

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)

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
,		?	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543

1 Hydrogen

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

1 Hydrogen 2

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	^1H	DA	2SWDLND	1.1+07	7.0+07	Jour	CHP,40,277	02	I.Akkurt	M0685
$^3\text{He},p$	^4He	DA	2UK BIR	2.7+07	3.3+07	Jour	NP/A,325,45	79	N.T.Okumusoglu+	D0338
$^3\text{He},p$	^4He	POD	2UK BIR	2.7+07	3.3+07	Jour	NP/A,325,45	79	N.T.Okumusoglu+	D0338

1 Hydrogen 3

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,n	incl	D3A	4UKRIJD	1.4+07		Jour	IZV,53,175	89	V.I.Grantsev+	F0582

2 Helium 4

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	2JPNAIS	2.2+07	3.0+07	Jour	PR/C,72,044004	05	T.Shima+	M0680
γ,n	^3He	CS	2JPNAIS	2.2+07	3.0+07	Jour	PR/C,72,044004	05	T.Shima+	M0680
γ,n	^3He	CS	2SWDLND	2.4+07	4.1+07	Jour	PL/B,626,65	05	B.Nilson+	M0669
γ,n	^3He	DA	2SWDLND	2.9+07		Jour	PL/B,626,65	05	B.Nilson+	M0669
$\gamma,n+p$	^2H	CS	2JPNAIS	3.0+07		Jour	PR/C,72,044004	05	T.Shima+	M0680
γ,p	^3H	CS	2JPNAIS	2.2+07	3.0+07	Jour	PR/C,72,044004	05	T.Shima+	M0680
γ,p	^3H	DA	2JPNAIS	3.0+07		Jour	PR/C,72,044004	05	T.Shima+	M0680
p,el	^4He	DT	2FR SAT	3.5+08	1.2+09	Jour	PL/B,68,(3),221	Jun 77	E.Aslanides+	D0376

3 Lithium

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

n,γ	CSP	3HUNII	5.0-04	Jour	JRN,265,169	05	Zs.Revay+	31555
n,γ	CSP	3HUNII	5.0-04	Jour	RCA,91,361	03	Zs.Revay+	31558

3

Lithium

6

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,α	^4He	DA	2GERTUB	2.2+04	8.0+04	Jour	PR/C,70,025803	04	G.Ruprecht+	D0274

3

Lithium

7

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,inel	^7Li	DAP	1USATNC	1.0+06	1.5+07	Prog	TID-20652,	70	P.S.Buchanan	14084

4

Beryllium

7

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,n	^8B	CS	3CPRAEP	5.8+06		Jour	PRL,77,611	96	W.Liu+	F0745
d,n	^8B	DA	3CPRAEP	5.8+06		Jour	PRL,77,611	96	W.Liu+	F0745

4

Beryllium

9

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{10}Be	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
p,α	^6Li	CSP	2GERJUL	1.8+07	4.5+07	Jour	NP/A,456,253	86	H.J.Hauser+	F0729
p,α	^6Li	CSP	4RUSEPA	2.4+06	3.1+06	Conf	2002MOSCOW,,177	02	L.N.Generalov+	F0576
p,α	^6Li	DAP	2GERJUL	1.9+07	4.5+07	Jour	NP/A,456,253	86	H.J.Hauser+	F0729

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Boron

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

5

Boron

10

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,α	^7Be	CSP	2GERJUL	1.8+07	4.5+07	Jour	NP/A,456,253	86	H.J.Hauser+	F0729
p,α	^7Be	DAP	2GERJUL	1.8+07	4.5+07	Jour	NP/A,456,253	86	H.J.Hauser+	F0729
d,p	^{11}B	CSP	2GERTUB	1.0+05	2.8+05	Jour	PR/C,70,025803	04	G.Ruprecht+	D0274

<i>d,p</i>	¹¹ B	DAP	2GERTUB	1.4+05	2.5+05	Jour	PR/C,70,025803	04	G.Ruprecht+	D0274
<i>α,d</i>	¹² C	CSP	4RUSMOS	2.1+07	2.5+07	Jour	YF,6,248	67	A.U.Al-Dzhauahiri+	F0752
<i>α,d</i>	¹² C	DAP	4RUSMOS	1.3+07	2.5+07	Jour	YF,6,248	67	A.U.Al-Dzhauahiri+	F0752

5 Boron 11

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,γ</i>	¹² C	DAP	4RUSEPA	1.4+06	2.8+06	Jour	IZV,69,85	05	L.N.Generalov+	F0716
³ He, ⁶ Li	⁸ Be	DA	2GERJUL	7.2+07		Jour	NP/A,448,1	86	L.Jarzyk+	F0723
³ He, ⁷ Li	⁷ Be	DA	2GERJUL	7.2+07		Jour	NP/A,448,1	86	L.Jarzyk+	F0723
³ He, ⁷ Li	⁷ Be	DAP	2GERJUL	7.2+07		Jour	NP/A,448,1	86	L.Jarzyk+	F0723
<i>α,d</i>	¹³ C	CSP	4RUSMOS	2.3+07	2.5+07	Jour	YF,6,248	67	A.U.Al-Dzhauahiri+	F0752
<i>α,d</i>	¹³ C	DAP	4RUSMOS	1.7+07	2.5+07	Jour	YF,6,248	67	A.U.Al-Dzhauahiri+	F0752

6 Carbon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

6 Carbon 12

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,el</i>	¹² C	POD	1USATNL	2.2+06	8.4+06	Jour	PR/C,72,024605	05	C.D.Roper+	14058
<i>p,non</i>		CS	3SAFITH	8.1+07	1.8+08	Jour	PR/C,71,064606	05	A.Auce+	D0356
<i>d,el</i>	¹² C	DA	2GRCATH	9.0+05	2.0+06	Conf	2005SEVILL,	05	M.Kokkoris+	D0367
<i>d,p</i>	¹³ C	DAP	2GRCATH	9.0+05	2.0+06	Conf	2005SEVILL,	05	M.Kokkoris+	D0368

6 Carbon 13

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,n</i>	¹⁴ N	DAP	2GERBER	6.0+06		Jour	PL,23,363	66	H.Fuchs+	F0737
<i>d,p</i>	¹⁴ C	DAP	2BLGNAM	5.0+05	1.6+06	Conf	2005SEVILL,	05	J.Colaux+	D0366

7 Nitrogen

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

7

Nitrogen

14

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,α</i>	¹² C	CSP	3BZLUSP	1.1+06	3.0+06	Jour	NP/A,136,385	69	V.Gomesporto+	F0718
<i>d,α</i>	¹² C	DAP	3BZLUSP	1.0+06	3.1+06	Jour	NP/A,136,385	69	V.Gomesporto+	F0718
<i>d,el</i>	¹⁴ N	DA	3BZLUSP	1.2+06	3.1+06	Jour	NP/A,136,385	69	V.Gomesporto+	F0718
<i>d,p</i>	¹⁵ N	CSP	3BZLUSP	1.1+06	3.1+06	Jour	NP/A,136,385	69	V.Gomesporto+	F0718
<i>d,p</i>	¹⁵ N	DAP	3BZLUSP	1.1+06	3.1+06	Jour	NP/A,136,385	69	V.Gomesporto+	F0718

8

Oxygen

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

8

Oxygen

16

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,n</i>	¹⁵ O	DAP	2SWDLND	5.0+07	7.0+07	Jour	CHP,40,277	02	I.Akkurt+	M0684

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Fluorine

19

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	²⁰ F	CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
<i>n,γ</i>	²⁰ F	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
<i>p,d</i>	¹⁸ F	DAP	2BLGLIE	1.9+07		Jour	NP/A,337,107	80	J.M.Delbrouck-Habaru+	F0732
<i>d,α</i>	¹⁷ O	CSP	3HUNDEB	3.0+05	6.4+05	Jour	NP/A,130,449	69	L.Mesko+	F0728
<i>d,α</i>	¹⁷ O	DAP	3HUNDEB	3.0+05	6.4+05	Jour	NP/A,130,449	69	L.Mesko+	F0728

10

Neon

20

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	²⁰ Ne	DA	2FR LYO	1.5+06	3.0+06	Jour	JPR,33,155	72	M.Lambert+	D0329
<i>p,inel</i>	²⁰ Ne	CSP	2FR LYO	2.6+06	2.7+06	Jour	JPR,33,155	72	M.Lambert+	D0329
<i>p,inel</i>	²⁰ Ne	DAP	2FR LYO	2.6+06	2.8+06	Jour	JPR,33,155	72	M.Lambert+	D0329

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Sodium

23

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

n,γ	^{24}Na	CS	IUSAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
n,γ	^{24}Na	CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
n,γ	^{24}Na	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

12 Magnesium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

12 Magnesium 24

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{24}Na	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduetiep+	31543
p,inel	^{24}Mg	DAE	2SWDUPP	1.8+08		Jour	NP/A,90,673	67	S.Dahlgren+	D0193
p,inel	^{24}Mg	DAP	2SWDUPP	1.8+08		Jour	NP/A,90,673	67	S.Dahlgren+	D0193
d,el	^{24}Mg	DA	2GERUEN	1.0+07		Jour	PR/C,28,1925	83	F.Vogler+	F0725
d,inel	^{24}Mg	DAP	2GERUEN	1.0+07		Jour	PR/C,28,1925	83	F.Vogler+	F0725
α,p	^{27}Al	DAP	3AULCBR	1.1+07		Jour	NP/A,134,505	69	K.W.Carter+	F0604

12 Magnesium 25

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,inel	^{25}Mg	?	2SWDUPP	1.8+08		Jour	NP/A,90,673	67	S.Dahlgren+	D0193

12 Magnesium 26

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,el	^{26}Mg	DA	2GERUEN	1.0+07		Jour	PR/C,28,1925	83	F.Vogler+	F0725
d,inel	^{26}Mg	DAP	2GERUEN	1.0+07		Jour	PR/C,28,1925	83	F.Vogler+	F0725

13 Aluminium 27

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{28}Al	CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
n,γ	^{28}Al	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
p,α	^{24}Mg	DAP	2ITYPAD	1.8+07	2.6+07	Jour	PR/C,28,1892	83	R.Bonetti+	F0726
p,el	^{27}Al	DA	2SWDUPP	1.8+08		Jour	NP/A,90,673	67	S.Dahlgren+	D0193
p,inel	^{27}Al	DAE	2SWDUPP	1.8+08		Jour	NP/A,90,673	67	S.Dahlgren+	D0193
p,inel	^{27}Al	DAP	2SWDUPP	1.8+08		Jour	NP/A,90,673	67	S.Dahlgren+	D0193
$^3\text{He},\alpha$	^{26}Al	DAP	2ITYPAD	8.2+06	1.3+07	Jour	PR/C,28,1892	83	R.Bonetti+	F0726
$^9\text{Be},\text{fus}$		CS	3ARGCNE	1.2+07	2.5+07	Jour	PR/C,71,027602	05	G.V.Marti+	D0281

⁹Be,non CS 3BZLUSP 1.2+07 2.2+07 Jour PR/C,71,027602 05 G.V.Marti+ D0281

14 Silicon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

14 Silicon 28

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	²⁸ Si	DA	2GRCATH	1.3+06	2.4+06	Jour	NIM/B,140,294	98	X.A.Aslanoglou+	D0369
<i>d,el</i>	²⁸ Si	DA	2GERUEN	1.0+07		Jour	PR/C,28,1925	83	F.Vogler+	F0725
<i>d,inel</i>	²⁸ Si	DAP	2GERUEN	1.0+07		Jour	PR/C,28,1925	83	F.Vogler+	F0725
<i>α,el</i>	²⁸ Si	DA	3CPRFUD	2.0+06	5.0+06	Jour	CNP,15,333	93	C.Huansheng+	F0589

14 Silicon 30

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	³¹ Si	CS	1USABEL	2.5-02		Jour	JOES,108,171	61	M.Tanenbaum+	14082
<i>d,el</i>	³⁰ Si	DA	2GERUEN	1.0+07		Jour	PR/C,28,1925	83	F.Vogler+	F0725
<i>d,inel</i>	³⁰ Si	DAP	2GERUEN	1.0+07		Jour	PR/C,28,1925	83	F.Vogler+	F0725

15 Phosphorus 31

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	³² P	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

16 Sulphur

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

16 Sulphur 32

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,inel</i>	³² S	DAP	3AULCBR	1.7+07	1.8+07	Jour	AUJ,26,747	73	P.R.Gardner+	F0663

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Sulphur

34

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	3AULAML	1.2+07	2.6+07	Jour	NP/A,460,455	86	Y.I.Assafiri+	M0510
γ ,n+p	^{32}P	CS	3AULAML	2.2+07	2.6+07	Jour	NP/A,460,455	86	Y.I.Assafiri+	M0510
γ ,n+p	^{32}P	INT	3AULAML	2.0+07		Jour	NP/A,460,455	86	Y.I.Assafiri+	M0510
γ ,p	^{33}P	CS	3AULAML	1.2+07	2.5+07	Jour	NP/A,460,455	86	Y.I.Assafiri+	M0510
γ ,p	^{33}P	INT	3AULAML	1.1+07		Jour	NP/A,460,455	86	Y.I.Assafiri+	M0510

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Chlorine

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n , γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

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Chlorine

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n , γ	^{36}Cl	CS	3HUNII	5.0-04		Jour	NIM/B,213,32	04	G.L.Molnar+	31556
n , γ	^{36}Cl	SPC	3HUNII	5.0-04		Jour	NIM/B,213,32	04	G.L.Molnar+	31556

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Argon

36

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n , α	^{33}S	CSP	3CPRBJG	5.0+06	6.0+06	Jour	IZV,67,(11),1615	03	Yu.M.Gledenov+	31559

19

Potassium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n , γ		CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
n , γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

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Potassium

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n , α	^{36}Cl	CS	3CPRBJG	4.5+06	6.5+06	Jour	IZV,67,(11),1615	03	Yu.M.Gledenov+	31559
n , α	^{36}Cl	CSP	3CPRBJG	4.5+06	6.5+06	Jour	IZV,67,(11),1615	03	Yu.M.Gledenov+	31559

19

Potassium

41

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{42}K	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

20

Calcium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

20

Calcium

40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{37}Ar	CS	3CPRBJG	4.9+06	6.0+06	Jour	IZV,67,(11),1615	03	Yu.M.Gledenov+	31559
n,α	^{37}Ar	CSP	3CPRBJG	4.9+06	6.0+06	Jour	IZV,67,(11),1615	03	Yu.M.Gledenov+	31559
p,non		CS	3SAFITH	8.1+07	1.8+08	Jour	PR/C,71,064606	05	A.Auce+	D0356
α,el	^{40}Ca	DA	2DENNBI	2.5+07		Jour	NP/A,320,225	79	T.F.Thorsteinsen+	F0633
α,el	^{40}Ca	DA	2NEDGRN	3.6+07	6.1+07	Jour	ZP/A,286,99	78	H.Lohner+	F0639
α,el	^{40}Ca	DA	2BLGLVN	4.0+07	6.2+07	Jour	PR/C,18,1237	78	Th.Delbar+	F0657
α,p	^{43}Sc	DAP	2DENNBI	2.5+07		Jour	NP/A,320,225	79	T.F.Thorsteinsen+	F0633

20

Calcium

41

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,p	^{44}Sc	DAP	2DENNBI	2.5+07		Jour	NP/A,320,225	79	T.F.Thorsteinsen+	F0633

20

Calcium

42

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,α	^{38}Ar	DAP	2JPNTOH	1.6+07	2.5+07	Jour	AUJ,33,685	80	R.E.Pywell+	M0543
γ,p	^{41}K	DAP	2JPNTOH	1.6+07	2.8+07	Jour	AUJ,33,685	80	R.E.Pywell+	M0543

20

Calcium

44

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	incl	CS	3AULAML	1.1+07	2.6+07	Jour	AUJ,34,505	81	P.D.Harty+	M0637
α,el	^{44}Ca	DA	2NEDGRN	3.6+07	6.1+07	Jour	ZP/A,286,99	78	H.Lohner+	F0639
α,el	^{44}Ca	DA	2BLGLVN	4.0+07	5.8+07	Jour	PR/C,18,1237	78	Th.Delbar+	F0657
α,inel	^{44}Ca	DAP	2BLGLVN	4.0+07	6.2+07	Jour	PR/C,18,1237	78	Th.Delbar+	F0657

21 Scandium 45

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ, n	^{44}Sc	CS	4UKRIEP	0.0+00	2.1+07	Jour	YF,63,389	00	V.A.Zheltonozhsky+	M0631
n, γ	^{46}Sc	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

22 Titanium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n, γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

22 Titanium 46

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n, 2n$	^{45}Ti	CS	3PAKNIL	Fiss		Jour	RCA,93,547	05	J.H.Zaidi+	31554
$n, 2n$	^{45}Ti	CS	3PAKNIL	Fiss		Jour	RCA,90,123	02	I.Fatima+	31561
n, p	^{46}Sc	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543
n, p	^{46}Sc	CS	3PAKNIL	Fiss		Jour	RCA,90,123	02	I.Fatima+	31561

22 Titanium 47

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n, p	^{47}Sc	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543
n, p	^{47}Sc	CS	3PAKNIL	Fiss		Jour	RCA,90,123	02	I.Fatima+	31561

22 Titanium 48

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n, p	^{48}Sc	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543
n, p	^{48}Sc	CS	3PAKNIL	Fiss		Jour	RCA,90,123	02	I.Fatima+	31561

22 Titanium 49

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n, p	^{49}Sc	CS	3PAKNIL	Fiss		Jour	RCA,90,123	02	I.Fatima+	31561

22 Titanium 50

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{47}Ca	CS	3PAKNIL	Fiss		Jour	RCA,90,123	02	I.Fatima+	31561
n,p	^{50}Sc	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543

24 Chromium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

24 Chromium 52

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{52}V	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543

24 Chromium 53

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,n+p$	^{52}V	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543
n,p	^{53}V	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543

24 Chromium 54

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{51}Ti	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543
$n,n+p$	^{53}V	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543
n,p	^{54}V	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543

25 Manganese 55

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{56}Mn	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
n,γ	^{56}Mn	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

26 Iron

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

26 Iron 54

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	3AULAML	1.5+07	2.3+07	Jour	AUJ,31,471	78	J.W.Norbury+	M0507
γ,n	^{53}Fe	CS	3AULAML	1.2+07	2.3+07	Jour	AUJ,31,471	78	J.W.Norbury+	M0507
γ,p	^{53}Mn	CS	3AULAML	1.5+07	2.3+07	Jour	AUJ,31,471	78	J.W.Norbury+	M0507
$n,2n$	^{53}Fe	CS	3ARGCAB	Fiss		Jour	JRN,254,557	02	S.R.Guevara+	31557

27 Cobalt 59

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{60}Co	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
n,inel	^{59}Co	DAP	1USATNC	3.0+06		Prog	TID-20652,	70	P.S.Buchanan	14084
$^3\text{He},n$	^{61}Cu	CS	3HUNDEB	7.2+06	2.5+07	Jour	NIM/B,222,355	04	A.Fenyvesi+	D4158
$^3\text{He},n$	^{61}Cu	TT	3HUNDEB	0.0+00		Jour	NIM/B,222,355	04	A.Fenyvesi+	D4158
$^3\text{He},x$	^{54}Mn	CS	3HUNDEB	1.8+07	2.5+07	Jour	NIM/B,222,355	04	A.Fenyvesi+	D4158
$^3\text{He},x$	^{57}Co	CS	3HUNDEB	7.2+06	2.5+07	Jour	NIM/B,222,355	04	A.Fenyvesi+	D4158
$^3\text{He},x$	^{60}Co	CS	3HUNDEB	7.2+06	2.5+07	Jour	NIM/B,222,355	04	A.Fenyvesi+	D4158
$^{16}\text{O},x$	^8Be	CSP	3SAFITH	4.0+08		Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^8Be	DAE	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{10}B	CS	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{11}B	CS	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{11}B	DAE	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{12}C	CS	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{12}C	DAE	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{14}N	CS	3SAFITH	2.5+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{14}N	DAE	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{15}N	CS	3SAFITH	2.5+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306

27 Cobalt 60

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,inel	^{60}Co	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

28 Nickel

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

28

Nickel

58

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	⁵⁸ Co	CS	1USAARK	2.5-02		Jour	BAP,1,40	56	B.L.Robinson+	14073
<i>p,el</i>	⁵⁸ Ni	DA	4RUSEPA	3.4+06	5.5+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704
<i>p,el</i>	⁵⁸ Ni	POD	2UK NIN	3.0+07		Jour	PR/C,2,1063	70	G.W.Greenlees+	D0334
<i>p,incl</i>	⁵⁸ Ni	DAP	4RUSEPA	3.8+06	5.5+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704
<i>p,non</i>		CS	3SAFITH	8.1+07		Jour	PR/C,71,064606	05	A.Auce+	D0356
¹⁶ O, α	incl	CS	2DENCOP	7.0+07		Jour	CZJ,29,1208	79	I.Espe+	D0327
¹⁶ O, α	incl	DAE	2DENCOP	7.0+07		Jour	CZJ,29,1208	79	I.Espe+	D0327
¹⁶ O, α	incl	DE	2DENCOP	7.0+07		Jour	CZJ,29,1208	79	I.Espe+	D0327
¹⁶ O, α	⁷⁰ Se	DAE	2DENCOP	7.0+07		Jour	CZJ,29,1208	79	I.Espe+	D0327
¹⁶ O, <i>p</i>	incl	CS	2DENCOP	7.0+07		Jour	CZJ,29,1208	79	I.Espe+	D0327
¹⁶ O, <i>p</i>	incl	DAE	2DENCOP	7.0+07		Jour	CZJ,29,1208	79	I.Espe+	D0327
¹⁶ O, <i>p</i>	incl	DE	2DENCOP	7.0+07		Jour	CZJ,29,1208	79	I.Espe+	D0327
¹⁶ O, <i>p</i>	⁷³ Br	DAE	2DENCOP	7.0+07		Jour	CZJ,29,1208	79	I.Espe+	D0327

28

Nickel

60

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	⁶⁰ Co	CS	1USAARK	2.5-02		Jour	BAP,1,40	56	B.L.Robinson+	14073
<i>p,el</i>	⁶⁰ Ni	DA	4RUSEPA	3.8+06	5.9+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704
<i>p,incl</i>	⁶⁰ Ni	DAP	4RUSEPA	3.8+06	5.9+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704
<i>p,n</i>	⁶⁰ Cu	CS	4RUSEPA	7.0+06	8.5+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704

28

Nickel

62

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁶² Ni	DA	4RUSEPA	3.9+06	5.0+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704
<i>p,incl</i>	⁶² Ni	DAP	4RUSEPA	4.5+06	6.0+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704
<i>p,n</i>	⁶² Cu	CS	4RUSEPA	4.7+06	6.1+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704

28

Nickel

63

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,0</i>		RP	4RUSEPA	2.5+06	5.3+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704

28

Nickel

64

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

<i>p,0</i>		RP	4RUSMIF	0.0+00		Jour	YF,13,719	71	B.Yu.Guzhovskij+	F0705
<i>p,el</i>	⁶⁴ Ni	DA	4RUSEPA	3.8+06	6.0+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704
<i>p,n</i>	⁶⁴ Cu	CS	4RUSEPA	2.5+06	8.7+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704

28

Nickel

65

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,tot</i>		RP	4RUSEPA	3.1+06	7.1+06	Jour	IZV,33,129	69	B.Ja.Guzhovskij+	F0704

29

Copper

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,2n</i>		CS	4RUSMOS	2.0+07	3.0+07	Jour	VMU,6,606	70	B.S.Ishkhanov+	M0537
<i>γ,2n</i>		INT	4RUSMOS	2.0+07		Jour	VMU,6,606	70	B.S.Ishkhanov+	M0537
<i>γ,n</i>		CS	4RUSMOS	1.0+07	2.4+07	Jour	VMU,6,606	70	B.S.Ishkhanov+	M0537
<i>γ,n</i>		INT	4RUSMOS	1.0+07		Jour	VMU,6,606	70	B.S.Ishkhanov+	M0537
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
<i>n,x</i>	⁵⁴ Mn	CS	1USAHRV	7.1+07	1.1+08	Jour	NIM/B,240,617	05	J.M.Sisterson+	14056
<i>n,x</i>	⁵⁹ Fe	CS	1USAHRV	7.1+07	1.1+08	Jour	NIM/B,240,617	05	J.M.Sisterson+	14056
<i>n,x</i>	⁵⁶ Co	CS	1USAHRV	7.1+07	1.1+08	Jour	NIM/B,240,617	05	J.M.Sisterson+	14056
<i>n,x</i>	⁵⁷ Co	CS	1USAHRV	7.1+07	1.1+08	Jour	NIM/B,240,617	05	J.M.Sisterson+	14056
<i>n,x</i>	⁵⁸ Co	CS	1USAHRV	7.1+07	1.1+08	Jour	NIM/B,240,617	05	J.M.Sisterson+	14056
<i>n,x</i>	⁶⁰ Co	CS	1USAHRV	7.1+07	1.1+08	Jour	NIM/B,240,617	05	J.M.Sisterson+	14056

29

Copper

63

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,n</i>	⁶² Cu	CS	4RUSMOS	1.0+07	2.5+07	Jour	YF,58,387	95	V.V.Varlamov+	M0385
<i>γ,n+p</i>	⁶¹ Ni	CS	4RUSMOS	1.6+07	2.5+07	Jour	YF,58,387	95	V.V.Varlamov+	M0385
<i>γ,p</i>	⁶² Ni	CS	4RUSMOS	1.4+07	2.5+07	Jour	YF,58,387	95	V.V.Varlamov+	M0385
<i>n,γ</i>	⁶⁴ Cu	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,γ</i>	⁶⁴ Cu	?	1USAMTR	2.5+04		Prog	IN-1317,39	70	R.P.Schuman+	14080

29

Copper

65

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	⁶⁶ Cu	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,γ</i>	⁶⁶ Cu	?	1USAMTR	2.5+04		Prog	IN-1317,39	70	R.P.Schuman+	14080

30 Zinc

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

30 Zinc 64

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	⁶³ Zn	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543
<i>n,2n</i>	⁶³ Zn	CS	3ARGCAB	Fiss		Jour	RCA,93,543	05	I.M.Cohen+	31553
<i>n,α</i>	⁶¹ Ni	CS	3CPRBJG	5.0+06	6.5+06	Jour	IZV,67,(11),1615	03	Yu.M.Gledenov+	31559
<i>n,α</i>	⁶¹ Ni	DA	3CPRBJG	5.0+06		Jour	IZV,67,(11),1615	03	Yu.M.Gledenov+	31559
<i>n,γ</i>	⁶⁵ Zn	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,p</i>	⁶⁴ Cu	CS	3ARGCAB	Fiss		Jour	RCA,93,543	05	I.M.Cohen+	31553
⁶ Li,fus		CS	3ARGCNE	1.6+07	2.4+07	Jour	PR/C,71,027602	05	P.R.S.Gomes+	D0348
⁶ Li,non		CS	3BZLUSP	1.7+07	2.2+07	Jour	PR/C,71,034608	05	P.R.S.Gomes+	D0348
⁷ Li,non		CS	3BZLUSP	2.0+07	2.2+07	Jour	PR/C,71,034608	05	P.R.S.Gomes+	D0348
⁹ Be,el	⁶⁴ Zn	DA	3BZLUSP	1.7+07	2.8+07	Jour	PR/C,61,064608	00	S.B.Moraes+	D0370
⁹ Be,fus		CS	3ARGCNE	2.0+07	2.4+07	Jour	PR/C,71,027602	05	P.R.S.Gomes+	D0348
⁹ Be,fus		CS	3BZLUSP	2.1+07	2.9+07	Jour	PR/C,61,064608	00	S.B.Moraes+	D0370
¹⁶ O,non		CS	3BZLUSP	3.2+07	5.5+07	Jour	PR/C,71,034608	05	P.R.S.Gomes+	D0348

30 Zinc 66

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	⁶⁶ Cu	CS	3ARGCAB	Fiss		Jour	RCA,93,543	05	I.M.Cohen+	31553

30 Zinc 68

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	⁶⁵ Ni	CS	3ARGCAB	Fiss		Jour	RCA,93,543	05	I.M.Cohen+	31553
<i>n,γ</i>	⁶⁹ Zn	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,p</i>	⁶⁸ Cu	CS	3ARGCAB	Fiss		Jour	RCA,93,543	05	I.M.Cohen+	31553

30 Zinc 70

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	⁷¹ Zn	RI	3ARGCAB	1.5+06		Jour	RCA,93,543	05	I.M.Cohen+	31553

32 Germanium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

33 Arsenic 75

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	⁷⁶ As	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

35 Bromine

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

35 Bromine 79

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	⁸⁰ Br	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

35 Bromine 81

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	⁸² Br	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

37 Rubidium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

37 Rubidium 87

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	⁸⁶ Rb	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543

38 Strontium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

38 Strontium 88

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,0</i>		RP	4RUSMIF	0.0+00		Jour	YF,13,719	71	B. Yu.Guzhovskij+	F0705

39 Yttrium 89

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	⁹⁰ Y	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
<i>p,0</i>		RP	4RUSMIF	0.0+00		Jour	YF,13,719	71	B. Yu.Guzhovskij+	F0705

40 Zirconium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

40 Zirconium 90

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	⁸⁹ Zr	CS	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543
<i>p,non</i>		CS	3SAFITH	8.1+07	1.8+08	Jour	PR/C,71,064606	05	A.Auce+	D0356
<i>α,el</i>	⁹⁰ Zr	DA	2NEDGRN	4.0+07	1.2+08	Jour	NP/A,291,93	77	L.W.Put+	D0249

40 Zirconium 92

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,0</i>		RP	4RUSMIF	0.0+00		Jour	YF,13,719	71	B. Yu.Guzhovskij+	F0705

40 Zirconium 94

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

n,γ	^{95}Zr	CS	IUSAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
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40

Zirconium

96

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{97}Zr	CS	IUSAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
n,inel	^{96}Zr	CSP	IUSAKTY	2.3+06	4.0+06	Jour	NP/A,500,43	89	G.Molnar+	14075
n,inel	^{96}Zr	DAP	IUSAKTY	2.6+06	3.4+06	Jour	NP/A,500,43	89	G.Molnar+	14075

41

Niobium

93

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{94}Nb	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
$^{12}\text{C},x$	^3He	DAE	3SAFITH	4.0+08		Jour	NP/A,761,190	05	L.J.Mudau+	D0365
$^{12}\text{C},x$	^6He	DAE	3SAFITH	4.0+08		Jour	NP/A,761,190	05	L.J.Mudau+	D0365
$^{16}\text{O},x$	^8Be	CSP	3SAFITH	4.0+08		Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^8Be	DAE	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{10}B	CS	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{11}B	CS	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{11}B	DAE	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{12}C	CS	3SAFITH	2.5+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{12}C	DAE	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{14}N	CS	3SAFITH	2.5+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{14}N	DAE	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306
$^{16}\text{O},x$	^{15}N	CS	3SAFITH	2.5+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306

42

Molybdenum

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

42

Molybdenum

92

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,el	^{92}Mo	DA	IUSAKTY	3.5+06		Jour	PR/C,9,670	74	J.D.Brandenberger+	14068
n,inel	^{92}Mo	DAP	IUSAKTY	3.5+06	8.5+06	Jour	PR/C,9,670	74	J.D.Brandenberger+	14068
α,el	^{92}Mo	DA	3HUNDEB	1.4+07	2.0+07	Jour	PR/C,64,065805	01	Zs.Fulop+	D0375

42 Molybdenum 94

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,el</i>	⁹⁴ Mo	DA	1USAQTY	3.5+06		Jour	PR/C,9,670	74	J.D.Brandenberger+	14068
<i>n,inel</i>	⁹⁴ Mo	DAP	1USAQTY	8.5+06		Jour	PR/C,9,670	74	J.D.Brandenberger+	14068

42 Molybdenum 96

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,el</i>	⁹⁶ Mo	DA	1USAQTY	3.5+06		Jour	PR/C,9,670	74	J.D.Brandenberger+	14068
<i>n,inel</i>	⁹⁶ Mo	DAP	1USAQTY	8.5+06		Jour	PR/C,9,670	74	J.D.Brandenberger+	14068

42 Molybdenum 98

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,inel</i>	⁹⁸ Mo	DAP	1USAQTY	8.5+06		Jour	PR/C,9,670	74	J.D.Brandenberger+	14068

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	3VN IPH	1.4+07		Jour	NP/A,722,568	03	Tranduethiep+	31543
<i>n,el</i>	¹⁰⁰ Mo	DA	1USAQTY	3.5+06		Jour	PR/C,9,670	74	J.D.Brandenberger+	14068

44 Ruthenium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

44 Ruthenium 96

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	⁹⁵ Ru	CS	3PAKNIL	Fiss		Jour	RCA,85,9	99	M.Arif+	31564
<i>n,α</i>	⁹³ Mo	CS	3PAKNIL	Fiss		Jour	RCA,85,9	99	M.Arif+	31564
<i>n,γ</i>	⁹⁷ Ru	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,p</i>	⁹⁶ Tc	CS	3PAKNIL	Fiss		Jour	RCA,93,547	05	J.H.Zaidi+	31554
<i>n,p</i>	⁹⁶ Tc	CS	3PAKNIL	Fiss		Jour	RCA,85,9	99	M.Arif+	31564

44 Ruthenium 99

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	⁹⁹ Tc	CS	3PAKNIL	Fiss		Jour	RCA,85,9	99	M.Arif+	31564
<i>d,t</i>	⁹⁸ Ru	DAP	3BZLUSP	1.5+07		Jour	PR/C,66,034314	02	M.R.D.Rodrigues+	D0313

44 Ruthenium 101

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	¹⁰¹ Tc	CS	3PAKNIL	Fiss		Jour	RCA,85,9	99	M.Arif+	31564

44 Ruthenium 102

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	⁹⁹ Mo	CS	3PAKNIL	Fiss		Jour	RCA,85,9	99	M.Arif+	31564
<i>n,γ</i>	¹⁰³ Ru	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

44 Ruthenium 104

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	¹⁰¹ Mo	CS	3PAKNIL	Fiss		Jour	RCA,85,9	99	M.Arif+	31564
<i>n,γ</i>	¹⁰⁵ Ru	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,p</i>	¹⁰⁴ Tc	CS	3PAKNIL	Fiss		Jour	RCA,85,9	99	M.Arif+	31564

45 Rhodium 103

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁰⁴ Rh	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,γ</i>	¹⁰⁴ Rh	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

47 Silver

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
<i>n,tot</i>		CS	3KORPUE	1.5-01	1.0+02	Conf	2004SANTA,740	04	G.Kim+	31550

47

Silver

109

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,0$		RP	1USALAS	0.0+00		Jour	PR/C,56,90	97	L.Y.Lowie+	14059

48

Cadmium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
p,x	^{114}In	CS	2BLGVUB	7.4+06	5.0+07	Jour	RCA,93,561	05	F.Tarkanyi+	D4160
p,x	^{114}In	TT	2BLGVUB	0.0+00		Jour	RCA,93,561	05	F.Tarkanyi+	D4160
d,x	^{114}In	CS	2BLGVUB	5.1+06	2.1+07	Jour	RCA,93,561	05	F.Tarkanyi+	D4160

48

Cadmium

106

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{103}Pd	CS	3PAKNIL	Fiss		Jour	RCA,94,1	06	I.A.Abbasi+	31566
n,p	^{106}Ag	CS	3PAKNIL	Fiss		Jour	RCA,94,1	06	I.A.Abbasi+	31566

48

Cadmium

108

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{108}Ag	CS	3PAKNIL	Fiss		Jour	RCA,94,1	06	I.A.Abbasi+	31566

48

Cadmium

110

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{111}Cd	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
n,γ	^{111}Cd	?	1USAMTR	2.5+04		Prog	IN-1317,39	70	R.P.Schuman+	14080
n,p	^{110}Ag	CS	3PAKNIL	Fiss		Jour	RCA,94,1	06	I.A.Abbasi+	31566

48

Cadmium

111

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{111}Ag	CS	3PAKNIL	Fiss		Jour	RCA,94,1	06	I.A.Abbasi+	31566

48

Cadmium

112

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{109}Pd	CS	3PAKNIL	Fiss		Jour	RCA,94,1	06	I.A.Abbasi+	31566
n,p	^{112}Ag	CS	3PAKNIL	Fiss		Jour	RCA,94,1	06	I.A.Abbasi+	31566

48

Cadmium

113

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{114}Cd	SPC	3KORNSU	Maxwl		Jour	JRN,256,541	03	G.M.Sun+	31549
n,p	^{113}Ag	CS	3PAKNIL	Fiss		Jour	RCA,94,1	06	I.A.Abbasi+	31566
d,n	^{114}In	TT	2BLGVUB	5.0+06	2.0+07	Jour	RCA,93,561	05	F.Tarkanyi+	D4160

48

Cadmium

114

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{111}Pd	CS	3PAKNIL	Fiss		Jour	RCA,94,1	06	I.A.Abbasi+	31566
n,γ	^{115}Cd	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
n,γ	^{115}Cd	?	1USAMTR	2.5+04		Prog	IN-1317,39	70	R.P.Schuman+	14080
$p,2n$	^{113}In	CS	2BLGVUB	1.0+07	3.6+07	Jour	RCA,93,561	05	F.Tarkanyi+	D4160
p,α	^{111}Ag	CS	2BLGVUB	1.2+07	3.6+07	Jour	RCA,93,561	05	F.Tarkanyi+	D4160
p,γ	^{115}In	CS	2BLGVUB	3.5+06	3.6+07	Jour	RCA,93,561	05	F.Tarkanyi+	D4160
$d,3n$	^{113}In	CS	2BLGVUB	2.1+07	2.4+06	Jour	RCA,93,561	05	F.Tarkanyi+	D4160
d,α	^{112}Ag	CS	2BLGVUB	2.1+07	9.2+06	Jour	RCA,93,561	05	F.Tarkanyi+	D4160
d,n	^{115}In	CS	2BLGVUB	2.1+07	2.4+06	Jour	RCA,93,561	05	F.Tarkanyi+	D4160

49

Indium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

49

Indium

115

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{116}In	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
n,γ	^{116}In	?	1USAMTR	2.5+04		Prog	IN-1317,39	70	R.P.Schuman+	14080
n,inel	^{115}In	CS	1USAMIT	6.0+05	1.8+06	Jour	PR,93,197	54	A.A.Ebel+	14081

50 Tin

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

50 Tin 112

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{111}Sn	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
$n,2n$	^{111}Sn	CS	3PAKNIL	Fiss		Jour	RCA,75,175	96	M.Arif+	31562
n,p	^{112}In	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,x	^{111}In	CS	3PAKNIL	Fiss		Jour	RCA,75,175	96	M.Arif+	31562

50 Tin 114

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{113}Sn	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,p	^{114}In	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,p	^{114}In	CS	3PAKNIL	Fiss		Jour	RCA,75,175	96	M.Arif+	31562

50 Tin 115

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{115}In	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,p	^{115}In	CS	3PAKNIL	Fiss		Jour	RCA,75,175	96	M.Arif+	31562

50 Tin 116

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{116}In	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,p	^{116}In	CS	3PAKNIL	Fiss		Jour	RCA,75,175	96	M.Arif+	31562

50 Tin 117

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,inel	^{117}Sn	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
$n,n+p$	^{116}In	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,p	^{117}In	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,p	^{117}In	CS	3PAKNIL	Fiss		Jour	RCA,75,175	96	M.Arif+	31562

50 Tin 118

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{117}Sn	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,α	^{115}Cd	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,α	^{115}Cd	CS	3PAKNIL	Fiss		Jour	RCA,75,175	96	M.Arif+	31562

50 Tin 120

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{117}Cd	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551
n,α	^{117}Cd	CS	3PAKNIL	Fiss		Jour	RCA,75,175	96	M.Arif+	31562
p,el	^{120}Sn	POD	2UK NIN	3.0+07		Jour	PR/C,2,1063	70	G.W.Greenlees+	D0334

50 Tin 124

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{123}Sn	CS	3POLIPJ	1.4+07		Jour	RCA,93,311	05	E.Betak+	31551

51 Antimony

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
α,x	^{123}I	CS	2GERJUL	2.6+07	8.2+06	Jour	ARI,64,101	06	K.F.Hassan+	D4159
α,x	^{123}I	TT	2GERJUL	1.3+07		Jour	ARI,64,101	06	K.F.Hassan+	D4159
α,x	^{125}I	CS	2GERJUL	2.6+07	7.7+06	Jour	ARI,64,101	06	K.F.Hassan+	D4159

51 Antimony 121

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{122}Sb	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
$\alpha,2n$	^{123}I	TT	2GERJUL	1.3+07		Jour	ARI,64,101	06	K.F.Hassan+	D4159
α,n	^{124}I	CS	2GERJUL	2.6+07	9.3+06	Jour	ARI,64,101	06	K.F.Hassan+	D4159

51 Antimony 123

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{124}Sb	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

52 Tellurium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

52 Tellurium 120

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹¹⁹ Te	CS	3PAKNIL	Fiss		Jour	RCA,73,45	96	M.Arif+	31563
<i>n,p</i>	¹²⁰ Sb	CS	3PAKNIL	Fiss		Jour	RCA,73,45	96	M.Arif+	31563

52 Tellurium 122

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	¹²² Sb	CS	3PAKNIL	Fiss		Jour	RCA,73,45	96	M.Arif+	31563

52 Tellurium 124

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	¹²⁴ Sb	CS	3PAKNIL	Fiss		Jour	RCA,73,45	96	M.Arif+	31563

52 Tellurium 125

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	¹²⁵ Sb	CS	3PAKNIL	Fiss		Jour	RCA,73,45	96	M.Arif+	31563

52 Tellurium 126

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,α</i>	¹²³ Sn	CS	3PAKNIL	Fiss		Jour	RCA,73,45	96	M.Arif+	31563
<i>n,p</i>	¹²⁶ Sb	CS	3PAKNIL	Fiss		Jour	RCA,73,45	96	M.Arif+	31563

52

Tellurium

128

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{125}Sn	CS	3PAKNIL	Fiss		Jour	RCA,73,45	96	M.Arif+	31563

53

Iodine

127

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{128}I	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

54

Xenon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

54

Xenon

136

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	^{135}Xe	CS	4ZZZDUB	0.0+00	2.5+07	Jour	YF,64,1987	01	A.G.Belov+	M0629

55

Cesium

133

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{134}Cs	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
n,γ	^{134}Cs	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

56

Barium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

56

Barium

132

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{132}Cs	CS	1USAARK	2.5-02		Jour	BAP,1,40	56	B.L.Robinson+	14073

56

Barium

136

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{136}Cs	CS	1USAARK	2.5-02		Jour	BAP,1,40	56	B.L.Robinson+	14073

56

Barium

138

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	^{137}Ba	CS	4ZZZDUB	0.0+00	2.5+07	Jour	YF,64,1987	01	A.G.Belov+	M0629

57

Lanthanum

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

57

Lanthanum

139

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{140}La	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

58

Cerium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

59

Praesodymium

141

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{142}Pr	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
$\alpha,2n$	^{143}Pm	CS	3INDVEC	1.8+07	4.5+07	Jour	JPI,74,1150	05	M.Afzalansari+	D0361
α,n	^{144}Pm	CS	3INDVEC	1.6+07	4.5+07	Jour	JPI,74,1150	05	M.Afzalansari+	D0361

60

Neodymium

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

<i>n,γ</i>	CSP	3HUNII	5.0-04	Jour	RCA,91,361	03	Zs.Revay+	31558		
			60	Neodymium			146			
Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max		Ref Vol Page			
<i>n,inel</i>	¹⁴⁶ Nd	DAP	1USAKTY	3.0+06		Conf	93FRIBOU,,162	93	D.P.Diprete+	14069
			62	Samarium			144			
Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max		Ref Vol Page			
<i>n,γ</i>	CSP	3HUNII	5.0-04	Jour	RCA,91,361	03	Zs.Revay+	31558		
			62	Samarium			144			
Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max		Ref Vol Page			
<i>γ,n</i>	¹⁴³ Sm	CS	4ZZZDUB	0.0+00	2.5+07	Jour	YF,64,1987	01	A.G.Belov+	M0629
			62	Samarium			149			
Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max		Ref Vol Page			
<i>n,γ</i>	¹⁵⁰ Sm	SPC	3KORNSU	Maxwl		Jour	JRN,256,541	03	G.M.Sun+	31549
			62	Samarium			154			
Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max		Ref Vol Page			
<i>d,p</i>	¹⁵⁵ Sm	DAP	2DENNBI	1.2+07		Jour	APP/B,10,137	79	M.Jaskola+	D0331
<i>d,t</i>	¹⁵³ Sm	DAP	2DENNBI	1.2+07		Jour	APP/B,10,137	79	M.Jaskola+	D0331
			63	Europium						
Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max		Ref Vol Page			
<i>n,γ</i>	CSP	3HUNII	5.0-04	Jour	RCA,91,361	03	Zs.Revay+	31558		

63 Europium 151

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	¹⁵⁰ Eu	CS	3PAKNIL	Fiss		Jour	RCA,90,61	02	I.Fatima+	31560
n,α	¹⁴⁸ Pm	CS	3PAKNIL	Fiss		Jour	RCA,90,61	02	I.Fatima+	31560
n,γ	¹⁵² Eu	SPC	3KORNSU	Maxwl		Jour	JRN,256,541	03	G.M.Sun+	31549

63 Europium 153

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	¹⁵⁰ Pm	CS	3PAKNIL	Fiss		Jour	RCA,90,61	02	I.Fatima+	31560
n,p	¹⁵³ Sm	CS	3PAKNIL	Fiss		Jour	RCA,93,547	05	J.H.Zaidi+	31554
n,p	¹⁵³ Sm	CS	3PAKNIL	Fiss		Jour	RCA,90,61	02	I.Fatima+	31560

64 Gadolinium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

64 Gadolinium 155

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	¹⁵⁶ Gd	SPC	3KORNSU	Maxwl		Jour	JRN,256,541	03	G.M.Sun+	31549

64 Gadolinium 157

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	¹⁵⁸ Gd	SPC	3KORNSU	Maxwl		Jour	JRN,256,541	03	G.M.Sun+	31549

64 Gadolinium 158

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,inel	¹⁵⁸ Gd	CSP	1USAKTY	1.8+06	3.3+06	Conf	2001BERKEL.,798	01	S.R.Lesher+	14070

65 Terbium 159

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

n,γ	^{160}Tb	CS	IUSAMTR	2.0+03	Prog	IN-1317,39	70	R.P.Schuman+	14080
n,γ	^{160}Tb	CSP	3HUNII	5.0-04	Jour	RCA,91,361	03	Zs.Revay+	31558

66 Dysprosium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

66 Dysprosium 156

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,2n$	^{155}Dy	CS	3PAKNIL	Fiss		Jour	RCA,90,443	02	S.Waheed+	31565
n,α	^{153}Gd	CS	3PAKNIL	Fiss		Jour	RCA,93,547	05	J.H.Zaidi+	31554
n,α	^{153}Gd	CS	3PAKNIL	Fiss		Jour	RCA,90,443	02	S.Waheed+	31565
n,p	^{156}Tb	CS	3PAKNIL	Fiss		Jour	RCA,90,443	02	S.Waheed+	31565

66 Dysprosium 158

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{158}Tb	CS	3PAKNIL	Fiss		Jour	RCA,90,443	02	S.Waheed+	31565

66 Dysprosium 160

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{160}Tb	CS	3PAKNIL	Fiss		Jour	RCA,90,443	02	S.Waheed+	31565

66 Dysprosium 161

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{161}Tb	CS	3PAKNIL	Fiss		Jour	RCA,90,443	02	S.Waheed+	31565

66 Dysprosium 162

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α	^{159}Gd	CS	3PAKNIL	Fiss		Jour	RCA,90,443	02	S.Waheed+	31565

67 Holmium 165

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁶⁶ Ho	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

67 Holmium 166

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁶⁷ Ho	SPC	1USABNL	2.0+03		Jour	PR/C,61,044305	00	P.Prokofjevs+	14057

68 Erbium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

68 Erbium 166

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,p</i>	¹⁶⁷ Er	DAP	2DENNBI	1.2+07		Jour	APP/B,10,137	79	M.Jaskola+	D0331
<i>d,t</i>	¹⁶⁵ Er	DAP	2DENNBI	1.2+07		Jour	APP/B,10,137	79	M.Jaskola+	D0331

68 Erbium 168

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,inel</i>	¹⁶⁸ Er	CSP	1USAKTY	2.0+06	2.2+06	Jour	JP/G,11,877	85	S.W.Yates+	14072
<i>n,inel</i>	¹⁶⁸ Er	CSP	1USAKTY	2.1+06	3.5+06	Jour	PR/C,28,943	83	E.W.Kleppinger+	14071
<i>n,inel</i>	¹⁶⁸ Er	DAP	1USAKTY	2.5+06		Jour	PR/C,28,943	83	E.W.Kleppinger+	14071

69 Thulium 169

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁷⁰ Tm	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

70 Ytterbium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

70 Ytterbium 170

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

<i>d,p</i>	¹⁷¹ Yb	DAP	2DENNBI	1.2+07		Jour	APP/B,10,137	79	M.Jaskola+	D0331
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70 Ytterbium 176

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

<i>d,n</i>	¹⁷⁷ Lu	CS	2BLGVUB	2.0+07	3.2+06	Conf	2005BRUSS,,	05	A.Hermanne+	D4165
<i>d,p</i>	¹⁷⁷ Yb	CS	2BLGVUB	2.0+07	3.2+06	Conf	2005BRUSS,,	05	A.Hermanne+	D4165
<i>d,p</i>	¹⁷⁷ Yb	DAP	2DENNBI	1.2+07		Jour	APP/B,10,137	79	M.Jaskola+	D0331

71 Lutetium

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

<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
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72 Hafnium

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

<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
<i>n,tot</i>		CS	3KORPUE	1.5-01	9.8+01	Conf	2004SANTA,740	04	G.Kim+	31550

73 Tantalum

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

<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
<i>n,tot</i>		CS	3KORPUE	1.6-01	9.6+01	Conf	2004SANTA,740	04	G.Kim+	31550

73 Tantalum 181

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

<i>n,γ</i>	¹⁸² Ta	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
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74 Tungsten

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,el	^{nat}W	DA	3AULQUC	3.4+05	1.4+06	Jour	AUJ,34,125	81	R.B.Taylor+	M0419
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

74 Tungsten 182

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{183}W	DAP	1USATNC	1.0+06		Prog	TID-20652,	70	P.S.Buchanan	14084
$n,inel$	^{182}W	DAP	1USATNC	1.0+06		Prog	TID-20652,	70	P.S.Buchanan	14084

76 Osmium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

77 Iridium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
n,γ		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
p,x	^{185}Os	CS	2BLGVUB	4.2+07	6.6+07	Jour	NIM/B,239,293	05	F.Tarkanyi+	D4161
p,x	^{186}Ir	CS	2BLGVUB	3.3+06	6.6+07	Jour	NIM/B,239,293	05	F.Tarkanyi+	D4161
p,x	^{190}Ir	CS	2BLGVUB	3.3+06	6.6+07	Jour	NIM/B,239,293	05	F.Tarkanyi+	D4161
p,x	^{188}Pt	CS	2BLGVUB	1.6+07	6.6+07	Jour	NIM/B,239,293	05	F.Tarkanyi+	D4161
p,x	^{191}Pt	CS	2BLGVUB	1.6+07	6.6+07	Jour	NIM/B,239,293	05	F.Tarkanyi+	D4161

77 Iridium 191

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{192}Ir	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

77 Iridium 193

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{194}Ir	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

78 Platinum

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

78 Platinum 198

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,inel</i>	¹⁹⁸ Pt	DAP	1USAKTY	1.7+06		Conf	86DUBROV.,624	86	S.W.Yates+	14074

79 Gold 197

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,0</i>		RP	1USARPI	0.0+00		Conf	94GATLIN,,81	94	R.C.Block+	14086
<i>n,γ</i>	¹⁹⁸ Au	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
<i>n,γ</i>	¹⁹⁸ Au	?	1USAMTR	2.5+04		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,inel</i>	¹⁹⁷ Au	CS	1USAMIT	5.2+05	2.0+06	Jour	PR,93,197	54	A.A.Ebel+	14081
¹⁶ O,x	⁸ Be	DAE	3SAFITH	1.0+08	4.0+08	Jour	EPJ/A,17,195	03	E.Gadioli+	D0306

79 Gold 198

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,2n</i>	¹⁹⁶ Au	?	4ZZZDUB	0.0+00	2.2+07	Jour	YF,67,1251	04	Yu.P.Gangrsky+	M0679

80 Mercury

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

80 Mercury 202

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,inel</i>	²⁰² Hg	DAP	1USAKTY	1.9+06	3.0+06	Jour	NP/A,492,45	89	R.A.Gatenby+	14077

81 Thallium

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

<i>n,γ</i>	CSP	3HUNII	5.0-04	Jour	RCA,91,361	03	Zs.Revay+	31558
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82 Lead

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	CSP	3HUNII	5.0-04			Jour	JRN,265,169	05	Zs.Revay+	31555
<i>n,γ</i>	CSP	3HUNII	5.0-04			Jour	RCA,91,361	03	Zs.Revay+	31558

82 Lead 204

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,inel</i>	²⁰⁴ Pb	DAP	1USAKTY	1.8+06	3.0+06	Jour	PR/C,37,1840	88	J.M.Hanly+	14076

82 Lead 208

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	²⁰⁸ Pb	POD	2UK NIN	3.0+07		Jour	PR/C,2,1063	70	G.W.Greenlees+	D0334
<i>p,γ</i>	²⁰⁹ Bi	DAP	3SAFITH	1.1+07	1.7+07	Jour	PL/B,593,61	04	M.Lipoglavsek+	D0363
<i>p,non</i>		CS	3SAFITH	8.1+07	1.8+08	Jour	PR/C,71,064606	05	A.Auce+	D0356

83 Bismuth 209

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	²¹⁰ Bi	CS	3HUNII	5.0-04		Jour	JRN,265,267	05	A.Borella+	31552
<i>n,γ</i>	²¹⁰ Bi	CSP	3HUNII	5.0-04		Jour	JRN,265,267	05	A.Borella+	31552
<i>n,γ</i>	²¹⁰ Bi	CSP	3HUNII	5.0-04		Jour	JRN,265,169	05	Zs.Revay+	31555
<i>n,γ</i>	²¹⁰ Bi	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

90 Thorium 232

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>	¹ Nn	PY	1USALRL	1.4+07		Jour	NSE,72,35	79	L.F.Hansen+	14061
<i>n,γ</i>	²³³ Th	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,γ</i>	²³³ Th	CS	3BZLUSP	2.5-02		Conf	2004SANTA,1466	04	N.L.Maidana+	31548
<i>n,γ</i>	²³³ Th	CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558
<i>n,tot</i>		CS	1USAPUP	1.4+07		Rept	AECD-3018	50	A.H.Lasday	14085

91 Protactinium 232

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		CS	1USALAS	2.5-02		Jour	NSE,124,482	96	Y.Danon+	13602
<i>n,f</i>		RI	1USALAS	2.5-02		Jour	NSE,124,482	96	Y.Danon+	13602

92 Uranium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		CSP	3HUNII	5.0-04		Jour	RCA,91,361	03	Zs.Revay+	31558

92 Uranium 233

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,abs</i>		ETA	1USAKAP	1.0+00	2.9+01	Priv	YEATER	57	M.L.Yeater+	14083
<i>n,f</i>	Many	FY	1CANMCM	0.0+00	2.0-01	Jour	CJP,61,1490	83	K.J.Rosman+	14087

92 Uranium 235

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080
<i>n,f</i>		DAE	1USALRL	1.4+07		Jour	NSE,72,35	79	L.F.Hansen+	14061
<i>n,f</i>		KE	1USALRL	1.4+07		Jour	PR,107,1642	57	S.R.Gunn+	14062
<i>n,f</i>		KE	1USALRL	1.4+07		Jour	PR,117,186	60	P.C.Stevenson+	14063
<i>n,f</i>	Many	FY	1CANMCM	0.0+00	2.0-01	Jour	CJP,61,1490	83	K.J.Rosman+	14087
<i>n,f</i>	Many	FY	1USAANL	2.5-02		Jour	PR,79,271	50	M.G.Inghram+	12106
<i>n,f</i>	Many	FY	1USAHED	Fast		Priv	McElroy	73	W.N.Mcelroy	14067
<i>n,f</i>	Many	FY	1CANMCM	0.0+00	2.0-01	Jour	CJP,61,1490	83	K.J.Rosman+	14087
<i>n,f</i>	Many	FY	1USAAUI	2.5-02		Jour	DA/B,28,2759	68	A.Tsoukatos	14088
<i>n,f</i>	⁹⁹ Mo	FY	1USALRL	1.4+07		Jour	PR,117,186	60	P.C.Stevenson+	14063
<i>n,f</i>	¹⁵² Sm	FY	1USAANL	2.5-02		Jour	PR,79,271	50	M.G.Inghram+	12106
<i>n,f</i>	¹⁵⁸ Gd	FY	1USAANL	2.5-02		Jour	PR,79,271	50	M.G.Inghram+	12106

92 Uranium 236

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,2n</i>	²³⁵ Np	CS	2SF JYV	1.8+07	4.0+07	Jour	RCA,93,377	05	J.Aaltonen+	D0362
<i>p,2n</i>	²³⁵ Np	TT	2SF JYV	4.0+07		Jour	RCA,93,377	05	J.Aaltonen+	D0362
<i>p,3n</i>	²³⁴ Np	CS	2SF JYV	1.8+07	4.0+07	Jour	RCA,93,377	05	J.Aaltonen+	D0362
<i>p,n</i>	²³⁶ Np	CS	2SF JYV	1.8+07	4.0+07	Jour	RCA,93,377	05	J.Aaltonen+	D0362
<i>p,x</i>	²³⁶ Pu	TT	2SF JYV	4.0+07		Jour	RCA,93,377	05	J.Aaltonen+	D0362

92 Uranium 238

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		DAE	1USALRL	1.4+07		Jour	NSE,72,35	79	L.F.Hansen+	14061
<i>n,f</i>		KE	1USALRL	1.4+07		Jour	PR,117,186	60	P.C.Stevenson+	14063
<i>n,f</i>	Many	FY	1CANMCM	2.0-01		Jour	CJP,61,1490	83	K.J.Rosman+	14087
<i>n,f</i>	Many	FY	1USAHED	Fast		Priv	McElroy	73	W.N.Mcelroy	14067
<i>n,f</i>	Many	FY	1CANMCM	2.0-01		Jour	CJP,61,1490	83	K.J.Rosman+	14087
<i>n,f</i>	⁹⁹ Mo	FY	1USALRL	1.4+07		Jour	PR,117,186	60	P.C.Stevenson+	14063
<i>n,γ</i>	²³⁹ U	CS	1USAMTR	2.0+03		Prog	IN-1317,39	70	R.P.Schuman+	14080

93 Neptunium 236

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		CS	1USALAS	2.5-02		Jour	NSE,124,482	96	Y.Danon+	13602
<i>n,f</i>		RI	1USALAS	2.5-02		Jour	NSE,124,482	96	Y.Danon+	13602

93 Neptunium 237

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,f</i>	Many	FY	4ZZZDUB	0.0+00	2.5+07	Jour	YF,68,1575	05	Yu.P.Gangrsky+	M0683
<i>n,f</i>	Many	FY	1USAHED	Fast		Priv	McElroy	73	W.N.Mcelroy	14067

93 Neptunium 238

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		CS	1USALAS	2.5-02		Jour	NSE,124,482	96	Y.Danon+	13602
<i>n,f</i>		RI	1USALAS	2.5-02		Jour	NSE,124,482	96	Y.Danon+	13602

94 Plutonium 238

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,f</i>		CS	4RUSFEI	0.0+00	1.0+07	Jour	YF,63,36	00	A.S.Soldatov+	M0633

94 Plutonium 239

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		DAE	1USALRL	1.4+07		Jour	NSE,72,35	79	L.F.Hansen+	14061
<i>n,f</i>	Many	FY	1USAHED	Fast		Priv	McElroy	73	W.N.Mcelroy	14067

n,f ⁹⁹Mo ? 1USAUSA 6.0-02 3.6-01 Jour PR,119,2017 60 R.B.Regier+ 14078

94 Plutonium 240

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

<i>γ</i> ,f		CS	4RUSFEI	0.0+00	9.4+06	Jour	YF,63,36	00	A.S.Soldatov+	M0633
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94 Plutonium 241

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

<i>n</i> ,f		CS	1USAMTR	2.0+01	9.8+05	Conf	66WASH,2,910(F-6)	66	O.D.Simpson+	12553
<i>n</i> ,f	⁹⁹ Mo	?	1USAUSA	3.0-01		Jour	PR,119,2017	60	R.B.Regier+	14078

94 Plutonium 242

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

<i>γ</i> ,f		CS	4RUSFEI	0.0+00	9.4+06	Jour	YF,63,36	00	A.S.Soldatov+	M0633
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95 Americium 243

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

<i>γ</i> ,f	Many	FY	4ZZZDUB	0.0+00	2.5+07	Jour	YF,68,1575	05	Yu.P.Gangrsky+	M0683
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98 Californium 252

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

0,f		DAE	1USABRK	Spont		Jour	PR,156,1283	67	Z.Fraenkel	14066
0,f		DA	1USABRK	Spont		Jour	PR,156,1283	67	Z.Fraenkel	14066
0,f		DE	1USABRK	Spont		Jour	PR,156,1283	67	Z.Fraenkel	14066
0,f		KE	1USABRK	Spont		Jour	PR,129,2133	63	H.R.Bowman+	14065
0,f		NU	1USABRK	Spont		Jour	PR,129,2133	63	H.R.Bowman+	14065
0,f	Many	FY	1USALRL	Spont		Jour	PR,119,1685	60	W.E.Nervik	14079
0,f	Many	KE	1USABRK	Spont		Jour	PR,129,2133	63	H.R.Bowman+	14065
0,f	Many	NU	1USABRK	Spont		Jour	PR,129,2133	63	H.R.Bowman+	14065
0,f	NPART	NU	1USABRK	Spont		Jour	PR,97,564	55	D.A.Hicks+	14064

99**Einsteinium****254**

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,f</i>		CS	1USAORL	2.5-02		Jour	NSE,90,298	85	J.Halperin+	12933

102**Nobelium****262**

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
0,f	Many	FY	1USALRL	Spont		Prog	UCRL-53929,229	89	R.W.Lougheed+	14060