2n$	^{67}Ga	CS	3INDVEC	1.7+07	4.9+07	Jour	JRN,152,189	91	N.L.Singh+	D0099
$\alpha,2n$	^{67}Ga	CS	2GERKFK	7.7+07	1.9+07	Jour	JRN,152,189	91	O.Bonesso+	D0092
α,n	^{68}Ga	CS	3INDVEC	1.2+07	4.9+07	Jour	JRN,152,189	91	N.L.Singh+	D0099
α,n	^{68}Ga	CS	3INDMUA	1.7+07	2.2+07	Jour	JPJ,56,3135	87	I.A.Rizvi+	D0090
α,n	^{68}Ga	CS	2GERKFK	4.2+07	7.8+06	Jour	JRN,152,189	91	O.Bonesso+	D0092

30 Zinc

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{nat}Zn	DA	3CRORBZ	2.5+06	4.8+06	Jour	NIM/B,79,524	93	I.Bogdanovic+	D0102
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,x	^{66}Ga	CS	3CZRUV	5.8+06	3.1+07	Jour	ARI,41,606	90	P.Kopecky	D0089
p,x	^{66}Ga	TT	3CZRUV	5.4+06	3.1+07	Jour	ARI,41,606	90	P.Kopecky	D0089
p,x	^{67}Ga	CS	3CZRUV	4.2+06	3.1+07	Jour	ARI,41,606	90	P.Kopecky	D0089
p,x	^{67}Ga	TT	3CZRUV	5.3+06	3.1+07	Jour	ARI,41,606	90	P.Kopecky	D0089
$^{12}\text{C},\gamma$	incl	PY	2SF HLS	2.2+07	2.8+07	Jour	NIM/B,143,233	98	A.Seppala+	O0863
$^{12}\text{C},\text{non}$		CS	4ZZZDUB	0.0+00		Jour	NP/A,348,518	80	V.D.Aksinenko+	O0779
$^{12}\text{C},\text{non}$		CS	2FR GRE	3.7+08	3.6+09	Jour	PL/B,159,15	85	S.Kox+	O0775

30 Zinc 64

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

$p,inel$	^{64}Zn	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
$^{12}\text{C},non$		CS	2ZZZCER	1.0+09		Jour	NP/A,420,162	84	S.Kox+	O0776
$^{20}\text{Ne},non$		CS	2FR GRE	6.0+08		Jour	NP/A,420,162	84	S.Kox+	O0776

30

Zinc

66

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

$p,inel$	^{66}Zn	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
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30

Zinc

68

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

$^{12}\text{C},non$		CS	2ZZZCER	1.0+09		Jour	NP/A,420,162	84	S.Kox+	O0776
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32

Germanium

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

p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,x	Many	PY	2ZZZCER	6.0+08		Jour	PS,34,578	86	T.Bjornstad+	O0834

32

Germanium

70

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

$p,inel$	^{70}Ge	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
α,γ	^{74}Se	CS	3HUNDEB	5.0+06	8.0+06	Jour	ZP/A,355,203	96	Zs.Fulop+	O0897
α,γ	^{74}Se	RR	3HUNDEB	Maxwl		Jour	ZP/A,355,203	96	Zs.Fulop+	O0897

32

Germanium

72

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

$p,inel$	^{72}Ge	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
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34

Selenium

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

p,el	^{nat}Se	DA	3CRORBZ	3.3+06	4.8+06	Jour	NIM/B,79,524	93	I.Bogdanovic+	D0102
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34

Selenium

74

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{73}Se	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
n,p	^{74}As	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424

34

Selenium

76

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{75}Se	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
n,p	^{76}As	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424

34

Selenium

78

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{75}Ge	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
n,p	^{78}As	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424

34

Selenium

80

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{79}Se	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
n,α	^{77}Ge	?	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424

34

Selenium

82

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{81}Se	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424

35

Bromine

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{nat}Br	DA	3CRORBZ	3.3+06	4.8+06	Jour	NIM/B,79,524	93	I.Bogdanovic+	D0102

38

Strontium

88

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^{16}\text{O,el}$	^{88}Sr	DA	3BZLUSP	4.3+07	4.5+07	Jour	NP/A,656,187	99	M.A.G.Alvarez+	O0938

39

Yttrium

89

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{89}Y	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
p,γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,x	Many	PY	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
$^{12}\text{C,non}$		CS	2ZZZCER	1.0+09		Jour	NP/A,420,162	84	S.Kox+	O0776

40

Zirconium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,tot		KER	2GERPTB	5.0+06	6.6+07	Conf	97TRIEST,2,1643	May 97	U.J.Schrewe+	22507
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
n,tot		KER	2GERPTB	4.4+07		Conf	97TRIEST,2,1643	May 97	U.J.Schrewe+	22507

40

Zirconium

90

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{87}Sr	CS	2ZZZGEL	1.5+07	2.1+07	Rept	EUR-20820-EN	03	V.Semkova+	22822
n,p	^{90}Y	CS	2ZZZGEL	1.5+07	2.1+07	Rept	EUR-20820-EN	03	V.Semkova+	22822
p,α	incl	DAE	2SWTVIL	7.2+07		Jour	NP/A,420,1	84	M.Kozlowski+	O0774
p,α	incl	POD	2SWTVIL	7.2+07		Jour	NP/A,420,1	84	M.Kozlowski+	O0774
p,α	^{87}Y	DAE	2ITYMIL	2.4+07		Jour	ZP/A,354,53	96	P.Guazzoni+	O0936
p,α	^{87}Y	DAP	2GERMUN	2.2+07		Jour	EPJ/A,1,365	98	P.Guazzoni+	O0919
p,α	^{87}Y	DE	2ITYMIL	2.4+07		Jour	ZP/A,354,53	96	P.Guazzoni+	O0936
p,el	^{90}Zr	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
p,el	^{90}Zr	POD	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
p,inel	^{90}Zr	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,n	^{90}Nb	DAP	2JPNTOH	4.1+07		Jour	PL/B,160,369	85	S.Nishihara+	O0802
p,x	^3He	DAE	2SWTVIL	7.2+07		Jour	NP/A,420,1	84	M.Kozlowski+	O0774
p,x	^3He	POD	2SWTVIL	7.2+07		Jour	NP/A,420,1	84	M.Kozlowski+	O0774
$^{16}\text{O,el}$	^{90}Zr	DA	3BZLUSP	4.6+07	4.8+07	Jour	NP/A,656,187	99	M.A.G.Alvarez+	O0938
$^{16}\text{O,inel}$	^{90}Zr	DAP	3BZLUSP	4.6+07	4.8+07	Jour	NP/A,656,187	99	M.A.G.Alvarez+	O0938
$^{58}\text{Ni,el}$	^{90}Zr	DA	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,157	99	Y.Sugiyama+	O0926
$^{58}\text{Ni,inel}$	^{90}Zr	CSP	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,157	99	Y.Sugiyama+	O0926
$^{58}\text{Ni,inel}$	^{90}Zr	DAP	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,157	99	Y.Sugiyama+	O0926

40 Zirconium 91

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	⁹¹ Y	CS	2ZZZGEL	1.5+07	2.1+07	Rept	EUR-20820-EN	03	V.Semkova+	22822
<i>n,x</i>	⁹⁰ Y	CS	2ZZZGEL	1.5+07	2.1+07	Rept	EUR-20820-EN	03	V.Semkova+	22822
<i>p,α</i>	⁸⁸ Y	DAE	2ITYMIL	2.4+07		Jour	ZP/A,354,53	96	P.Guazzoni+	00936
<i>p,α</i>	⁸⁸ Y	DE	2ITYMIL	2.4+07		Jour	ZP/A,354,53	96	P.Guazzoni+	00936
<i>p,el</i>	⁹¹ Zr	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	00788
<i>p,t</i>	⁸⁹ Zr	DAP	2GERMUN	2.5+07		Jour	NP/A,697,611	02	P.Guazzoni+	00932

40 Zirconium 92

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	⁹² Y	CS	2ZZZGEL	1.5+07	2.1+07	Rept	EUR-20820-EN	03	V.Semkova+	22822
<i>n,x</i>	⁹¹ Y	CS	2ZZZGEL	1.5+07	2.1+07	Rept	EUR-20820-EN	03	V.Semkova+	22822
<i>p,el</i>	⁹² Zr	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	00788
<i>p,el</i>	⁹² Zr	POD	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	00788
¹⁶ O, <i>el</i>	⁹² Zr	DA	3BZLUSP	4.5+07	4.8+07	Jour	NP/A,656,187	99	M.A.G.Alvarez+	00938

40 Zirconium 94

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁹⁴ Zr	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	00788
⁵⁸ Ni, <i>el</i>	⁹⁴ Zr	DA	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,157	99	Y.Sugiyama+	00926
⁵⁸ Ni, <i>inel</i>	⁹⁴ Zr	CSP	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,157	99	Y.Sugiyama+	00926
⁵⁸ Ni, <i>inel</i>	⁹⁴ Zr	DAP	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,157	99	Y.Sugiyama+	00926

40 Zirconium 96

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁹⁶ Zr	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	00788
<i>p,el</i>	⁹⁶ Zr	POD	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	00788

41 Niobium 93

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	⁹² Nb	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,2n</i>	⁹² Nb	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,α</i>	⁹⁰ Y	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>p,γ</i>	⁹⁴ Mo	CS	2GERTHS	1.4+06	4.8+06	Jour	PR/C,64,05584	01	S.Harissopulos+	00918
<i>p,γ</i>	⁹⁴ Mo	DAP	2GERTHS	2.0+06	3.0+06	Jour	PR/C,64,05584	01	S.Harissopulos+	00918
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	00901
<i>p,n</i>	⁹³ Mo	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	00901

p,p	incl	MLT	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
p,π^-	incl	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
p,π^+	incl	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
p,tot		CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
$p,X+p$	^{nat}Pp	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
$p,X+p$	^{nat}Pn	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
p,x	Many	CS	2ZZZCER	6.0+08		Jour	ZP/A,318,309	84	G.T.Ewan+	O0838
p,x	Many	PY	2ZZZCER	6.0+08		Jour	NIM/B,62,535	92	R.Eder+	O0762
p,x	Many	PY	2ZZZCER	6.0+08		Jour	NIM,186,307	81	B.Vosicki+	O0763
p,x	Many	PY	2ZZZCER	6.0+08		Jour	PS,34,578	86	T.Bjornstad+	O0834

42 Molybdenum

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

42 Molybdenum

92

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{89}Zr	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
n,p	^{92}Nb	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
p,el	^{92}Mo	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
$p,inel$	^{92}Mo	DAP	2FR PAR	2.0+08		Jour	NP/A,388,1	82	C.Djalali+	O0805
$p,inel$	^{92}Mo	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
$p,inel$	^{92}Mo	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
p,t	^{90}Mo	DAP	2JPNTIT	5.2+07		Jour	PRL,27,520	Aug 71	H.Taketani+	O0813
$^{16}O,el$	^{92}Mo	DA	3BZLUSP	4.8+07	4.9+07	Jour	NP/A,656,187	99	M.A.G.Alvarez+	O0938
$^{16}O,inel$	^{92}Mo	DAP	3BZLUSP	4.8+07	4.9+07	Jour	NP/A,656,187	99	M.A.G.Alvarez+	O0938

42 Molybdenum

94

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{93}Mo	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
p,el	^{94}Mo	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
$p,inel$	^{94}Mo	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
p,t	^{92}Mo	DAP	2JPNTIT	5.2+07		Jour	PRL,27,520	Aug 71	H.Taketani+	O0813

42 Molybdenum

95

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{95}Nb	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
p,n	^{95}Tc	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

42

Molybdenum

96

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	⁹⁶ Nb	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>p,el</i>	⁹⁶ Mo	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,incl</i>	⁹⁶ Mo	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,t</i>	⁹⁴ Mo	DAP	2JPNTIT	5.2+07		Jour	PRL,27,520	Aug 71	H.Taketani+	O0813

42

Molybdenum

98

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁹⁸ Mo	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,incl</i>	⁹⁸ Mo	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,t</i>	⁹⁶ Mo	DAP	2JPNTIT	5.2+07		Jour	PRL,27,520	Aug 71	H.Taketani+	O0813

42

Molybdenum

100

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	⁹⁹ Mo	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,α</i>	⁹⁷ Zr	CS	4RUSRI	1.4+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>p,2n</i>	⁹⁹ Tc	CS	1USADAV	9.5+06	2.5+07	Jour	ANS,74,137	Jun 96	M.C.Lagunas-Solar+	C0963
<i>p,el</i>	¹⁰⁰ Mo	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,incl</i>	¹⁰⁰ Mo	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,t</i>	⁹⁸ Mo	DAP	2JPNTIT	5.2+07		Jour	PRL,27,520	Aug 71	H.Taketani+	O0813
<i>p,x</i>	⁹⁹ Tc	TT	1USADAV	1.3+07		Jour	ANS,74,137	Jun 96	M.C.Lagunas-Solar+	C0963

43

Technetium

99

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2p</i>	⁹⁸ Nb	CS	4RUSRI	1.5+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,α</i>	⁹⁶ Nb	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,n+α</i>	⁹⁵ Nb	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,p</i>	⁹⁹ Mo	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424

44

Ruthenium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

44

Ruthenium

96

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,inel	⁹⁶ Ru	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

44

Ruthenium

102

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	¹⁰² Ru	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p</i> ,inel	¹⁰² Ru	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581

44

Ruthenium

104

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,inel	¹⁰⁴ Ru	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

45

Rhodium

103

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,2 <i>n</i>	¹⁰² Rh	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n</i> , <i>n</i> + α	⁹⁹ Tc	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n</i> , <i>p</i>	¹⁰³ Ru	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>p</i> ,3 <i>n</i>	¹⁰¹ Pd	CS	2BLGBLG	2.0+07	2.9+07	Jour	NIM/B,170,281	00	A.Hermanne+	O0843
<i>p</i> , α	incl	CS	2JPNTOK	5.6+07		Jour	NP,47,19	63	J.Muto+	O0759
<i>p</i> , α	incl	DA	2JPNTOK	3.0+07	5.6+07	Jour	NP,47,19	63	J.Muto+	O0759
<i>p</i> , α	incl	DAE	2JPNTOK	5.6+07		Jour	NP,47,19	63	J.Muto+	O0759
<i>p</i> , <i>d</i>	incl	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
<i>p</i> , <i>n</i>	¹⁰³ Pd	CS	2BLGBLG	4.8+06	2.5+07	Jour	NIM/B,170,281	00	A.Hermanne+	O0843
<i>p</i> ,X+ π	² H	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
<i>p</i> , <i>x</i>	¹⁰¹ Rh	CS	2BLGBLG	1.2+07	2.9+07	Jour	NIM/B,170,281	00	A.Hermanne+	O0843
<i>p</i> , <i>x</i>	¹⁰² Rh	CS	2BLGBLG	1.2+07	2.9+07	Jour	NIM/B,170,281	00	A.Hermanne+	O0843

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Palladium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> , <i>n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

46

Palladium

104

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

<i>p,el</i>	¹⁰⁴ Pd	DA	2ITYMIL	1.0+07	3.5+07	Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,inel</i>	¹⁰⁴ Pd	DAP	2ITYMIL	1.0+07	3.5+07	Jour	PR/C,26,1941	82	E.Cereda+	O0581

46 Palladium 106

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

<i>p,el</i>	¹⁰⁶ Pd	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,inel</i>	¹⁰⁶ Pd	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581

46 Palladium 108

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

<i>p,el</i>	¹⁰⁸ Pd	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,inel</i>	¹⁰⁸ Pd	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,inel</i>	¹⁰⁸ Pd	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

46 Palladium 110

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

<i>p,el</i>	¹¹⁰ Pd	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,inel</i>	¹¹⁰ Pd	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581

47 Silver

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

<i>p,α</i>	incl	CS	2JPNTOK	5.6+07		Jour	NP,47,19	63	J.Muto+	O0759
<i>p,α</i>	incl	DA	2JPNTOK	3.0+07	5.6+07	Jour	NP,47,19	63	J.Muto+	O0759
<i>p,α</i>	incl	DAE	2JPNTOK	3.0+07	5.6+07	Jour	NP,47,19	63	J.Muto+	O0759
<i>p,n</i>	incl	CSN	2ZZZCER	1.2+09		Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,t</i>	incl	CS	1USACHI	2.0+06		Jour	PR,101,1557	56	L.A.Currie+	C0836

47 Silver 107

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

<i>p,n</i>	¹⁰⁷ Cd	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
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47

Silver

109

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁰⁹ Cd	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

48

Cadmium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

48

Cadmium

106

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹⁰⁵ Cd	CS	4RUSRI	1.5+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,2n</i>	¹⁰⁵ Cd	?	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,n+p</i>	¹⁰⁵ Ag	?	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,p</i>	¹⁰⁶ Ag	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>p,el</i>	¹⁰⁶ Cd	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,incl</i>	¹⁰⁶ Cd	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581

48

Cadmium

108

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹⁰⁷ Cd	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424

48

Cadmium

110

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹⁰⁹ Cd	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,γ</i>	¹¹¹ Cd	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,γ</i>	¹¹¹ Cd	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,p</i>	¹¹⁰ Ag	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>p,el</i>	¹¹⁰ Cd	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,incl</i>	¹¹⁰ Cd	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581

48

Cadmium

111

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹¹² Cd	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813

<i>n,γ</i>	¹¹² Cd	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,p</i>	¹¹¹ Ag	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>p,n</i>	¹¹¹ In	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

48 Cadmium 112

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹¹¹ Cd	CS	4RUSRI	1.5+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,α</i>	¹⁰⁹ Pd	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,γ</i>	¹¹³ Cd	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,γ</i>	¹¹³ Cd	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,p</i>	¹¹² Ag	CS	4RUSRI	1.5+07		Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>p,el</i>	¹¹² Cd	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,inel</i>	¹¹² Cd	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581

48 Cadmium 113

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹¹⁴ Cd	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,γ</i>	¹¹⁴ Cd	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,p</i>	¹¹³ Ag	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813

48 Cadmium 114

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	¹¹¹ Pd	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,γ</i>	¹¹⁵ Cd	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,γ</i>	¹¹⁵ Cd	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>p,n</i>	¹¹⁴ In	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

48 Cadmium 116

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹¹⁵ Cd	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,γ</i>	¹¹⁷ Cd	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,γ</i>	¹¹⁷ Cd	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>p,el</i>	¹¹⁶ Cd	DA	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581
<i>p,inel</i>	¹¹⁶ Cd	DAP	2ITYMIL	2.2+07		Jour	PR/C,26,1941	82	E.Cereda+	O0581

49 Indium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

49 Indium 113

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{113}Sn	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

49 Indium 115

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,γ	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

50 Tin

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
$^6\text{He},2n+\alpha$		CS	1USAMSU	1.4+08		Jour	PR/C,65,034306	02	J.Wang+	C0867

50 Tin 112

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	^7Be	CS	4ZZZDUB	6.6+08	8.1+09	Jour	YF,63,204	00	A.S.Danagulyan+	O0820
p,x	^{24}Na	CS	4ZZZDUB	6.6+08	8.1+09	Jour	YF,63,204	00	A.S.Danagulyan+	O0820
p,x	^{28}Mg	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
p,x	^{42}K	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{43}K	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{43}Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{44}Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{44}Sc	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
p,x	^{46}Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{48}Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{48}V	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{49}Cr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{51}Cr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{52}Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{52}Mn	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
p,x	^{54}Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
p,x	^{56}Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821

<i>p,x</i>	⁵⁹ Fe	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁶ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁷ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁸ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Cu	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁹ Zn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Ga	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² Ga	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁹ Ge	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁰ As	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷¹ As	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² As	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁴ As	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ As	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² Se	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷³ Se	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁵ Se	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁴ Br	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁵ Br	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ Br	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁷ Br	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ Kr	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁷ Kr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁹ Kr	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸¹ Rb	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸⁴ Rb	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁸⁶ Y	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁹⁴ Tc	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁹⁹ Rh	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹⁰⁴ Ag	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹⁰⁸ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁰ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840

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Tin

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹¹⁶ Sn	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
<i>p,inel</i>	¹¹⁶ Sn	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

50

Tin

118

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,inel</i>	¹¹⁸ Sn	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,x</i>	⁷ Be	CS	4ZZZDUB	6.6+08	8.1+09	Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	²² Na	CS	4ZZZDUB	6.6+08	8.1+09	Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	²⁴ Na	CS	4ZZZDUB	6.6+08	8.1+09	Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	²⁸ Mg	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	³⁸ S	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	³⁸ Cl	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	³⁹ Cl	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	⁴² K	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821

<i>p,x</i>	⁴³ K	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴³ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁴ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁴ Sc	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁴⁶ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁸ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁸ V	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁹ Cr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵¹ Cr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵² Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵² Mn	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁵⁴ Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁶ Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁹ Fe	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁶ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁷ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁸ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Cu	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁹ Zn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Ga	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² Ga	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Ge	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁹ Ge	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁰ As	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷¹ As	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² As	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁴ As	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ As	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² Se	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷³ Se	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁵ Se	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁴ Br	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁵ Br	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ Br	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁷ Br	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ Kr	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁷ Kr	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁹ Kr	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸¹ Rb	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸⁴ Rb	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁸¹ Sr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸⁶ Y	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁹⁴ Tc	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁹⁹ Rh	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹⁰⁴ Ag	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹⁰⁸ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁰ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁷ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁶ Sb	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840

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Tin

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹¹⁹ Sn	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788

p,n ¹¹⁹Sb PY 2SF HLS 7.0+06 9.0+06 Jour NIM/B,28,199 87 J.Raisanen+ O0901

50 Tin 120

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹²⁰ Sn	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
<i>p,inel</i>	¹²⁰ Sn	DAP	2FR PAR	2.0+08		Jour	NP/A,388,1	82	C.Djalali+	O0805
<i>p,n</i>	¹²⁰ Sb	DAP	2JPNTOH	4.1+07		Jour	PL/B,160,369	85	S.Nishihara+	O0802
<i>p,x</i>	⁷ Be	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	²² Na	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	²⁴ Na	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	²⁸ Mg	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	³⁸ S	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	³⁸ Cl	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	³⁹ Cl	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	⁴² K	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴³ K	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴³ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁴ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁴ Sc	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁴⁶ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁸ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁸ V	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁹ Cr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵¹ Cr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵² Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵² Mn	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁵⁴ Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁶ Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁹ Fe	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁶ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁷ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁸ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁹ Zn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Ga	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² Ga	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Ge	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁹ Ge	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁰ As	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷¹ As	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² As	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁴ As	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ As	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² Se	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷³ Se	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁵ Se	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁴ Br	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁵ Br	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ Br	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁷ Br	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ Kr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁷ Kr	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁹ Kr	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸¹ Rb	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821

<i>p,x</i>	⁸⁴ Rb	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁸¹ Sr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸⁶ Y	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁹⁴ Tc	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁹⁹ Rh	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹⁰⁴ Ag	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁷ Cd	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹⁰⁸ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁰ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁷ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁶ Sb	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
¹⁶ O, <i>el</i>	¹²⁰ Sn	DA	3BZLUSP	5.3+07	5.5+07	Jour	NP/A,679,287	01	C.P.Silva+	O0925

50

Tin

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹²² Sn	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788

50

Tin

124

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹²⁴ Sn	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
<i>p,inel</i>	¹²⁴ Sn	DAP	2FR PAR	2.0+08		Jour	NP/A,388,1	82	C.Djalali+	O0805
<i>p,x</i>	⁷ Be	CS	4ZZZDUB	6.6+08	8.1+09	Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	²² Na	CS	4ZZZDUB	6.6+08	8.1+09	Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	²⁴ Na	CS	4ZZZDUB	6.6+08	8.1+09	Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	²⁸ Mg	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	³⁸ S	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	³⁸ Cl	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	³⁹ Cl	CS	4ZZZDUB	8.1+09		Jour	YF,63,204	00	A.S.Danagulyan+	O0820
<i>p,x</i>	⁴² K	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴³ K	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴³ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁴ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁴ Sc	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁴⁶ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁸ Sc	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁸ V	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁴⁹ Cr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵¹ Cr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵² Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵² Mn	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁵⁴ Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁶ Mn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁹ Fe	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁶ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁷ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁵⁸ Co	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Cu	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁹ Zn	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Ga	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821

<i>p,x</i>	⁷² Ga	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁷ Ge	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁶⁹ Ge	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁰ As	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷¹ As	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² As	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁴ As	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ As	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷² Se	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷³ Se	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁵ Se	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁴ Br	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁵ Br	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁶ Br	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁷ Br	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁷ Kr	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁷⁹ Kr	CS	4ZZZDUB	1.0+09	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸¹ Rb	CS	4ZZZDUB	6.6+08	8.1+09	Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸⁴ Rb	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁸¹ Sr	CS	4ZZZDUB	8.1+09		Jour	NP/A,674,539	00	V.Aleksandryan+	O0821
<i>p,x</i>	⁸⁶ Y	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁹⁴ Tc	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	⁹⁹ Rh	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹⁰⁴ Ag	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁷ Cd	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹⁰⁸ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁰ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁷ In	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹²³ Sn	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840
<i>p,x</i>	¹¹⁶ Sb	CS	4ZZZDUB	8.1+09		Conf	2000STPETR,,296	00	J.Adam+	O0840

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹²¹ Te	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

51 Antimony 123

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,γ</i>	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
<i>p,x</i>	¹¹⁶ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁸ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²⁰ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²² Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²⁴ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²⁶ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²⁷ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²⁸ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²⁹ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁷ Te	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁹ Te	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²¹ Te	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²⁹ Te	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²¹ I	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁷⁵ Br	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁷⁷ Kr	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸² Rb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁷ Sr	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹² Sr	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁴ Y	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁵ Y	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁶ Y	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁷ Y	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁸ Y	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁸ Zr	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁹ Zr	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁸ Nb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁹ Nb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁰ Nb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁰ Mo	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹³ Mo	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹³ Tc	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁴ Tc	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁵ Tc	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁶ Tc	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁴ Ru	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁵ Ru	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁷ Ru	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁷ Rh	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁸ Rh	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁹ Rh	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁶ Rh	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁹ Pd	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰¹ Pd	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰³ Ag	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁴ Ag	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁵ Ag	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁶ Ag	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹¹ Ag	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹² Ag	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹¹ Cd	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁷ In	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768

<i>p,x</i>	¹⁰⁸ In	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁰⁹ In	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹¹⁰ In	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹¹¹ In	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹¹⁴ In	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁴ I	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768

52 Tellurium 123

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹²³ I	CS	3SARRIY	1.2+07		Jour	ENM,6,411	81	R.C.Barrall+	D0093
<i>p,n</i>	¹²³ I	TT	3SARRIY	1.2+07	1.5+07	Jour	ENM,6,411	81	R.C.Barrall+	D0093

52 Tellurium 126

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹²⁷ Te	CS	2GERDKZ	2.2-02		Jour	PR/C,66,(5),054605	Nov 02	R.Reifarh+	22815
<i>n,γ</i>	¹²⁷ Te	CS	2GERKFK	Maxwl		Jour	PR/C,66,(5),054605	Nov 02	R.Reifarh+	22815

52 Tellurium 128

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹²⁹ Te	CS	2GERDKZ	2.2-02		Jour	PR/C,66,(5),054605	Nov 02	R.Reifarh+	22815
<i>n,γ</i>	¹²⁹ Te	CS	2GERKFK	Maxwl		Jour	PR/C,66,(5),054605	Nov 02	R.Reifarh+	22815

52 Tellurium 130

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹³¹ Te	CS	2GERDKZ	2.2-02		Jour	PR/C,66,(5),054605	Nov 02	R.Reifarh+	22815
<i>n,γ</i>	¹³¹ Te	CS	2GERKFK	Maxwl		Jour	PR/C,66,(5),054605	Nov 02	R.Reifarh+	22815

53 Iodine 127

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,3n</i>	¹²⁵ Xe	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,n</i>	¹²⁷ Xe	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,x</i>	⁸⁴ Y	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁸⁵ Y	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁸⁶ Y	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁸⁹ Zr	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁸⁸ Nb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768

<i>p,x</i>	⁹⁰ Nb	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁰ Mo	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹³ Mo	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹³ Tc	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁴ Tc	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁵ Tc	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁶ Tc	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁴ Ru	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁵ Ru	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁷ Ru	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁷ Rh	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁹ Rh	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰⁰ Rh	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁸ Pd	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	⁹⁹ Pd	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰⁰ Pd	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰¹ Pd	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰² Ag	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰³ Ag	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰⁴ Ag	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰⁴ Cd	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰⁵ Cd	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰⁷ In	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰⁸ In	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰⁹ In	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁰ In	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹¹ In	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁰⁹ Sn	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁰ Sn	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁴ Sb	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁵ Sb	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁶ Sb	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁸ Sb	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹²² Sb	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁵ Te	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁶ Te	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁷ Te	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁹ Te	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁸ I	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹¹⁹ I	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹²⁰ I	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹²¹ I	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹²³ I	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹²⁴ I	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹²⁶ I	CS	2FR SAC	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	00768

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Iodine

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁴⁶ Sc	CS	4ZZZDUB	6.6+08		Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁴⁸ V	CS	4ZZZDUB	6.6+08		Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁵⁹ Fe	CS	4ZZZDUB	6.6+08		Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁵⁶ Co	CS	4ZZZDUB	6.6+08		Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁵⁸ Co	CS	4ZZZDUB	6.6+08		Conf	2001SAROV,,201	Sep 01	I.Adam+	00911

<i>p,x</i>	⁶⁵ Zn	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁷² As	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁷⁴ As	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁸³ Rb	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁸⁴ Rb	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁸⁵ Sr	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁸⁸ Y	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁸⁸ Zr	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁸⁹ Zr	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁹² Nb	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁹⁵ Nb	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	⁹⁶ Tc	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹⁰⁰ Rh	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹⁰² Rh	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹⁰⁵ Ag	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹⁰⁶ Ag	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹¹⁰ Ag	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹¹⁴ In	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹¹³ Sn	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹¹⁸ Sb	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹²⁰ Sb	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹²⁴ Sb	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹²⁶ Sb	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹¹⁹ Te	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹²¹ Te	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹²⁴ I	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911
<i>p,x</i>	¹²⁶ I	CS	4ZZZDUB	6.6+08	Conf	2001SAROV,,201	Sep 01	I.Adam+	00911

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Xenon

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹²⁹ Xe	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(6),064603	Dec 02	R.Reifarth+	22816
<i>n,γ</i>	¹²⁹ Xe	?	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(6),064603	Dec 02	R.Reifarth+	22816

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Xenon

129

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹³⁰ Xe	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(6),064603	Dec 02	R.Reifarth+	22816
<i>n,γ</i>	¹³⁰ Xe	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,66,(6),064603	Dec 02	R.Reifarth+	22816

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Xenon

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹³¹ Xe	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,66,(6),064603	Dec 02	R.Reifarth+	22816
<i>n,γ</i>	¹³¹ Xe	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,66,(6),064603	Dec 02	R.Reifarth+	22816

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
<i>p,x</i>	⁷⁶ Br	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁷⁷ Br	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁷⁶ Kr	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁷⁷ Kr	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸¹ Rb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸² Rb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸³ Sr	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁴ Y	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁵ Y	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁶ Y	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁷ Y	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁹ Zr	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁸⁹ Nb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁰ Nb	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁰ Mo	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹³ Mo	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹³ Tc	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁴ Tc	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁵ Tc	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁶ Tc	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁴ Ru	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁵ Ru	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁷ Ru	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁷ Rh	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁸ Rh	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	⁹⁹ Rh	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁰ Rh	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰¹ Rh	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰¹ Pd	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰³ Ag	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁴ Ag	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁴ Cd	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁷ In	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁸ In	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁹ In	CS	2FR SAC	1.0+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁰ In	CS	2FR SAC	1.0+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹¹ In	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁸ Sn	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹⁰⁹ Sn	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁰ Sn	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹³ Sb	CS	2FR SAC	2.0+08		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁴ Sb	CS	2FR SAC	2.0+08		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁶ Sb	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁷ Sb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁸ Sb	CS	2FR SAC	1.0+09	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²⁰ Sb	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²² Sb	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁵ Te	CS	2FR SAC	1.0+09	1.2+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁶ Te	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁷ Te	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹¹⁹ Te	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73			00	E.Porras+	00768
<i>p,x</i>	¹²¹ Te	CS	2FR SAC	2.0+08		Jour	NIM/B,160,73			00	E.Porras+	00768

<i>p,x</i>	¹¹⁸ I	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹¹⁹ I	CS	2FR SAC	2.0+08	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁰ I	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²¹ I	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²³ I	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁴ I	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁶ I	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁸ I	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹³⁰ I	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²¹ Xe	CS	2FR SAC	2.0+08	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²² Xe	CS	2FR SAC	1.2+09	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²³ Xe	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁷ Xe	CS	2FR SAC	2.0+08		Jour	NIM/B,160,73	00	E.Porras+	O0768

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Cesium

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,3n</i>	¹³¹ Ba	CS	2FR SAC	2.0+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,6n</i>	¹²⁸ Ba	CS	2FR SAC	2.0+08		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁵ Xe	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁵ Cs	CS	2FR SAC	2.0+08	1.2+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁷ Cs	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁸ Cs	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁹ Cs	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹³⁰ Cs	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹³² Cs	CS	2FR SAC	2.0+08	1.7+09	Jour	NIM/B,160,73	00	E.Porras+	O0768

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Barium

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
⁶ Li,el	¹³⁸ Ba	DA	3BZLUSP	2.1+07	2.8+07	Jour	PR/C,59,2103	99	A.M.M.Maciel+	O0930
⁷ Li,el	¹³⁸ Ba	DA	3BZLUSP	2.1+07	3.2+07	Jour	PR/C,59,2103	99	A.M.M.Maciel+	O0930
¹⁶ O,el	¹³⁸ Ba	DA	3BZLUSP	5.4+07	5.7+07	Jour	NP/A,679,287	01	C.P.Silva+	O0925

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Lanthanum

139

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	Many	PY	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹¹⁶ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹¹⁷ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹¹⁸ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹¹⁹ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹²⁰ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹²¹ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹²² Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹²³ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹²⁴ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753

<i>p,x</i>	¹²⁷ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹³² Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹³⁴ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	¹³⁶ Cs	CS	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753

58 Cerium 140

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,inel</i>	¹⁴⁰ Ce	DAP	2FR PAR	2.0+08		Jour	NP/A,388,1	82	C.Djalali+	O0805
<i>p,n</i>	¹⁴⁰ Pr	DAP	2JPNTOH	4.1+07		Jour	PL/B,160,369	85	S.Nishihara+	O0802
<i>p,p+α</i>	¹³⁶ Ba	D4A	2FR PAR	1.6+08		Jour	PR/C,7,165	73	D.Bachelier+	O0929

60 Neodymium 142

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,α</i>	¹³⁹ Pr	DAE	2ITYMIL	2.3+07		Jour	ZP/A,354,53	96	P.Guazzoni+	O0936
<i>p,α</i>	¹³⁹ Pr	DE	2ITYMIL	2.3+07		Jour	ZP/A,354,53	96	P.Guazzoni+	O0936

60 Neodymium 143

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,α</i>	¹⁴⁰ Pr	DAE	2ITYMIL	2.3+07		Jour	ZP/A,354,53	96	P.Guazzoni+	O0936
<i>p,α</i>	¹⁴⁰ Pr	DE	2ITYMIL	2.3+07		Jour	ZP/A,354,53	96	P.Guazzoni+	O0936

60 Neodymium 146

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,x</i>	¹⁴⁵ Pr	CS	2JPNJAE	1.5+07	1.4+07	Jour	ANE,29,(10),1209	02	H.Sakane+	22809

60 Neodymium 148

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,x</i>	¹⁴⁷ Pr	CS	2JPNJAE	1.5+07	1.4+07	Jour	ANE,29,(10),1209	02	H.Sakane+	22809

62 Samarium 147

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁴⁷ Eu	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

62 Samarium 152

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,x</i>	¹⁵¹ Pm	CS	2JPNJAE	1.5+07	1.4+07	Jour	ANE,29,(10),1209	02	H.Sakane+	22809
<i>p,el</i>	¹⁵² Sm	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p,incl</i>	¹⁵² Sm	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698

62 Samarium 154

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁵⁴ Sm	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p,incl</i>	¹⁵⁴ Sm	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698

64 Gadolinium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,x</i>	¹⁴⁹ Tb	CS	4RUSLIN	1.0+09	6.0+07	Conf	2001SAROV,,276	Sep 01	Yu.T.Mironov	O0908

64 Gadolinium 155

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,x</i>	¹⁵⁴ Eu	CS	2JPNJAE	1.5+07		Jour	ANE,29,(10),1209	02	H.Sakane+	22809

64 Gadolinium 156

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,γ</i>	incl	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

64 Gadolinium 158

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,x</i>	¹⁵⁷ Eu	CS	2JPNJAE	1.5+07	1.4+07	Jour	ANE,29,(10),1209	02	H.Sakane+	22809

64 Gadolinium 160

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	¹⁶⁰ Gd	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p</i> ,inel	¹⁶⁰ Gd	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698

65 Terbium 159

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,x	¹⁴⁹ Tb	CS	4RUSLIN	1.0+09	6.0+07	Conf	2001SAROV,,276	Sep 01	Yu.T.Mironov	O0908

66 Dysprosium 164

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,x	¹⁶³ Tb	CS	2JPNJAE	1.5+07	1.4+07	Jour	ANE,29,(10),1209	02	H.Sakane+	22809
<i>p</i> ,el	¹⁶⁴ Dy	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p</i> ,inel	¹⁶⁴ Dy	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698

67 Holmium 165

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,n	incl	CSN	2ZZZCER	1.2+09		Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
<i>p</i> ,x	¹⁴⁹ Tb	CS	4RUSLIN	1.0+09	1.3+08	Conf	2001SAROV,,276	Sep 01	Yu.T.Mironov	O0908

68 Erbium 166

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	¹⁶⁶ Er	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p</i> ,inel	¹⁶⁶ Er	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698

68 Erbium 168

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	¹⁶⁸ Er	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p</i> ,inel	¹⁶⁸ Er	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698

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Erbium

170

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,x	^{169}Ho	CS	2JPNJAE	1.5+07	1.4+07	Jour	ANE,29,(10),1209	02	H.Sakane+	22809

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Thulium

169

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	^{149}Tb	CS	4RUSLIN	1.0+09	1.3+08	Conf	2001SAROV,,276	Sep 01	Yu.T.Mironov	O0908

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Ytterbium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

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Ytterbium

174

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,x	^{173}Tm	CS	2JPNJAE	1.5+07	1.3+07	Jour	ANE,29,(10),1209	02	H.Sakane+	22809
p,el	^{174}Yb	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
$p,incl$	^{174}Yb	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698

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Ytterbium

176

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,x	^{175}Tm	CS	2JPNJAE	1.5+07	1.4+07	Jour	ANE,29,(10),1209	02	H.Sakane+	22809
p,el	^{176}Yb	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
$p,incl$	^{176}Yb	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698

72

Hafnium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

72

Hafnium

178

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

<i>p,el</i>	¹⁷⁸ Hf	DA	2JPNOSA	6.5+07		Jour	PR/C,33,834	86	H.Ogawa+	O0697
<i>p,incl</i>	¹⁷⁸ Hf	DAP	2JPNOSA	6.5+07		Jour	PR/C,33,834	86	H.Ogawa+	O0697

72 Hafnium 179

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁷⁹ Ta	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

72 Hafnium 180

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁸⁰ Hf	DA	2JPNOSA	6.5+07		Jour	PR/C,33,834	86	H.Ogawa+	O0697
<i>p,incl</i>	¹⁸⁰ Hf	DAP	2JPNOSA	6.5+07		Jour	PR/C,33,834	86	H.Ogawa+	O0697

73 Tantalum 181

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹⁸⁰ Ta	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,α</i>	¹⁷⁸ Lu	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,n+p</i>	¹⁸⁰ Hf	?	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>n,p</i>	¹⁸¹ Hf	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-258	Jun 01	A.A.Filatenkov+	41424
<i>p,α</i>	incl	CS	2JPNTOK	5.6+07		Jour	NP,47,19	63	J.Muto+	O0759
<i>p,α</i>	incl	DA	2JPNTOK	3.0+07	5.6+07	Jour	NP,47,19	63	J.Muto+	O0759
<i>p,α</i>	incl	DAE	2JPNTOK	3.0+07	5.6+07	Jour	NP,47,19	63	J.Muto+	O0759
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,n</i>	¹⁸¹ W	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,x</i>	Many	PY	2ZZZCER	6.0+08		Jour	NIM/B,62,535	92	R.Eder+	O0762
<i>p,x</i>	Many	PY	2ZZZCER	6.0+08		Jour	PS,34,578	86	T.Bjornstad+	O0834
<i>p,x</i>	¹⁴⁹ Tb	CS	4RUSLIN	1.0+09	2.4+08	Conf	2001SAROV,,276	Sep 01	Yu.T.Mironov	O0908

74 Tungsten 181

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,x</i>	⁷ Be	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
<i>p,x</i>	²⁴ Na	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
<i>p,x</i>	²⁸ Mg	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
<i>p,x</i>	⁴³ K	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
<i>p,x</i>	⁴⁸ Sc	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
<i>p,x</i>	⁴⁸ V	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
<i>p,x</i>	⁵¹ Cr	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
<i>p,x</i>	⁵⁴ Mn	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
<i>p,x</i>	⁶⁹ Zn	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
<i>p,x</i>	⁷⁴ As	CS	4RUSITE	2.6+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781

<i>p,x</i>	¹⁵³ Dy	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁵⁵ Dy	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁵⁷ Dy	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁵⁶ Ho	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁵⁶ Ho	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁵⁷ Ho	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶⁰ Ho	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁵⁶ Er	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁵⁷ Er	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁵⁹ Er	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁶⁰ Er	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶¹ Er	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶¹ Er	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁶¹ Tm	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶¹ Tm	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁶³ Tm	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶⁵ Tm	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶⁶ Tm	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶² Yb	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁶⁶ Yb	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶⁷ Yb	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶⁷ Lu	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁶⁹ Lu	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷⁰ Lu	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷¹ Lu	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷² Lu	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷⁰ Hf	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷¹ Hf	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷³ Hf	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁸¹ Hf	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁸² Hf	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁷² Ta	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁷³ Ta	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁷⁴ Ta	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷⁴ Ta	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁷⁵ Ta	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷⁵ Ta	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁷⁶ Ta	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷⁸ Ta	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷⁸ Ta	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁸² Ta	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁸² Ta	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁸³ Ta	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁸⁴ Ta	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷⁶ W	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷⁶ W	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768
<i>p,x</i>	¹⁷⁷ W	CS	4RUSITE	2.6+09	Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	00781
<i>p,x</i>	¹⁷⁷ W	CS	2FR SAC	8.5+08	Jour	NIM/B,160,73	00	E.Porras+	00768

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Tungsten

180

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹⁷⁹ W	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428

74 Tungsten 182

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	¹⁷⁹ Hf	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,p</i>	¹⁸² Ta	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>p,el</i>	¹⁸² W	DA	2JPNOSA	6.5+07		Jour	PR/C,33,834	86	H.Ogawa+	O0697
<i>p,inel</i>	¹⁸² W	DAP	2JPNOSA	6.5+07		Jour	PR/C,33,834	86	H.Ogawa+	O0697

74 Tungsten 183

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	¹⁸⁰ Hf	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,p</i>	¹⁸³ Ta	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>p,inel</i>	¹⁸³ W	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901

74 Tungsten 184

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	¹⁸¹ Hf	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,p</i>	¹⁸⁴ Ta	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>p,el</i>	¹⁸⁴ W	DA	2JPNOSA	6.5+07		Jour	PR/C,33,834	86	H.Ogawa+	O0697
<i>p,inel</i>	¹⁸⁴ W	DAP	2JPNOSA	6.5+07		Jour	PR/C,33,834	86	H.Ogawa+	O0697

74 Tungsten 186

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹⁸⁵ W	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,α</i>	¹⁸³ Hf	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,p</i>	¹⁸⁶ Ta	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>p,α</i>	¹⁸³ Ta	TT	2JPNJAE	1.4+07		Jour	ARI,47,171	96	N.Shigeta+	O0772

75 Rhenium 185

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	¹⁸² Ta	CS	4RUSRI	1.4+07		Rept	RI-259	03	A.A.Filatenkov+	41428

76 Osmium 186

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	¹⁸⁶ Re	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428

76 Osmium 188

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	¹⁸⁸ Re	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428

76 Osmium 189

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	¹⁸⁹ Re	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428

76 Osmium 190

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	¹⁸⁷ W	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,p</i>	¹⁹⁰ Re	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428

76 Osmium 192

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁹² Os	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p,inel</i>	¹⁹² Os	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698

77 Iridium 191

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹⁹⁰ Ir	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,2n</i>	¹⁹⁰ Ir	?	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,α</i>	¹⁸⁸ Re	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n,p</i>	¹⁹¹ Os	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428

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Iridium

193

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
$n,2n$	^{192}Ir	?	4RUSRI	1.4+07	1.5+07	Rept	RI-259		03	A.A.Filatenkov+	41428
n,α	^{190}Re	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259		03	A.A.Filatenkov+	41428
n,p	^{193}Os	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259		03	A.A.Filatenkov+	41428

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Platinum

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
p,n	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199		87	J.Raisanen+	O0901

78

Platinum

192

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
$n,2n$	^{191}Pt	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259		03	A.A.Filatenkov+	41428

78

Platinum

194

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,α	^{191}Os	CS	4RUSRI	1.5+07		Rept	RI-259		03	A.A.Filatenkov+	41428
n,p	^{194}Ir	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259		03	A.A.Filatenkov+	41428
p,inel	^{194}Pt	DAP	1USAMSU	3.5+07		Jour	PR/C,23,1414		Apr 81	P.T.Deason+	C0969
p,inel	^{194}Pt	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199		87	J.Raisanen+	O0901

78

Platinum

195

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,p	^{195}Ir	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259		03	A.A.Filatenkov+	41428
p,n	^{195}Au	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199		87	J.Raisanen+	O0901

78

Platinum

196

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,α	^{193}Os	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259		03	A.A.Filatenkov+	41428
n,p	^{196}Ir	CS	4RUSRI	1.3+07	1.5+07	Rept	RI-259		03	A.A.Filatenkov+	41428
p,inel	^{196}Pt	DAP	1USAMSU	3.5+07		Jour	PR/C,23,1414		Apr 81	P.T.Deason+	C0969

78

Platinum

198

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,incl	¹⁹⁸ Pt	DAP	1USAMSU	3.5+07		Jour	PR/C,23,1414	Apr 81	P.T.Deason+	C0969

79

Gold

197

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,2 <i>n</i>	¹⁹⁶ Au	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n</i> , α	¹⁹⁴ Ir	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n</i> , <i>p</i>	¹⁹⁷ Pt	CS	4RUSRI	1.4+07	1.5+07	Rept	RI-259	03	A.A.Filatenkov+	41428
<i>n</i> ,tot		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,66,(2),025801	02	K.Wisshak+	22813
<i>p</i> ,3 <i>n</i>	¹⁹⁵ Hg	CS	2JPNTOK	1.9+07	5.0+07	Jour	PR/C,41,889	90	Y.Nagame+	O0872
<i>p</i> , α	incl	CS	2JPNTOK	5.6+07		Jour	NP,47,19	63	J.Muto+	O0759
<i>p</i> , α	incl	DAE	2JPNTOK	5.6+07		Jour	NP,47,19	63	J.Muto+	O0759
<i>p</i> ,incl	¹⁹⁷ Au	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p</i> , <i>n</i>	incl	CSN	2ZZZCER	1.2+09		Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
<i>p</i> , <i>n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p</i> , <i>n</i> + <i>p</i>	¹⁹⁶ Au	CS	2JPNTOK	1.4+07	4.9+07	Jour	PR/C,41,889	90	Y.Nagame+	O0872
<i>p</i> , <i>x</i>	¹⁴⁹ Tb	CS	4RUSLIN	1.0+09	4.4+08	Conf	2001SAROV,,276	Sep 01	Yu.T.Mironov	O0908
³ He,2 <i>p</i>	¹⁹⁸ Au	CS	2JPNTOK	1.9+07	3.9+07	Jour	PR/C,41,889	90	Y.Nagame+	O0872
³ He,4 <i>n</i>	¹⁹⁶ Tl	CS	2JPNTOK	2.3+07	3.9+07	Jour	PR/C,41,889	90	Y.Nagame+	O0872
³ He, α	¹⁹⁶ Au	CS	2JPNTOK	1.6+07	3.9+07	Jour	PR/C,41,889	90	Y.Nagame+	O0872
α ,3 <i>n</i>	¹⁹⁸ Tl	CS	2JPNTOK	2.9+07	3.9+07	Jour	PR/C,41,889	90	Y.Nagame+	O0872
α , <i>f</i>		CS	2FR SAC	2.8+08		Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
α , <i>f</i>		DA	2FR SAC	2.8+08		Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
α , <i>f</i>		DAA	2FR SAC	2.8+08		Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
α , <i>n</i> + α	¹⁹⁶ Au	CS	2JPNTOK	2.4+07	3.9+07	Jour	PR/C,41,889	90	Y.Nagame+	O0872

80

Mercury

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> , <i>x</i>	¹⁸⁷ W	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁸³ Os	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁸⁵ Os	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁸⁸ Pt	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁹² Au	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁹⁴ Au	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁹⁶ Au	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁹⁸ Au	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁹⁵ Hg	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁹⁷ Hg	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	²⁰³ Hg	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁰⁵ Ag	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹⁰⁶ Ag	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹¹¹ In	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹¹³ Sn	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹²⁰ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p</i> , <i>x</i>	¹²² Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768

<i>p,x</i>	¹²⁷ Sb	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹¹⁹ Te	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²¹ Te	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²³ I	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁴ I	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹²⁶ I	CS	2FR SAC	1.7+09		Jour	NIM/B,160,73	00	E.Porras+	O0768

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Thallium

205

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,inel</i>	²⁰⁵ Tl	DAP	1USALRL	2.0+07		Jour	NP/A,222,65	74	C.Glashausser+	O0796

82

Lead

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,d</i>	incl	CSP	2BLGLVN	6.3+07		Jour	PR/C,66,014601	Jul 02	M.Kerveno+	22812
<i>n,p</i>	incl	CSP	2BLGLVN	6.3+07		Jour	PR/C,66,014601	Jul 02	M.Kerveno+	22812
<i>n,t</i>	incl	CSP	2BLGLVN	6.3+07		Jour	PR/C,66,014601	Jul 02	M.Kerveno+	22812
<i>p,f</i>	⁹⁵ Zr	CS	2SWTPSI	3.3+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,f</i>	⁹⁹ Mo	CS	2SWTPSI	4.5+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,f</i>	¹⁰³ Ru	CS	2SWTPSI	3.1+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,f</i>	¹⁰⁶ Ru	CS	2SWTPSI	3.7+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,f</i>	¹⁰⁵ Rh	CS	2SWTPSI	6.4+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,f</i>	¹¹⁰ Ag	CS	2SWTPSI	6.7+07		Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,f</i>	¹²⁴ Sb	CS	2SWTPSI	4.0+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,f</i>	¹²⁵ Sb	CS	2SWTPSI	6.7+07		Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,n</i>	incl	DAE	2FR FR	8.0+08	1.6+09	Jour	PRL,82,4412	May 99	X.Ledoux+	O0892
<i>p,n</i>	incl	PY	4RUSITE	2.5+08		Jour	ZP/A,311,363	83	Yu.V.Ryabov+	O0836
<i>p,n</i>	incl	PY	2FR FR	8.0+08	1.6+09	Jour	PRL,82,4412	May 99	X.Ledoux+	O0892
<i>p,n</i>	incl	TT	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
<i>p,p</i>	incl	MLT	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,π⁻</i>	incl	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,π⁻</i>	incl	DAE	4ZZZDUB	6.0+08		Jour	YF,26,966	77	Yu.A.Batusov+	O0831
<i>p,π⁺</i>	incl	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,π⁺</i>	incl	DAE	4ZZZDUB	6.0+08		Jour	YF,26,966	77	Yu.A.Batusov+	O0831
<i>p,t</i>	incl	CS	1USACHI	2.0+06		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,t</i>	incl	CS	1USABNL	4.5+08		Jour	PR,101,1557	56	L.A.Currie+	C0836
<i>p,tot</i>		CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,X+p</i>	^{nat} Pp	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,X+p</i>	^{nat} Pn	CS	2FR SAC	8.0+08	1.6+09	Jour	ZP/A,340,325	91	M.Trzaska+	O0837
<i>p,x</i>	⁹⁵ Zr	CS	2SWTPSI	3.3+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	⁹⁹ Mo	CS	2SWTPSI	4.5+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	¹⁰³ Ru	CS	2SWTPSI	3.7+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	¹⁰⁶ Ru	CS	2SWTPSI	3.7+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	¹⁰⁵ Rh	CS	2SWTPSI	6.4+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	¹¹⁰ Ag	CS	2SWTPSI	6.7+07		Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	¹²⁴ Sb	CS	2SWTPSI	4.0+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	¹²⁵ Sb	CS	2SWTPSI	6.7+07		Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	¹⁵⁰ Dy	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁵² Dy	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁵⁴ Ho	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768

p,x	¹⁵⁹ Er	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁶² Yb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁶³ Yb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁶⁵ Lu	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁶⁶ Hf	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁷¹ Ta	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁷² Ta	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁷⁴ Ta	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁷⁷ W	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁷⁶ Re	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁷⁸ Re	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁷⁹ Re	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁸¹ Os	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁸³ Ir	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁸⁴ Pt	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁸⁵ Pt	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁸⁶ Pt	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁸⁶ Au	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁸⁷ Au	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁸⁹ Au	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁰ Au	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁰ Hg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹¹ Hg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹² Hg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹³ Hg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁹ Hg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	²⁰³ Hg	CS	2SWTPSI	4.1+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnenn	00920
p,x	²⁰³ Hg	CS	2SWTPSI	4.3+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnenn+	00906
p,x	¹⁹⁴ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁵ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁷ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁸ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁹ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	²⁰⁰ Tl	CS	2SWTPSI	4.3+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnenn+	00906
p,x	²⁰⁰ Tl	CS	2SWTPSI	4.3+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnenn	00920
p,x	²⁰⁰ Tl	CS	2SWTPSI	5.3+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnenn+	00906
p,x	²⁰⁰ Tl	CS	2SWTPSI	5.3+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnenn	00920
p,x	²⁰¹ Tl	CS	2SWTPSI	3.3+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnenn+	00906
p,x	²⁰¹ Tl	CS	2SWTPSI	3.3+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnenn	00920
p,x	²⁰² Tl	CS	2SWTPSI	2.2+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnenn+	00906
p,x	²⁰² Tl	CS	2SWTPSI	2.2+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnenn	00920
p,x	¹⁹⁴ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁵ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁷ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁸ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	¹⁹⁹ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	²⁰⁰ Pb	CS	2SWTPSI	4.5+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnenn+	00906
p,x	²⁰⁰ Pb	CS	2SWTPSI	4.5+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnenn	00920
p,x	²⁰¹ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	²⁰¹ Pb	CS	2SWTPSI	3.3+07	6.9+07	Jour	RCA,89,697	01	J.Kuhnenn+	00906
p,x	²⁰¹ Pb	CS	2SWTPSI	3.3+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnenn	00920
p,x	²⁰² Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	²⁰³ Pb	CS	2SWTPSI	1.4+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnenn	00920
p,x	²⁰³ Pb	CS	2SWTPSI	9.0+06	6.9+07	Jour	RCA,89,697	01	J.Kuhnenn+	00906
p,x	²⁰³ Pb	CS	2SWTPSI	9.0+06	6.9+07	Thes	KUHNHENN	01	J.Kuhnenn	00920
p,x	²⁰⁴ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	00768
p,x	²⁰³ Bi	CS	2SWTPSI	9.0+06	6.9+07	Jour	RCA,89,697	01	J.Kuhnenn+	00906

<i>p,x</i>	²⁰³ Bi	CS	2SWTPSI	9.0+06	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,x</i>	²⁰⁴ Bi	CS	2SWTPSI	9.0+06	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	²⁰⁴ Bi	CS	2SWTPSI	9.0+06	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,x</i>	²⁰⁵ Bi	CS	2SWTPSI	9.0+06	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	²⁰⁵ Bi	CS	2SWTPSI	9.0+06	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,x</i>	²⁰⁶ Bi	CS	2SWTPSI	9.0+06	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	²⁰⁶ Bi	CS	2SWTPSI	9.0+06	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
<i>p,x</i>	²⁰⁷ Bi	CS	2SWTPSI	9.0+06	6.9+07	Jour	RCA,89,697	01	J.Kuhnhen+	O0906
<i>p,x</i>	²⁰⁷ Bi	CS	2SWTPSI	9.0+06	6.9+07	Thes	KUHNHENN	01	J.Kuhnhen	O0920
⁶ He,2n		CS	1USAMSU	1.4+08		Jour	PR/C,65,034306	02	J.Wang+	C0867
⁴³ V,tcc		CS	2GERGSI	1.9+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁴ V,tcc		CS	2GERGSI	1.9+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁵ V,tcc		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁶ V,tcc		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁷ V,tcc		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁴ Cr,tcc		CS	2GERGSI	1.9+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁵ Cr,tcc		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁶ Cr,tcc		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁷ Cr,tcc		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁸ Cr,tcc		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁹ Cr,tcc		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁶ Mn,tcc		CS	2GERGSI	2.0+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁷ Mn,tcc		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁷ Mn,x	Many	PY	2GERGSI	2.4+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁴⁸ Mn,tcc		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁸ Mn,x	Many	PY	2GERGSI	2.5+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁴⁹ Mn,tcc		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁹ Mn,x	Many	PY	2GERGSI	2.5+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁵⁰ Mn,tcc		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵⁰ Mn,x	Many	PY	2GERGSI	2.6+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁵¹ Mn,tcc		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵¹ Mn,x	Many	PY	2GERGSI	2.7+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁴⁸ Fe,tcc		CS	2GERGSI	2.1+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁹ Fe,tcc		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁴⁹ Fe,x	Many	PY	2GERGSI	2.5+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁵⁰ Fe,tcc		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵⁰ Fe,x	Many	PY	2GERGSI	2.6+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁵¹ Fe,tcc		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵¹ Fe,x	Many	PY	2GERGSI	2.7+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁵² Fe,tcc		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵² Fe,x	Many	PY	2GERGSI	2.7+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁵³ Fe,tcc		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵³ Fe,x	Many	PY	2GERGSI	2.8+10		Jour	ZP/A,352,77	95	B.Blank+	O0952
⁵⁰ Co,tcc		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵¹ Co,tcc		CS	2GERGSI	2.2+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵² Co,tcc		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵³ Co,tcc		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵⁴ Co,tcc		CS	2GERGSI	2.4+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵⁵ Co,tcc		CS	2GERGSI	2.4+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵² Ni,tcc		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵³ Ni,tcc		CS	2GERGSI	2.3+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵⁴ Ni,tcc		CS	2GERGSI	2.4+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵⁵ Ni,tcc		CS	2GERGSI	2.4+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵⁶ Ni,tcc		CS	2GERGSI	2.5+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵⁷ Ni,tcc		CS	2GERGSI	2.5+10		Jour	ZP/A,352,69	95	B.Blank+	O0945
⁵⁷ Ni,x	Many	PY	2GERGSI	3.0+10		Jour	ZP/A,352,77	95	B.Blank+	O0952

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Lead

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{203}Pb	CS	2ZZZGEL	1.6+07	2.0+07	Rept	EUR-20820-EN	03	V.Semkova+	22822
n,inel	^{204}Pb	CS	2ZZZGEL	3.4+06	2.1+07	Rept	EUR-20820-EN	03	V.Semkova+	22822
p,t	^{202}Pb	DAP	2JPNTOK	5.2+07		Jour	PR/C,9,266	74	H.Orihara+	O0795

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Lead

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{206}Pb	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
p,inel	^{206}Pb	DAP	1USALRL	2.0+07		Jour	NP/A,222,65	74	C.Glashausser+	O0796
p,t	^{204}Pb	DAP	2JPNTOK	5.2+07		Jour	PR/C,9,266	74	H.Orihara+	O0795

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Lead

208

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{208}Tl	CS	2ZZZGEL	1.5+07	2.1+07	Rept	EUR-20820-EN	03	V.Semkova+	22822
π^+,n	incl	PY	2ZZZCER	1.9+09	4.9+09	Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
K^+,n	incl	PY	2ZZZCER	2.5+09		Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
π^-,n	incl	PY	2ZZZCER	3.9+09	4.8+09	Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
$p,2n+p$	^{206}Pb	CSP	2JPNTOK	2.4+07	5.2+07	Jour	NP/A,262,52	76	H.Kawakami+	O0791
$p,3n$	^{206}Bi	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
$p,4n$	^{205}Bi	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
$p,5n$	^{204}Bi	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
$p,6n$	^{203}Bi	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
p,α	^{205}Tl	DAP	2ITYMIL	2.0+07		Jour	JP/G,4,1903	78	R.Bonetti+	O0928
p,α	^{205}Tl	DAP	2GERMUN	2.2+07		Jour	PR/C,49,2784	94	P.Guazzoni+	O0933
p,α	^{205}Tl	DAP	1USALRL	3.5+07		Jour	NP/A,222,65	74	C.Glashausser+	O0796
p,α	^{205}Tl	POD	2GERMUN	2.2+07		Jour	PR/C,49,2784	94	P.Guazzoni+	O0933
p,d	incl	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
p,d	^{207}Pb	DAP	3ISLHEB	1.2+07		Jour	PR/C,9,2340	74	E.Friedman+	O0794
p,el	^{208}Pb	DA	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
p,el	^{208}Pb	POD	2UK NIN	4.9+07		Jour	NP/A,165,384	71	G.S.Mani+	O0788
p,n	incl	CSN	2ZZZCER	1.2+09	4.2+09	Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
p,n	incl	PY	2ZZZCER	1.2+09	4.2+09	Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
p,n	^{208}Bi	DAP	2JPNTOH	4.1+07		Jour	PL/B,160,369	85	S.Nishihara+	O0802
p,n	^{208}Bi	PY	2SF HLS	7.0+06	9.0+06	Jour	NIM/B,28,199	87	J.Raisanen+	O0901
$p,n+p$	^{207}Pb	CSP	2JPNTOK	2.4+07	5.2+07	Jour	NP/A,262,52	76	H.Kawakami+	O0791
p,t	^{206}Pb	DAP	2JPNTOK	5.2+07		Jour	PR/C,9,266	74	H.Orihara+	O0795
$p,X+\pi$	^2H	DA	4ZZZDUB	6.7+08		Jour	NP/A,195,581	72	L.S.Azhgirei+	O0761
p,x	^{46}Sc	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
p,x	^{59}Fe	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
p,x	^{65}Zn	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
p,x	^{74}As	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
p,x	^{75}Se	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781
p,x	^{82}Br	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titarenko+	O0781

<i>p,x</i>	¹⁸² Re	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸³ Re	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸² Os	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸³ Os	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸⁵ Os	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸⁴ Ir	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸⁵ Ir	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸⁶ Ir	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸⁸ Ir	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁰ Ir	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸⁸ Pt	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁸⁹ Pt	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹¹ Pt	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹² Au	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁴ Au	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁵ Au	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁶ Au	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁸ Au	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹² Hg	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹³ Hg	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁵ Hg	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁷ Hg	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	²⁰³ Hg	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁶ Tl	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁸ Tl	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁹ Tl	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	²⁰⁰ Tl	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	²⁰¹ Tl	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	²⁰² Tl	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁷ Pb	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	¹⁹⁸ Pb	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	²⁰⁰ Pb	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	²⁰¹ Pb	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	²⁰³ Pb	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>p,x</i>	²⁰⁴ Pb	CS	4RUSITE	1.0+09		Rept	LA-UR-00-3597,	00	Yu.E.Titareno+	O0781
<i>d,n</i>	incl	PY	2ZZZCER	9.0+08	3.5+09	Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
¹⁶ O,el	²⁰⁸ Pb	DA	3BZLUSP	7.4+07	7.8+07	Jour	NP/A,679,287	01	C.P.Silva+	O0925

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Bismuth

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁶⁰ Cu	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁶⁹ Zn	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁶⁶ Ga	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁶⁷ Ga	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁷² Ga	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁷³ Ga	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁶⁶ Ge	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁶⁷ Ge	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁶⁹ Ge	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	⁷⁵ Ge	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
<i>p,3n</i>	²⁰⁷ Po	CS	4RUSITE	1.3+08		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,3n</i>	²⁰⁷ Po	CS	2SWTPSI	2.0+07	4.2+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,4n</i>	²⁰⁶ Po	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,4n</i>	²⁰⁶ Po	CS	2SWTPSI	2.2+07	6.9+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,5n</i>	²⁰⁵ Po	CS	4RUSITE	1.3+08		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,6n</i>	²⁰⁴ Po	CS	4RUSITE	1.3+08		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,7n</i>	²⁰³ Po	CS	4RUSITE	1.3+08		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,8n</i>	²⁰² Po	CS	4RUSITE	1.3+08		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,α</i>	incl	CS	2JPNTOK	5.6+07		Jour	NP,47,19			63	J.Muto+	O0759
<i>p,α</i>	incl	DA	2JPNTOK	5.6+07		Jour	NP,47,19			63	J.Muto+	O0759
<i>p,α</i>	incl	DAE	2JPNTOK	5.6+07		Jour	NP,47,19			63	J.Muto+	O0759
<i>p,α</i>	incl	DAE	2SWTVIL	7.2+07		Jour	NP/A,420,1			84	M.Kozlowski+	O0774
<i>p,α</i>	incl	POD	2SWTVIL	7.2+07		Jour	NP/A,420,1			84	M.Kozlowski+	O0774
<i>p,α</i>	²⁰⁶ Pb	DAP	2GERMUN	2.2+07		Jour	PR/C,47,1129			93	E.Gadioli+	O0931
<i>p,α</i>	²⁰⁶ Pb	DAP	2GERMUN	2.2+07		Jour	PR/C,49,2784			94	P.Guazzoni+	O0933
<i>p,α</i>	²⁰⁶ Pb	POD	2GERMUN	2.2+07		Jour	PR/C,47,1129			93	E.Gadioli+	O0931
<i>p,α</i>	²⁰⁶ Pb	POD	2GERMUN	2.2+07		Jour	PR/C,49,2784			94	P.Guazzoni+	O0933
<i>p,f</i>	¹ Nn	FY	1CANTMF	4.8+08		Jour	PR/C,41,1050			90	Z.Fraenkel+	O0808
<i>p,f</i>		KE	1CANTMF	4.8+08		Jour	PR/C,41,1050			90	Z.Fraenkel+	O0808
<i>p,f</i>	⁹⁵ Zr	CS	2SWTPSI	3.2+07	6.9+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,f</i>	⁹⁵ Nb	CS	2SWTPSI	6.9+07		Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,f</i>	⁹⁹ Mo	CS	2SWTPSI	2.8+07	4.2+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,f</i>	¹⁰³ Ru	CS	2SWTPSI	2.0+07	6.9+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,f</i>	¹⁰⁶ Ru	CS	2SWTPSI	3.5+07	6.9+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,f</i>	¹¹⁰ Ag	CS	2SWTPSI	5.7+07	6.9+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,f</i>	¹²⁴ Sb	CS	2SWTPSI	3.9+07	6.9+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,f</i>	¹²⁵ Sb	CS	2SWTPSI	4.1+07	6.9+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,f</i>	¹²³ Te	CS	2SWTPSI	6.9+07		Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,f</i>	¹³⁴ Cs	CS	2SWTPSI	5.2+07	6.9+07	Thes	KUHNHENN			01	J.Kuhnhen	O0920
<i>p,x</i>	³ He	DAE	2SWTVIL	7.2+07		Jour	NP/A,420,1			84	M.Kozlowski+	O0774
<i>p,x</i>	³ He	POD	2SWTVIL	7.2+07		Jour	NP/A,420,1			84	M.Kozlowski+	O0774
<i>p,x</i>	Many	CS	2FR PAR	1.5+08	6.3+07	Jour	NP,39,447			62	H.Gauvin+	C0394
<i>p,x</i>	⁶⁰ Co	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁷⁴ As	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁷⁶ As	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁸² Br	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁸² Rb	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁸³ Rb	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁸⁵ Sr	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁸⁷ Y	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁸⁸ Y	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁹⁰ Y	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁸⁸ Zr	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁸⁹ Zr	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁹⁵ Zr	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁹⁵ Nb	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁹⁹ Mo	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁹⁵ Tc	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	⁹⁶ Tc	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	¹⁰¹ Rh	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	¹⁰² Rh	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	¹⁰⁵ Rh	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900
<i>p,x</i>	¹¹¹ In	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73			98	Yu.E.Titarenko+	O0900

<i>p,x</i>	¹⁹⁸ Au	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹⁰ Hg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹¹ Hg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹² Hg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹² Hg	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹³ Hg	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹³ Hg	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹⁵ Hg	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰³ Hg	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹⁴ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁴ Tl	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹⁵ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁶ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁶ Tl	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹⁸ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁸ Tl	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹⁹ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁹ Tl	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰⁰ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰⁰ Tl	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰¹ Tl	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰¹ Tl	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰² Tl	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰² Tl	CS	2SWTPSI	5.2+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhenh	O0920
<i>p,x</i>	¹⁹⁵ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁷ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁷ Pb	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹⁸ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁸ Pb	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹⁹ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁹ Pb	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰⁰ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰⁰ Pb	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰¹ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰¹ Pb	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰² Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰² Pb	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰³ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰³ Pb	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰³ Pb	CS	2SWTPSI	1.5+07	4.2+07	Thes	KUHNHENN	01	J.Kuhnhenh	O0920
<i>p,x</i>	²⁰⁴ Pb	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰⁴ Pb	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	¹⁹⁸ Bi	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	¹⁹⁹ Bi	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰⁰ Bi	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰⁰ Bi	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰¹ Bi	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰¹ Bi	CS	4RUSITE	1.3+08		Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰² Bi	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰² Bi	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰³ Bi	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰³ Bi	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰⁴ Bi	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768
<i>p,x</i>	²⁰⁴ Bi	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰⁵ Bi	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titareenko+	O0900
<i>p,x</i>	²⁰⁵ Bi	CS	2SWTPSI	2.4+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhenh	O0920
<i>p,x</i>	²⁰⁶ Bi	CS	2FR SAC	1.2+09		Jour	NIM/B,160,73	00	E.Porras+	O0768

<i>p,x</i>	²⁰⁶ Bi	CS	4RUSITE	1.3+08	1.5+09	Jour	NIM/A,414,73	98	Yu.E.Titarenko+	O0900
<i>p,x</i>	²⁰⁶ Bi	CS	2SWTPSI	2.4+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhenh	O0920
<i>p,x</i>	²⁰⁷ Bi	CS	2SWTPSI	1.5+07	6.9+07	Thes	KUHNHENN	01	J.Kuhnhenh	O0920
<i>p,x</i>	²⁰⁷ Bi	CS	4RUSITE	1.5+09		Jour	NIM/A,414,73	98	Yu.E.Titarenko+	O0900
⁶ Li,el	²⁰⁹ Bi	DA	1USAFSU	3.0+07	3.3+07	Jour	PR/C,68,054601	Nov 03	N.Keeley+	C0956

90 Thorium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	Many	PY	2ZZZCER	6.0+08		Jour	PS,34,578	86	T.Bjornstad+	O0834

90 Thorium 232

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	²³² Th	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p,f</i>		CS	2FR SAC	1.4+08	1.0+09	Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
<i>p,f</i>		DA	2FR SAC	1.4+08	1.0+09	Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
<i>p,f</i>		DAA	2FR SAC	1.4+08	1.0+09	Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
<i>p,f</i>	⁸⁴ Br	CS	2JPNTOH	1.3+07		Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	⁸⁸ Kr	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	⁹¹ Sr	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	⁹² Sr	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	⁹⁷ Zr	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	⁹⁹ Nb	CS	2JPNTOH	1.3+07		Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	⁹⁹ Mo	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹⁰⁵ Ru	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹¹² Pd	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹¹⁶ Ag	CS	2JPNTOH	1.3+07		Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	¹¹⁵ Cd	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹²¹ Cd	CS	2JPNTOH	1.3+07	2.6+07	Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	¹²⁷ Sb	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹³² Sb	CS	2JPNTOH	1.3+07		Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	¹³² Te	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹³² I	CS	2JPNTOH	1.3+07		Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	¹³⁴ I	CS	2JPNTOH	1.3+07		Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	¹³⁵ I	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹³⁶ I	CS	2JPNTOH	1.3+07		Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	¹³⁵ Xe	CS	2JPNTOH	1.3+07	2.6+07	Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	¹³⁶ Cs	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹³⁸ Cs	CS	2JPNTOH	1.3+07		Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	¹⁴¹ Ce	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹⁴³ Ce	CS	2JPNJAE	8.0+06	2.2+07	Jour	RCA,78,3	97	Y.Nagame+	O0829
<i>p,f</i>	¹⁴³ Ce	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,f</i>	¹⁴⁸ Pr	CS	2JPNTOH	1.3+07		Jour	JRN,239,109	99	S.Goto+	O0830
<i>p,f</i>	¹⁴⁷ Nd	DA	2JPNJCL	1.5+07		Jour	PR/C,25,909	82	H.Kudo+	O0766
<i>p,inel</i>	²³² Th	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p,p+α</i>	²²⁸ Ra	D4A	2FR PAR	1.6+08		Jour	PR/C,7,165	73	D.Bachelier+	O0929
<i>p,t</i>	²³⁰ Th	DAP	2GERMUU	2.2+07		Jour	ZP/A,350,13	94	B.Ackermann+	O0942
<i>p,x</i>	Many	CS	2ZZZCER	6.0+08		Jour	ZP/A,318,309	84	G.T.Ewan+	O0838
<i>p,x</i>	Many	CS	2FR PAR	8.2+07		Jour	NP,39,447	62	H.Gauvin+	C0394
<i>p,x</i>	Many	PY	4RUSLIN	1.0+09		Jour	NIM/B,70,69	92	V.A.Bolshakov+	O0760

<i>p,x</i>	Many	PY	2ZZZCER	6.0+08		Jour	JIN,37,383	75	H.L.Ravn+	O0753
<i>p,x</i>	Many	PY	2ZZZCER	6.0+08		Jour	PS,34,578	86	T.Bjornstad+	O0834
<i>p,x</i>	Many	PY	2ZZZCER	6.0+08		Jour	ZP/A,325,429	86	M.J.G.Borge+	O0835
<i>p,x</i>	Many	CS	2SWTVIL	6.0+08		Jour	ANE,26,141	99	H.U.Wenger+	O0907
<i>d,f</i>		CS	2FR SAC	7.0+07	1.0+09	Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
<i>d,f</i>		DA	2FR SAC	7.0+07	1.0+09	Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
<i>d,f</i>		DAA	2FR SAC	7.0+07	1.0+09	Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
α,f		CS	2FR SAC	2.8+08	1.0+09	Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
α,f		DA	2FR SAC	2.8+08	1.0+09	Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
α,f		DAA	2FR SAC	2.8+08	1.0+09	Jour	NP/A,422,307	84	F.Saint-Laurent+	O0780
${}^7\text{Li},2n+\alpha$	${}^{233}\text{Pa}$	CS	2JPNJAE	3.0+07	4.6+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
${}^7\text{Li},3n+\alpha$	${}^{232}\text{Pa}$	CS	2JPNJAE	3.0+07	4.6+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
${}^7\text{Li},5n$	${}^{234}\text{Np}$	CS	2JPNJAE	3.3+07	4.6+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
${}^7\text{Li},n$	${}^{238}\text{Np}$	CS	2JPNJAE	3.0+07	4.6+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
${}^7\text{Li},n+\alpha$	${}^{234}\text{Pa}$	CS	2JPNJAE	3.0+07	4.6+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
${}^7\text{Li},x$	${}^{237}\text{U}$	CS	2JPNJAE	3.0+07	4.6+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765

92 Uranium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	Many	CS	2ZZZCER	6.0+08		Jour	ZP/A,318,309	84	G.T.Ewan+	O0838
<i>p,x</i>	Many	PY	2ZZZCER	6.0+08		Jour	PS,34,578	86	T.Bjornstad+	O0834
${}^3\text{He},x$	Many	PY	2ZZZCER	9.1+08		Jour	PS,34,578	86	T.Bjornstad+	O0834
${}^6\text{He},2n+\alpha$		CS	1USAMSU	1.4+08		Jour	PR/C,65,034306	02	J.Wang+	C0867

92 Uranium 235

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,abs</i>		ALF	4ZZZDUB	2.2+01	2.2+03	Jour	YK,2002,(1-2),45	02	Yu.V.Grigoriev+	41427
<i>n,f</i>		SIF	4ZZZDUB	2.1+00	1.0+03	Jour	YK,2002,(1-2),45	02	Yu.V.Grigoriev+	41427
<i>n,γ</i>	${}^{236}\text{U}$	SIF	4ZZZDUB	2.1+00	1.0+03	Jour	YK,2002,(1-2),45	02	Yu.V.Grigoriev+	41427
<i>n,tot</i>		CS	2UK HAR	2.5-02		Jour	JNE,1,92	Aug 54	P.A.Egelstaff	21179
<i>p,f</i>	${}^1\text{Nn}$	FY	2GERHAM	1.3+07	1.5+07	Jour	PR/C,41,2172	90	M.Strecker+	O0809
<i>p,f</i>		KE	2GERHAM	1.5+07	2.6+07	Jour	PR/C,41,2172	90	M.Strecker+	O0809
<i>p,f</i>	Many	FY	1USAORL	8.0+06	1.3+07	Jour	PR/C,7,2510	73	R.L.Ferguson+	O0799
<i>p,f</i>	Many	KE	1USAORL	8.0+06	1.3+07	Jour	PR/C,7,2510	73	R.L.Ferguson+	O0799
<i>p,f</i>	${}^{134}\text{I}$	CS	2JPNJAE	1.9+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
<i>p,f</i>	${}^{136}\text{I}$	CS	2JPNJAE	1.9+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
${}^{12}\text{C},f$	${}^{134}\text{I}$	CS	2JPNJAE	5.7+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
${}^{12}\text{C},f$	${}^{136}\text{I}$	CS	2JPNJAE	5.7+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
${}^{19}\text{F},f$	${}^{134}\text{I}$	CS	2JPNJAE	5.7+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
${}^{19}\text{F},f$	${}^{136}\text{I}$	CS	2JPNJAE	5.7+07		Jour	RCA,88,1	00	N.Shinohara+	O0764

92 Uranium 236

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	${}^{237}\text{U}$	CS	2UK ALD	3.6+05	1.2+06	Jour	PPS,78,801	61	J.F.Barry+	22539

<i>p,f</i>	¹ Nn	FY	2GERHAM	1.3+07	2.2+07	Jour	PR/C,41,2172	90	M.Strecker+	O0809
<i>p,f</i>		KE	2GERHAM	1.5+07	2.6+07	Jour	PR/C,41,2172	90	M.Strecker+	O0809

92 Uranium 238

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,2n+α</i>	²³³ Pa	CS	2JPNJAE	3.2+07	4.0+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
<i>p,3n+α</i>	²³² Pa	CS	2JPNJAE	3.3+07	4.0+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
<i>p,5n</i>	²³⁴ Np	CS	2JPNJAE	3.2+07	4.0+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
<i>p,el</i>	²³⁸ U	DA	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p,f</i>	¹ Nn	FY	2GERHAM	1.3+07	2.6+07	Jour	PR/C,41,2172	90	M.Strecker+	O0809
<i>p,f</i>	¹ Nn	FY	1CANTMF	4.8+08		Jour	PR/C,41,1050	90	Z.Fraenkel+	O0808
<i>p,f</i>		KE	2GERHAM	1.5+07	2.6+07	Jour	PR/C,41,2172	90	M.Strecker+	O0809
<i>p,f</i>		KE	1CANTMF	4.8+08		Jour	PR/C,41,1050	90	Z.Fraenkel+	O0808
<i>p,f</i>		MLT	2SF JYV	2.0+07	6.0+07	Jour	NIM/A,463,653	01	V.A.Rubchenya+	O0941
<i>p,f</i>	Many	CS	2BLGLVN	3.0+07		Jour	PRL,81,3100	98	S.Franchoo+	O0814
<i>p,f</i>	Many	PY	2SF JYV	2.0+07		Jour	NIM/A,281,539	89	P.Taskinen+	O0735
<i>p,f</i>	Many	PY	2SF JYV	2.5+07		Jour	PR/C,54,2760	96	H.Penttila+	O0844
<i>p,f</i>	Many	PY	2SF JYV	2.5+07		Jour	PL/B,405,230	97	M.Huhta+	O0924
<i>p,f</i>	Many	FY	2SF JYV	2.0+07	6.0+07	Jour	NIM/A,463,653	01	V.A.Rubchenya+	O0941
<i>p,f</i>	Many	MLT	2SF JYV	2.0+07	6.0+07	Jour	NIM/A,463,653	01	V.A.Rubchenya+	O0941
<i>p,f</i>	⁷⁹ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸⁰ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸¹ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸² Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸³ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸⁴ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸⁵ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸⁶ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸⁷ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸⁸ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁸⁹ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁹⁰ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁹¹ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁹² Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁹³ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁹⁴ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁹⁵ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁹⁶ Rb	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	⁹⁹ Mo	CS	1USADAV	1.2+07	6.7+07	Jour	ANS,74,134	Jun 96	M.C.Lagunas-Solar+	C0961
<i>p,f</i>	⁹⁹ Mo	TT	1USADAV	3.0+07		Jour	ANS,74,134	Jun 96	M.C.Lagunas-Solar+	C0961
<i>p,f</i>	¹³⁴ I	CS	2JPNJAE	1.9+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
<i>p,f</i>	¹³⁶ I	CS	2JPNJAE	1.9+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
<i>p,f</i>	¹²¹ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹²² Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹²³ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹²⁴ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹²⁵ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹²⁶ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹²⁷ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹²⁸ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹²⁹ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹³⁰ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹³¹ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777

<i>p,f</i>	¹³² Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹³³ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹³⁴ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹³⁵ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹³⁶ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹³⁷ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹³⁸ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹³⁹ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹⁴⁰ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹⁴¹ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹⁴² Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹⁴³ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹⁴⁴ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹⁴⁵ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹⁴⁶ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,f</i>	¹⁴⁷ Cs	CS	4RUSLIN	1.0+09		Jour	NP/A,348,479	80	B.N.Belyaev+	O0777
<i>p,incl</i>	²³⁸ U	DAP	2JPNOSA	6.5+07		Jour	MSK/A,37,191	88	T.Ichihara	O0698
<i>p,n</i>	incl	CSN	2ZZZCER	1.2+09	4.2+09	Jour	PR/C,56,1909	97	L.Pienkowski+	O0848
<i>p,n</i>	²³⁸ Np	CS	2JPNJAE	2.3+07	4.0+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
<i>p,t</i>	²³⁶ U	DAP	2GERMUU	2.2+07		Jour	ZP/A,356,13	96	H.Baltzer+	O0943
<i>p,x</i>	Many	CS	2SF JYV	2.0+07		Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>p,x</i>	Many	CS	2BLGBLG	3.0+07		Jour	PRL,81,3100	98	S.Franchoo+	O0923
<i>p,x</i>	Many	PY	4RUSLIN	1.0+09		Jour	NIM/B,70,69	92	V.A.Bolshakov+	O0760
<i>p,x</i>	Many	PY	2SF JYV	2.5+07		Jour	PR/C,54,1592	96	G.Lhersonneau+	O0846
<i>p,x</i>	Many	PY	2SF JYV	2.5+07		Jour	PL/B,405,230	97	M.Huhta+	O0924
<i>p,x</i>	Many	PY	2ZZZCER	6.0+08		Jour	NIM,186,307	81	B.Vosicki+	O0763
<i>p,x</i>	Many	CS	2SWTVIL	6.0+08		Jour	ANE,26,141	99	H.U.Wenger+	O0907
<i>p,x</i>	²³⁷ U	CS	2JPNJAE	2.3+07	4.0+07	Jour	RCA,86,79	99	Y.L.Zhao+	O0765
<i>d,f</i>	⁸⁰ Ga	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	⁸⁰ Ge	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	⁸⁰ As	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	¹¹⁰ Tc	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	¹¹² Tc	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	¹¹⁰ Ru	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	¹¹² Ru	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	¹¹⁰ Rh	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	¹¹² Rh	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	¹¹⁴ Rh	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,f</i>	¹¹⁴ Ag	CS	2SF JYV	4.1+07	1.8+07	Jour	PR/C,44,336	91	M.Lieno+	O0825
<i>d,n</i>	incl	PY	2FR PAR	2.0+08		Jour	NIM/B,160,315	00	N.Pauwels+	O0876
¹² C,f	¹³⁴ I	CS	2JPNJAE	5.8+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
¹² C,f	¹³⁶ I	CS	2JPNJAE	5.8+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
¹⁹ F,f	¹³⁴ I	CS	2JPNJAE	5.8+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
¹⁹ F,f	¹³⁶ I	CS	2JPNJAE	5.8+07		Jour	RCA,88,1	00	N.Shinohara+	O0764

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Neptunium

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>p,2n</i>	²³⁶ Pu	CS	2SF JYV	1.6+07	4.0+07	Jour	RCA,88,129	00	J.Aaltonen+	O0770
<i>p,f</i>	¹³⁴ I	CS	2JPNJAE	2.0+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
<i>p,f</i>	¹³⁶ I	CS	2JPNJAE	2.0+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
<i>p,n</i>	²³⁷ Pu	CS	2SF JYV	1.6+07	3.9+07	Jour	RCA,88,129	00	J.Aaltonen+	O0770
<i>p,x</i>	⁴⁸ Sc	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
<i>p,x</i>	⁴⁸ V	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842

p,x	⁷⁴ As	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁸³ Rb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁸⁴ Rb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁸⁶ Rb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁸⁵ Sr	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁹¹ Sr	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁸⁷ Y	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁸⁸ Y	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁸⁹ Zr	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁹⁵ Zr	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁹⁵ Nb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁹⁹ Mo	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁹⁵ Tc	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	⁹⁶ Tc	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁰³ Ru	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁰⁵ Ru	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁰⁶ Rh	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁰⁶ Ag	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹¹⁰ Ag	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹¹⁵ Cd	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹²⁵ Sn	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹¹⁸ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹²⁰ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹²² Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹²⁴ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹²⁶ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹²⁷ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹³² Te	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹³³ Te	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹²⁴ I	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹³¹ I	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹³⁶ Cs	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹³⁸ Cs	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹³¹ Ba	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁴⁰ Ba	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁴⁵ Eu	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁴⁶ Eu	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁴⁷ Eu	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁴⁸ Eu	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁴⁶ Gd	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁵² Tb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁷¹ Lu	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁸⁵ Os	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	¹⁸⁸ Pt	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	²⁰⁶ Po	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	²³⁰ Pa	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	²³⁴ Np	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
p,x	²³⁶ Np	CS	2SF JYV	1.6+07	4.0+07	Jour	RCA,88,129	00	J.Aaltonen+	O0770
p,x	²³⁸ Np	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,301	00	J.Adam+	O0842
¹² C,f	¹³⁴ I	CS	2JPNJAE	5.6+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
¹² C,f	¹³⁶ I	CS	2JPNJAE	5.6+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
¹⁹ F,f	¹³⁴ I	CS	2JPNJAE	5.6+07		Jour	RCA,88,1	00	N.Shinohara+	O0764
¹⁹ F,f	¹³⁶ I	CS	2JPNJAE	5.6+07		Jour	RCA,88,1	00	N.Shinohara+	O0764

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Plutonium

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		?	2UK HAR	Maxwl		Conf	58GENEVA,16,121	Sep 58	D.W.Colvin+	22509

95

Americium

241

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁴⁸ Sc	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁴⁸ V	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁵² V	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁵² Mn	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁵⁶ Mn	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁷² As	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁷⁶ As	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁸² Br	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁸⁴ Br	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁸² Rb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁸³ Rb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹² Sr	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹³ Sr	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁸⁴ Y	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁸⁷ Y	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁸⁸ Y	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹¹ Y	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹⁵ Y	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁸⁹ Zr	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹⁵ Zr	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹⁷ Zr	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹² Nb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹⁶ Nb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹⁷ Nb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹⁹ Mo	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	⁹⁶ Tc	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁰⁴ Tc	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁰³ Ru	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁰⁵ Ru	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁰⁵ Rh	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁰⁸ Rh	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁰⁶ Ag	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹¹⁵ Cd	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹¹⁶ In	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹¹⁸ In	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹¹⁸ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹²² Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹²⁴ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹²⁶ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹²⁷ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹²⁸ Sb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹¹⁹ Te	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹²¹ Te	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹³² Te	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹²⁴ I	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841

<i>p,x</i>	¹³⁰ I	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹³¹ I	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹³² I	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹³⁴ I	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹³⁶ Cs	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁴⁰ Ba	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹³⁵ Ce	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁴⁵ Eu	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁴⁶ Eu	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁵⁶ Tb	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	¹⁹⁸ Au	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841
<i>p,x</i>	²⁴⁰ Am	CS	4ZZZDUB	6.6+08		Conf	2000STPETR,,299	00	J.Adam+	O0841

96 Curium 244

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
0,f		FY	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425
0,f		KE	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425
0,f		NU	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425
0,f	NPART	?	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425

96 Curium 248

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
0,f		FY	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425
0,f		KE	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425
0,f		NU	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425
0,f	NPART	?	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425

98 Californium 252

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
0,f		FY	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425
0,f		KE	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425
0,f		NU	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425
0,f	NPART	?	4RUSLIN	Spont		Conf	2001DUBNA,,288	May 01	A.S.Vorobyev+	41425