

Japan Charged-Particle Nuclear Reaction Data Group (JCPRG)

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Retrieval service is available at:

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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)

1 Hydrogen 1

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,p	^4He	?	1USASC	9.3+06	1.1+07	Jour	NIM/B,219-220,317	04	J.F.Browning+	C1356
$^{14}\text{N,el}$	^1H	DA	1USALBL	6.4+05	5.0+06	Jour	PR/C,72,034312	05	F.Q.Guo+	C1369
$^{14}\text{O,el}$	^1H	DA	1USALBL	9.1+05	6.2+06	Jour	PR/C,72,034312	05	F.Q.Guo+	C1369

1 Hydrogen 2

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,γ	^3He	CSP	1USAINU	1.4+08	2.0+08	Jour	PR/C,45,1810	92	J.Clayton+	C1342
p,γ	^3He	DAE	1USAINU	1.4+08	2.0+08	Jour	PR/C,45,1810	92	J.Clayton+	C1342
p,γ	^3He	DAP	1USAINU	2.0+08		Jour	PR/C,45,1810	92	J.Clayton+	C1342
α,d	^4He	?	1USASC	8.8+06	1.1+07	Jour	NIM/B,219-220,317	04	J.F.Browning+	C1356
α,el	^2H	DA	1USAIBM	9.8+05	2.9+06	Jour	NIM/B,79,493	93	A.J.Kellock+	C1345

1 Hydrogen 3

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,t	^4He	?	1USASC	8.8+06	1.1+07	Jour	NIM/B,219-220,317	04	J.F.Browning+	C1356

1 Hydrogen

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,tot		TSL	2FR ILL	5.6-05	3.3-07	Jour	PRL,94,212502	Jun 05	F.Atchison+	22878

2 Helium 3

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,el	^3He	DA	1USAWAU	9.8+06	1.8+07	Jour	NP/A,184,97	72	M.P.Baker+	C1346
d,p	^4He	DA	1USATAM	5.4+07	8.6+07	Jour	NIM/A,284,356	89	C.A.Gagliardi+	C1366
d,p	^4He	DA	1USAWAU	9.8+06	1.7+07	Jour	NP/A,184,97	72	M.P.Baker+	C1346
d,p	^4He	POD	1USATNL	1.3+07	1.6+07	Jour	NIM/A,455,620	00	K.A.Fletcher+	C1348

4 Beryllium 9

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

$n,inel$	9Be	CS	2UK OXF	2.5+06		Jour	PR,82,969	Jun 51	M.A.Grace+	21381
$\alpha,n+p$	^{11}B	DAP	1USAYAL	2.9+07		Jour	NP/A,567,125	94	Z.Q.Mao+	C1344

6 Carbon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	incl	PY	1USALAS	2.6+08		Jour	NSE,104,339	90	M.M.Meier+	C1440

6 Carbon 12

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	incl	CS	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
n,α	incl	CSP	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
n,d	incl	CS	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
n,d	incl	CSP	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
n,p	incl	CS	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
n,p	incl	CSP	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
n,t	incl	CS	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
n,t	incl	CSP	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
n,x	3He	CS	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
n,x	3He	CSP	2SWDUPP	9.6+07		Jour	NP/A,747,152	05	B.E.Bergenwall+	22888
p,el	^{12}C	DA	1USAOKL	4.5+05	2.2+06	Jour	NIM/B,79,468	93	J.Liu+	C1358
3He,0		RP	1USAWAU	0.0+00		Jour	PR/C,40,1887	89	P.B.Fernandez+	C1384
α,el	^{12}C	CS	1USAANL	4.1+06	1.3+07	Jour	NP/A,180,282	72	T.P.Marvin+	C1360
α,el	^{12}C	DA	1USAWIS	3.8+06	7.6+06	Jour	PR,96,374	54	J.W.Bittner+	C1359
α,el	^{12}C	DA	1USAANL	4.2+06	1.3+07	Jour	NP/A,180,282	72	T.P.Marvin+	C1360
6Li,d	^{16}O	DAP	1USAFSU	2.0+07	3.4+07	Jour	NP/A,366,469	81	C.W.Glover+	C1352
$^{12}C,fus$		CS	1CANLUQ	4.2+06	7.0+06	Jour	NP/A,384,257	82	B.Dasmahapatra+	C1371
$^{17}F,el$	^{12}C	DA	1USAORL	1.7+08		Jour	PR/C,72,034606	05	J.C.Blackmon+	C1367

6 Carbon 13

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
3He,p	^{15}N	DA	1USANRL	1.9+06	4.5+06	Jour	PR,107,538	57	E.G.Illsley+	C1361
6Li,t	^{16}O	DAP	1USAFSU	2.3+07	3.1+07	Jour	NP/A,366,469	81	C.W.Glover+	C1352
$^{10}B,fus$		CS	1CANLUQ	2.4+06	5.8+06	Jour	NP/A,408,192	83	B.Dasmahapatra+	C1373
$^{11}B,fus$		CS	1CANLUQ	2.3+06	6.4+06	Jour	NP/A,408,192	83	B.Dasmahapatra+	C1373
$^{13}C,2n$	^{24}Mg	CS	1CANLUQ	6.9+06	3.2+06	Jour	NP/A,333,273	80	M.L.Chatterjee+	C1372
$^{13}C,fus$		CS	1CANLUQ	6.9+06	3.0+06	Jour	NP/A,333,273	80	M.L.Chatterjee+	C1372

6 Carbon 14

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^{12}C,2n$	^{24}Mg	CS	1CANMCM	5.0+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347

$^{12}\text{C},2n$	^{24}Mg	CSP	1CANMCM	5.0+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},\alpha$	^{22}Ne	CS	1CANMCM	5.0+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},\alpha$	^{22}Ne	CSP	1CANMCM	5.0+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},n$	^{25}Mg	CS	1CANMCM	5.3+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},n$	^{25}Mg	CSP	1CANMCM	5.3+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},n+\alpha$	^{21}Ne	CS	1CANMCM	5.6+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},n+\alpha$	^{21}Ne	CSP	1CANMCM	5.6+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},n+p$	^{24}Na	CS	1CANMCM	6.9+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},n+p$	^{24}Na	CSP	1CANMCM	6.9+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},p$	^{25}Na	CS	1CANMCM	5.6+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347
$^{12}\text{C},p$	^{25}Na	CSP	1CANMCM	5.3+06	8.0+06	Jour	NP/A,565,657	93	B.Dasmahapatra+	C1347

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Nitrogen

14

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{14}N	DA	1USABNW	2.5+06	3.2+06	Jour	SIA,37,374	05	W.Jiang+	C1341
d,p	^{15}N	DAP	1USABRL	3.4+05	1.4+06	Jour	NIM,168,105	80	A.Niiler+	C1357
α,el	^{14}N	DA	1USAWIS	2.0+06	3.8+06	Jour	PR,112,1210	58	D.F.Herring+	C1363
α,el	^{14}N	DA	1USABNW	3.1+06	3.8+06	Jour	SIA,37,374	05	W.Jiang+	C1341
α,el	^{14}N	DA	1USALAS	8.7+06	9.0+06	Jour	NIM/B,79,454	93	L.A.Foster+	C1364
α,p	^{17}O	DAP	1USAWIS	2.7+06	3.8+06	Jour	PR,112,1210	58	D.F.Herring+	C1363
$^{17}\text{F},\text{el}$	^{14}N	DA	1USAORL	1.7+08		Jour	PR/C,72,034606	05	J.C.Blackmon+	C1367

8

Oxygen

16

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,α	^{14}N	DA	1USABNW	7.0+05	1.1+06	Jour	NIM/B,207,453	03	W.Jiang+	C1365
d,p	^{17}O	DAP	1USABNW	7.0+05	1.1+06	Jour	NIM/B,207,453	03	W.Jiang+	C1365
$^3\text{He},\text{el}$	^{16}O	DA	1CANLUQ	1.4+07		Jour	NP/A,394,301	83	M.S.Abdel-Wahab+	C1376
$^3\text{He},n$	^{18}Ne	DAP	1USAOHO	9.9+06	1.0+07	Jour	PR/C,72,025802	05	Y.Parpottas+	C1374
α,el	^{16}O	DA	1USABNW	2.9+06	3.0+06	Jour	NIM/B,207,453	03	W.Jiang+	C1365
$^{13}\text{C},2n$	^{27}Si	CS	1CANMCM	8.4+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},^{12}\text{C}$	^{17}O	CSP	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},\alpha$	^{25}Mg	CS	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},\alpha$	^{25}Mg	CSP	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},\text{fus}$		CS	1CANLUQ	4.6+06	9.1+06	Jour	NP/A,394,301	83	B.Dasmahapatra+	C1375
$^{13}\text{C},\text{fus}$		CS	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},n$	^{28}Si	CS	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},n$	^{28}Si	CSP	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},p$	^{28}Al	CS	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},p$	^{28}Al	CSP	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},t$	^{26}Al	CS	1CANMCM	7.9+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},t$	^{26}Al	CSP	1CANMCM	8.0+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},x$	^{21}Ne	CS	1CANMCM	7.5+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},x$	^{21}Ne	CSP	1CANMCM	7.4+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},x$	^{24}Ne	CS	1CANMCM	8.4+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},x$	^{24}Na	CSP	1CANMCM	8.3+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},x$	^{24}Mg	CS	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},x$	^{24}Mg	CSP	1CANMCM	4.6+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},x$	^{27}Al	CS	1CANMCM	4.8+06	9.7+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377
$^{13}\text{C},x$	^{27}Al	CSP	1CANMCM	4.8+06	9.8+06	Jour	NP/A,526,395	91	B.Dasmahapatra+	C1377

¹³C,x ²⁷Si CSP 1CANMCM 8.3+06 9.7+06 Jour NP/A,526,395 91 B.Dasmahapatra+ C1377

8 Oxygen 17

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
³ He,el	¹⁷ O	DA	1CANLUQ	1.4+07		Jour	NP/A,394,301	83	M.S.Abdel-Wahab+	C1376

8 Oxygen 18

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
³ He,el	¹⁸ O	DA	1CANLUQ	1.4+07		Jour	NP/A,394,301	83	M.S.Abdel-Wahab+	C1376

9 Fluorine 19

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,inel	¹⁹ F	CSP	2UK OXF	2.5+06		Jour	PR,77,286	Jan 50	L.E.Beghian+	21380

12 Magnesium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,inel	^{nat} Mg	CSP	2UK OXF	2.5+06		Jour	PR,77,286	Jan 50	L.E.Beghian+	21380

12 Magnesium 24

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
¹⁴ N,el	²⁴ Mg	DA	1USAFSU	5.3+07		Jour	NP/A,351,509	81	J.F.Mateja+	C1370
¹⁴ N,inel	²⁴ Mg	DAP	1USAFSU	5.3+07		Jour	NP/A,351,509	81	J.F.Mateja+	C1370

13 Aluminium 26

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	²³ Na	CS	2ZZZGEL	4.0+03	7.9+03	Jour	NP/A,719,127	03	C.Wagemans+	22890

13

Aluminium

27

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,inel$	^{27}Al	CSP	2UK HAR	1.8+06	2.0+06	Conf	65ANTWERP,1,103	Jul 65	B.H.Armitage+	21489
p,n	incl	PY	1USALAS	2.6+08		Jour	NSE,104,339	90	M.M.Meier+	C1440
d,n	^{28}Si	DAE	1CANLUQ	4.8+06		Jour	NIM,87,1	70	R.Roy+	C1379
$^{14}\text{N},el$	^{27}Al	DA	1USAFSU	5.2+07		Jour	NP/A,351,509	81	J.F.Mateja+	C1370

14

Silicon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{nat}Si	DA	1USAOKL	5.0+05	2.2+06	Jour	NIM/B,79,468	93	J.Liu+	C1358

14

Silicon

28

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^6\text{Li},el$	^{28}Si	DA	1USAFSU	2.7+07	3.4+07	Jour	NP/A,405,429	83	M.F.Vineyard+	C1351
$^6\text{Li},inel$	^{28}Si	DAP	1USAFSU	2.7+07	3.4+07	Jour	NP/A,405,429	83	M.F.Vineyard+	C1351
$^{14}\text{N},el$	^{28}Si	DA	1USAFSU	5.3+07		Jour	NP/A,351,509	81	J.F.Mateja+	C1370
$^{14}\text{N},inel$	^{28}Si	DAP	1USAFSU	5.3+07		Jour	NP/A,351,509	81	J.F.Mateja+	C1370

16

Sulphur

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,inel$	^{nat}S	CSP	2UK OXF	2.5+06		Jour	PR,77,286	Jan 50	L.E.Beghian+	21380

17

Chlorine

36

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{36}S	CS	2ZZZGEL	6.7+03	9.5+03	Jour	NP/A,719,127	03	C.Wagemans+	22890

18

Argon

40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{40}Ar	DA	1USABRK	2.3+07	4.1+07	Jour	NP/A,393,45	83	N.T.Okumusoglu+	C1329
$p,inel$	^{40}Ar	DAP	1USABRK	2.5+07	4.1+07	Jour	NP/A,393,45	83	N.T.Okumusoglu+	C1329

19 Potassium 39

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
${}^6\text{Li,el}$	${}^{39}\text{K}$	DA	1USAFSU	2.8+07	3.7+07	Jour	NP/A,355,221		81	J.Szymakowski+	C1353

19 Potassium 42

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,p	${}^{42}\text{Ar}$	CS	2AUSIRK	1.5+07		Jour	OAW,12,200		Nov 61	P.Hille	22562

19 Potassium 44

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,α	${}^{41}\text{Cl}$	CS	2AUSIRK	1.5+07		Jour	OAW,12,200		Nov 61	P.Hille	22562
n,p	${}^{44}\text{Ar}$	CS	2AUSIRK	1.5+07		Jour	OAW,12,200		Nov 61	P.Hille	22562

19 Potassium 48

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
$n,2n$	${}^{47}\text{K}$	CS	2AUSIRK	1.5+07		Jour	OAW,12,200		Nov 61	P.Hille	22562

20 Calcium 40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
${}^3\text{He,el}$	${}^{40}\text{Ca}$	DA	1USAFSU	1.3+07	1.7+07	Jour	NP/A,456,457		86	K.M.Abdo+	C1350
${}^7\text{Li}, {}^6\text{He}$	${}^{41}\text{Sc}$	DAP	1USAFSU	3.4+07		Jour	NP/A,457,173		86	D.P.Sanderson+	C1355
${}^7\text{Li}, {}^6\text{Li}$	${}^{41}\text{Ca}$	DAP	1USAFSU	3.4+07		Jour	NP/A,457,173		86	D.P.Sanderson+	C1355
${}^7\text{Li,el}$	${}^{40}\text{Ca}$	DA	1USAFSU	3.4+07		Jour	PR/C,32,887		85	D.P.Sanderson+	C1354
${}^7\text{Li,inel}$	${}^{40}\text{Ca}$	DAP	1USAFSU	3.4+07		Jour	PR/C,32,887		85	D.P.Sanderson+	C1354

20 Calcium 42

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
α,el	${}^{42}\text{Ca}$	DA	1USAMIT	3.0+07		Jour	NP,81,161		66	C.R.Gruhn+	C1383
α,inel	${}^{42}\text{Ca}$	DAP	1USAMIT	3.0+07		Jour	NP,81,161		66	C.R.Gruhn+	C1383

21 Scandium 45

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

$n,2n$	^{44}Sc	CS	2TUKCNA	1.4+07	1.5+07	Jour	PR/C,56,918		97	M.Bostan+	22732
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22 Titanium 46

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

p,α	^{43}Sc	DAP	1CANMNA	4.0+07		Jour	NP/A,382,185		82	O.A.Abou-Zeid+	C1343
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22 Titanium 48

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

p,α	^{45}Sc	DAP	1CANMNA	4.0+07		Jour	NP/A,382,185		82	O.A.Abou-Zeid+	C1343
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22 Titanium 50

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

p,α	^{47}Sc	DAP	1CANMNA	4.0+07		Jour	NP/A,382,185		82	O.A.Abou-Zeid+	C1343
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α,el	^{50}Ti	DA	1USAMIT	3.0+07		Jour	NP,81,161		66	C.R.Gruhn+	C1383
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α,inel	^{50}Ti	DAP	1USAMIT	3.0+07		Jour	NP,81,161		66	C.R.Gruhn+	C1383
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26 Iron 56

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

n,x	^{57}Fe	CSP	2UK OXF	2.5+06		Jour	PR,82,969		Jun 51	M.A.Grace+	21381
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p,n	incl	PY	1USALAS	2.6+08		Jour	NSE,104,339		90	M.M.Meier+	C1440
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26 Iron 56

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

d,p	^{57}Fe	DAP	1USAMIT	7.5+06		Jour	BAP,7,315		62	F.Alba+	C1381
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26 Iron 58

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

$^{16}\text{O},x$	^{14}C	DAP	1USALAS	5.0+07		Jour	NP/A,336,290		80	D.L.Hanson+	C1378
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27

Cobalt

59

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
d,p	^{60}Co	DAP	1USAMIT	6.0+06		Jour	PR,119,735		60	H.A.Enge+	C1382

32

Germanium

70

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
α,el	^{70}Ge	DA	1USAFSU	1.5+07		Jour	PR/C,4,2240		71	B.D.Watson+	C1386

34

Selenium

74

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{75}Se	CS	2GERKFK	Maxwl		Jour	NP/A,758,513		05	I.Dillmann+	22892

36

Krypton

80

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{81}Kr	CS	2ZZZGEL	Maxwl		Conf	2004SANTA,,1327		04	P.Mutti+	22908

36

Krypton

82

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{83}Kr	CS	2ZZZGEL	Maxwl		Conf	2004SANTA,,1327		04	P.Mutti+	22908

36

Krypton

83

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{84}Kr	CS	2ZZZGEL	Maxwl		Conf	2004SANTA,,1327		04	P.Mutti+	22908

36

Krypton

84

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{85}Kr	CS	2ZZZGEL	Maxwl		Conf	2004SANTA,,1327		04	P.Mutti+	22908

36

Krypton

86

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

n,γ	^{87}Kr	CS	2ZZZGEL	Maxwl		Conf	2004SANTA,,1327		04	P.Mutti+	22908
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38

Strontium

84

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

n,γ	^{85}Sr	CS	2GERKFK	Maxwl		Jour	NP/A,758,513		05	I.Dillmann+	22892
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40

Zirconium

90

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

n,p	^{90}Y	DAE	2JPNOSA	2.9+08		Jour	PL/B,615,193		05	K.Yako+	22887
α,el	^{90}Zr	DA	1USAFSU	1.5+07		Jour	PR/C,4,2240		71	B.D.Watson+	C1386

41

Niobium

93

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

$n,0$		RP	2ZZZGEL	0.0+00		Conf	76LOWELL,,1248		Jul 76	J.Winter+	22602
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45

Rhodium

103

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

$n,0$		RP	2ZZZGEL	0.0+00		Conf	2004SANTA,,953		Oct 04	A.Brusegan+	22906
n,γ		RP	2ZZZGEL	0.0+00		Conf	2004SANTA,,953		Oct 04	A.Brusegan+	22906
n,γ	^{104}Rh	CS	2ZZZGEL	Maxwl	2.5-02	Conf	2004SANTA,,953		Oct 04	A.Brusegan+	22906

46

Palladium

108

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

$n,0$		RP	2ZZZGEL	0.0+00		Conf	78HARWELL,,701		Sep 78	P.Staveloz+	22607
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47

Silver

107

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
α,el	^{107}Ag	DA	1USAFSU	1.0+07	1.7+07	Jour	PR/C,4,2240			71	B.D.Watson+	C1386

50

Tin

112

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
$n,inel$	^{112}Sn	CSP	1USAKTY	3.0+06	3.9+06	Jour	PR/C,72,034313			05	A.Kumar+	C1368
p,t	^{110}Sn	DA	1USAMSU	4.2+07		Jour	PR/C,23,589			81	G.M.Crawley+	C1349
p,t	^{110}Sn	DAP	1USAMSU	4.2+07		Jour	PR/C,23,589			81	G.M.Crawley+	C1349

50

Tin

116

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
p,t	^{114}Sn	DA	1USAMSU	4.2+07		Jour	PR/C,23,589			81	G.M.Crawley+	C1349

50

Tin

118

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
p,t	^{116}Sn	DA	1USAMSU	4.2+07		Jour	PR/C,23,589			81	G.M.Crawley+	C1349

50

Tin

120

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
p,t	^{118}Sn	DA	1USAMSU	4.2+07		Jour	PR/C,23,589			81	G.M.Crawley+	C1349

50

Tin

122

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
p,t	^{120}Sn	DA	1USAMSU	4.2+07		Jour	PR/C,23,589			81	G.M.Crawley+	C1349

50

Tin

124

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation			Date	Author	Data #
				Min	Max		Ref	Vol	Page			
p,t	^{122}Sn	DA	1USAMSU	4.2+07		Jour	PR/C,23,589			81	G.M.Crawley+	C1349

57

Lanthanum

139

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

58

Cerium

140

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
α,el	^{140}Ce	DA	1USAFSU	1.5+07		Jour	PR/C,4,2240		71	B.D.Watson+	C1386

66

Dysprosium

164

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{165}Dy	CS	2TUKANR	Maxwl		Jour	NIM/A,550,626		05	M.Karadag+	22891
n,γ	^{165}Dy	RI	2TUKANR	5.5-01		Jour	NIM/A,550,626		05	M.Karadag+	22891

71

Lutetium

175

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{176}Lu	CS	2GERKFK	Maxwl		Conf	2004SANTA,,1315		04	K.Wisshak+	22907

71

Lutetium

176

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{177}Lu	CS	2GERKFK	Maxwl		Conf	2004SANTA,,1315		04	K.Wisshak+	22907

72

Hafnium

176

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{177}Hf	CS	2GERKFK	Maxwl		Conf	2004SANTA,,1315		04	K.Wisshak+	22907

72

Hafnium

177

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{178}Hf	CS	2GERKFK	Maxwl		Conf	2004SANTA,,1315		04	K.Wisshak+	22907

d,p ¹⁷⁸Hf DAP 1USAFSU 1.2+07 Thes MINOR 68 M.Mclean-Minor C1380

72 Hafnium 178

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁷⁹ Hf	CS	2GERKFK	Maxwl		Conf	2004SANTA,,1315	04	K.Wisshak+	22907
<i>d,el</i>	¹⁷⁸ Hf	DA	1USAFSU	1.2+07		Thes	MINOR	68	M.Mclean-Minor	C1380
<i>d,sct</i>	¹⁷⁸ Hf	DAP	1USAFSU	1.2+07		Thes	MINOR	68	M.Mclean-Minor	C1380

72 Hafnium 179

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁸⁰ Hf	CS	2GERKFK	Maxwl		Conf	2004SANTA,,1315	04	K.Wisshak+	22907
<i>d,t</i>	¹⁷⁸ Hf	DAP	1USAFSU	1.2+07		Thes	MINOR	68	M.Mclean-Minor	C1380

72 Hafnium 180

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁸¹ Hf	CS	2GERKFK	Maxwl		Conf	2004SANTA,,1315	04	K.Wisshak+	22907

83 Bismuth 209

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		CS	2SWDUPP	3.5+07	1.7+08	Conf	2004SANTA,,937	04	G.A.Tutin+	22905

92 Uranium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,el</i>	^{nat} U	CS	2UK HAR	2.5-02		Jour	JNE,1,92	Aug 54	P.A.Egelstaff	21179

92 Uranium 233

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

92 Uranium 234

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

92 Uranium 235

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	?	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	?	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

92 Uranium 236

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

92 Uranium 238

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,0</i>		RP	1USALAS	0.0+00		Jour	PR/C,58,1225	98	B.E.Crawford+	C1362
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>p,n</i>	incl	PY	1USALAS	2.6+08		Jour	NSE,104,339	90	M.M.Meier+	C1440

93 Neptunium 237

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	?	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	?	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

94 Plutonium 238

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

n,f Many CHG 2UK DOU Fast Jour NSE,144,115 03 N.Shinohara+ 22881

94 Plutonium 239

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

94 Plutonium 240

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,0</i>		RP	2UK HAR	0.0+00		Rept	AERE-PR/NP-4,19	May 63	M.C.Moxon+	22556
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

94 Plutonium 241

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

94 Plutonium 242

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

94 Plutonium 244

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

95 Americium 241

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

95 Americium 243

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		CS	2JPNKTO	5.6-02	7.9+03	Jour	NST,36,(1),20	Jan 99	K.Kobayashi+	22422
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

96 Curium 243

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

96 Curium 244

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

96 Curium 246

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881

96 Curium 248

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	Many	FY	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881
<i>n,f</i>	Many	CHG	2UK DOU	Fast		Jour	NSE,144,115	03	N.Shinohara+	22881