EXFOR News (September 2012)

New experimental data available from Nuclear Reaction Data Centres

EXFOR is a world-wide data library for experimental neutron induced, charged-particle induced and photonuclear reaction data compiled by the International Network of the Nuclear Reaction Data Centres (NRDC)[a] coordinated by the IAEA Nuclear Data Section. Regularly updated retrieval database is available at NNDC, NEADB, IAEA-NDS, JAEA, JCPRG and CDFE. Please send an email to n.otsuka@iaea.org if you would prefer to be advised electronically when EXFOR News is released.

Quantity codes

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

Special codes in outgoing particle field

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

Special codes in incident energy field

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

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

1 Hydrogen 1

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
^{26}Si,0		RP	2JPNIPC			Jour	PR/C,85,(4),045802	Apr 12	H.S.Jung+	E2372
^{26}Si,el	^{1}H	DA	2JPNIPC	1.3+06	2.8+06	Jour	PR/C,85,(4),045802	Apr 12	H.S.Jung+	E2372
^{34}Si,0		RP	2JPNIPC			Jour	PR/C,85,(3),034313	Mar 12	N.Imai+	E2375
^{34}Si,el	^{1}H	DA	2JPNIPC	2.5+06	5.5+06	Jour	PR/C,85,(3),034313	Mar 12	N.Imai+	E2375

3 Lithium

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116
d,x+n	inclusive	TTD	2JPNJAE	3.2+07	3.2+07	Prog	JAERI-M-91-170,137	91	M.Sugimoto+	E2358

3 Lithium 6

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
d,α	^{4}He	CS	2JPNTOH	1.9+04	5.2+04	Jour	JPJ,80,084201	Aug 11	K.Fang+	E2357
d,α	^{4}He	TT	2JPNTOH	2.5+04	7.0+04	Jour	JPJ,80,084201	Aug 11	K.Fang+	E2357

3 Lithium 7

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,α	^{4}He	CS	2JPNTOH	2.0+04	6.1+04	Jour	JPJ,80,084201	Aug 11	K.Fang+	E2357
p,α	^{4}He	TT	2JPNTOH	2.2+04	7.0+04	Jour	JPJ,80,084201	Aug 11	K.Fang+	E2357
p,x+n	inclusive	TTD	2JPNTOH	6.8+07	7.0+07	Jour	KPS,59,(2),1676	Aug 11	S.Kamada+	E2366

4 Beryllium 9

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
γ,0		RP	1USATNL			Jour	PR/C,85,044605	12	C.W.Arnold+	L0171
γ,n	^{8}Be	CS	1USATNL	1.5+06	5.2+06	Jour	PR/C,85,044605	12	C.W.Arnold+	L0171
p,x+n	inclusive	TTD	2JPNTOH	1.1+07	1.1+07	Jour	KPS,59,(2),1676	Aug 11	S.Kamada+	E2366
p,x+n	inclusive	TTD	4RUSFEI	1.2+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116
p,x+n	inclusive	TTD	2JPNTOH	6.4+07	7.0+07	Jour	KPS,59,(2),1676	Aug 11	S.Kamada+	E2366

6 Carbon 12

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,inel	^{12}C	CSP	1USARIC	6.6+06	1.2+07	Jour	NP,86,130	66	A.C.L.Barnard+	O0256
p,inel	^{12}C	DAP	1USARIC	6.6+06	1.2+07	Jour	NP,86,130	66	A.C.L.Barnard+	O0256
p,x+n	inclusive	TTD	4RUSFEI	1.2+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116
α,el	^{12}C	DA	2JPNOSA	3.9+08	3.9+08	Jour	PR/C,84,(5),054308	Nov 11	M.Itoh+	E2157
α,inel	^{12}C	DAE	2JPNOSA	3.9+08	3.9+08	Jour	PR/C,84,(5),054308	Nov 11	M.Itoh+	E2157
α,inel	^{12}C	DAP	2JPNOSA	3.9+08	3.9+08	Jour	PR/C,84,(5),054308	Nov 11	M.Itoh+	E2157
^{17}F,sct	^{12}C	DAP	2JPNTOK	6.0+07	6.0+07	Jour	EPJ/A,48,65	May 12	G.L.Zhang+	E2377

12 Magnesium

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

13 Aluminium 27

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	1.2+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

22 Titanium

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116
d,x+n	inclusive	TTD	2JPNKYU	9.0+06	9.0+06	Jour	KPS,59,(2),1725	Aug 11	N.Shigyo+	E2367

22 Titanium 48

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,ths	^{48}Ti	TSL	1USAANL	2.5-02	2.5-02	Jour	JAP,30,1323	Sep 59	S.S.Sidhu+	13580

26 Iron

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

27 Cobalt 59

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

28 Nickel

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

28 Nickel 58

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{59}Ni	CS	1USAORL	Maxwl	1.4+06	Jour	PR/C,47,1143	Mar 93	C.M.Perey+	12972

29 Copper

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116
d,x+n	inclusive	TTD	2JPNKYU	9.0+06	9.0+06	Jour	KPS,59,(2),1725	Aug 11	N.Shigyo+	E2367

30 Zinc

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

36 Krypton 86

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
γ,n	^{85}Kr	CS	1USATNL	9.9+06	1.1+07	Jour	JP/CS,337,012048	12	R.Raut+	L0174

38 Strontium 86

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{87}Sr	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

38 Strontium 87

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{88}Sr	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

38 Strontium 88

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{89}Sr	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

40 Zirconium 90

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{91}Zr	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

40 Zirconium 91

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{92}Zr	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

40 Zirconium 92

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{93}Zr	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

40 Zirconium 94

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{95}Zr	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

40 Zirconium 96

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{97}Zr	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

41 Niobium 93

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	1.2+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

42 Molybdenum 94

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,inel	^{94}Mo	CSP	2GERHAM	2.6+07	2.6+07	Jour	NP/A,468,247	87	E.Fretwurst+	O0580

42 Molybdenum 96

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,inel	^{96}Mo	CSP	2GERHAM	2.6+07	2.6+07	Jour	NP/A,468,247	87	E.Fretwurst+	O0580

42 Molybdenum 100

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,inel	^{100}Mo	CSP	2GERHAM	2.6+07	2.6+07	Jour	NP/A,468,247	87	E.Fretwurst+	O0580

44 Ruthenium

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,ths	^{nat}Ru	TSL	1USAANL	2.5-02	2.5-02	Jour	JAP,30,1323	Sep 59	S.S.Sidhu+	13580

48 Cadmium

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

49 Indium

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ		CS	1USAORL	3.0+04	1.7+05	Jour	PR,122,182	61	J.H.Gibbons+	11329
n,ths	^{nat}In	TSL	1USAANL	2.5-02	2.5-02	Jour	JAP,30,1323	Sep 59	S.S.Sidhu+	13580

50 Tin 116

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{117}Sn	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

50 Tin 117

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{118}Sn	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

50 Tin 118

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{119}Sn	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

50 Tin 119

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{120}Sn	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

50 Tin 120

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{121}Sn	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

52 Tellurium 122

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{123}Te	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

52 Tellurium 123

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{124}Te	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

52 Tellurium 124

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{125}Te	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

52 Tellurium 125

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{126}Te	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

52 Tellurium 126

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{127}Te	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

52 Tellurium 128

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{129}Te	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

52 Tellurium 130

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{131}Te	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

62 Samarium 144

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{145}Sm	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

62 Samarium 147

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,α	^{144}Nd	CS	1USARPI	2.5-02	7.9+04	Jour	NIM/A,673,16	12	J.T.Thompson+	14319
n,γ	^{148}Sm	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

62 Samarium 148

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{149}Sm	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

62 Samarium 149

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,α	^{146}Nd	CS	1USARPI	2.5-02	7.9+04	Jour	NIM/A,673,16	12	J.T.Thompson+	14319
n,γ	^{150}Sm	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

62 Samarium 150

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{151}Sm	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

62 Samarium 152

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{153}Sm	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

62 Samarium 154

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{155}Sm	CS	1USAORL	Maxwl		Jour	AJ,149,577	67	R.L.Macklin+	14322

64 Gadolinium 155

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,0		RP	1USALAS			Jour	PR/C,85,024622	12	B.Baramsai+	14318
n,γ	^{156}Gd	CS	1USAGRT	1.0+03	2.2+04	Conf	70HELSINKI,2,265	Jun 70	M.P.Fricke+	10049

64 Gadolinium 157

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,γ	^{158}Gd	CS	1USAGRT	1.0+03	2.2+04	Conf	70HELSINKI,2,265	Jun 70	M.P.Fricke+	10049

73 Tantalum 181

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	2.4+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

74 Tungsten

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	1.2+07	1.2+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

77 Iridium

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,ths	^{nat}Ir	TSL	1USAANL	2.5-02	2.5-02	Jour	JAP,30,1323	Sep 59	S.S.Sidhu+	13580

82 Lead

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	1.2+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

82 Lead 208

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,el	^{208}Pb	DA	1USAMSU	3.0+07	4.0+07	Jour	PR/C,85,024619	12	R.P.Devito+	14317

92 Uranium

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
p,x+n	inclusive	TTD	4RUSFEI	1.2+07	2.4+07	Jour	AE,29,456	70	V.K.Daruga+	O0116

92 Uranium 235

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,fis		CS	1USABRK		7.0+06	Jour	PR/C,85,024613	12	R.O.Hughes+	14316
n,fis		?	1USABRK		7.6+06	Jour	PR/C,85,024613	12	R.O.Hughes+	14316

92 Uranium 236

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
n,fis		CS	1USABRK	1.0+05	9.8+06	Jour	PR/C,85,024613	12	R.O.Hughes+	14316
n,fis		?	1USABRK	2.0+05	9.5+06	Jour	PR/C,85,024613	12	R.O.Hughes+	14316

92 Uranium 238

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
γ,sct		RP	1USATNL			Jour	PR/C,85,044302	12	S.L.Hammond+	L0170

98 Californium 252

Reaction	Product	Quant.	Lab.	Energy (eV) Min	Energy (eV) Max	Type	Documentation Ref Vol Page	Date	Author	Data #
0,fis	Many	FY	4ZZZDUB	Spont		Conf	2006SMOLEN,,295	06	A.V.Daniel+	14331
0,fis	^{nat}G	?	1USALRL	Spont		Jour	NIM/A,624,691	10	D.L.Bleuel+	14286
0,fis	Many	?	1USALRL	Spont		Jour	NIM/A,624,691	10	D.L.Bleuel+	14286
0,fis	^{nat}G	?	1USALRL	Spont		Jour	PR/C,85,021601	12	A.Chyzh+	14315
0,fis	Many	?	4ZZZDUB	Spont		Conf	2006SMOLEN,,295	06	A.V.Daniel+	14331
0,fis	^{106}Mo	?	1USALRL	Spont		Jour	NIM/A,624,691	10	D.L.Bleuel+	14286