

I/16B: Low Energy Neutron Physics, Neutron resonance parameters

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2-Helium	12-Magnesium	21-Scandium	29-Copper
He-3	Mg-24	Sc-45	Cu-63
He-4	Mg-25		Cu-65
	Mg-26	22-Titanium	
3-Lithium		Ti-46	30-Zinc
Li-6	13-Aluminium	Ti-47	Zn-64
Li-7	Al-27	Ti-48	Zn-66
		Ti-49	Zn-67
4-Beryllium	14-Silicon	Ti-50	Zn-68
Be-9	Si-28		Zn-70
	Si-29	23-Vanadium	
5-Boron	Si-30	V-50	31-Gallium
B-10		V-51	Ga-69
B-11	15-Phosphorus		Ga-71
	P-31	24-Chromium	
6-Carbon		Cr-50	32-Germanium
C-12	16-Sulfur	Cr-52	Ge-70
C-13	S-32	Cr-53	Ge-72
	S-33	Cr-54	Ge-73
7-Nitrogen	S-34		Ge-74
N-14		25-Manganese	Ge-76
N-15	17-Chlorine	Mn-55	
	Cl-35		33-Arsenic
8-Oxygen	Cl-36g	26-Iron	As-75
O-16	Cl-37	Fe-54	
O-17		Fe-56	34-Selenium
O-18	18 Argon	Fe-57	Se-74
	Ar-36	Fe-58	Se-76
9-Fluorine	Ar-40		Se-77
F-19		27-Cobalt	Se-78
	19-Potassium	Co-59	Se-80
10-Neon	K-39	Co-60g	Se-82
Ne-20	K-40		
Ne-21	K-41	28-Nickel	35-Bromium
Ne-22		Ni-58	Br-79
	20-Calcium	Ni-59g	Br-81
11-Sodium	Ca-40	Ni-60	
Na-22g	Ca-42	Ni-61	
Na-23	Ca-43	Ni-62	
	Ca-44	Ni-64	
	Ca-48		

36-Krypton	46-Palladium	53-Iodine	61-Promethium
Kr-78	Pd-102	I-127	Pm-147g
Kr-80	Pd-104	I-129g	Pm-148m
Kr-82	Pd-105		
Kr-83	Pd-106	54-Xenon	62-Samarium
Kr-84	Pd-107g	Xe-124	Sm-144
Kr-86	Pd-108	Xe-126	Sm-147
	Pd-110	Xe-128	Sm-148
37-Rubidium		Xe-129	Sm-149
Rb-85	47-Silver	Xe-130	Sm-150
Rb-87g	Ag-107	Xe-131	Sm-151g
	Ag-109	Xe-132	Sm-152
38-Strontium	Ag-110m	Xe-134	Sm-154
Sr-84		Xe-135g	
Sr-86	48-Cadmium	Xe-136	63-Europium
Sr-87	Cd-106		Eu-151
Sr-88	Cd-108	55-Caesium	Eu-152g
	Cd-110	Cs-133	Eu-152m
39-Yttrium	Cd-111	Cs-134g	Eu-153
Y-89	Cd-112	Cs-135g	Eu-154g
	Cd-113g		Eu-155g
40-Zirconium	Cd-114	56-Barium	
Zr-90	Cd-116	Ba-130	64-Gadolinium
Zr-91		Ba-132	Gd-152
Zr-92	49-Indium	Ba-133g	Gd-153g
Zr-93g	In-113	Ba-134	Gd-154
Zr-94	In-115g	Ba-135	Gd-155
Zr-96		Ba-136	Gd-156
	50-Tin	Ba-137	Gd-157
41-Niobium	Sn-112	Ba-138	Gd-158
Nb-93	Sn-113		Gd-160
Nb-94g	Sn-114	57-Lanthanum	
	Sn-115	La-138g	65-Terbium
42-Molybdenum	Sn-116	La-139	Tb-159
Mo-92	Sn-117		Tb-160g
Mo-94	Sn-118	58-Cerium	
Mo-95	Sn-119	Ce-136	66-Dysprosium
Mo-96	Sn-120	Ce-140	Dy-156
Mo-97	Sn-122	Ce-141g	Dy-158
Mo-98	Sn-124	Ce-142	Dy-160
Mo-100			Dy-161
		59-Praseodymium	Dy-162
43-Technetium	51-Antimony	Pr-141	Dy-163
Tc-99g	Sb-121	Pr-143g	Dy-164
	Sb-123		
44-Ruthenium	52-Tellurium	60-Neodymium	67-Holmium
Ru-99	Te-122	Nd-142	Ho-165
Ru-100	Te-123g	Nd-143	Ho-166m
Ru-101	Te-124	Nd-144g	
Ru-102	Te-125	Nd-145	
Ru-103	Te-126	Nd-146	
Ru-104	Te-128g	Nd-147g	
	Te-130g	Nd-148	
45-Rhodium		Nd-150	
Rh-103			

68-Erbium	74-Tungsten	80-Mercury	93-Neptunium
Er-162	W-180	Hg-196	Np-236
Er-164	W-181	Hg-198	Np-237
Er-166	W-182	Hg-199	Np-238
Er-167	W-183	Hg-200	
Er-168	W-184	Hg-201	94-Plutonium
Er-170	W-185	Hg-202	Pu-236
	W-186	Hg-204	Pu-238
69-Thulium			Pu-239
Tm-169	75-Rhenium	81-Thallium	Pu-240
Tm-170g	Re-185	Tl-203	Pu-241
Tm-171g	Re-186	Tl-204	Pu-242
	Re-187	Tl-205	Pu-244
70-Ytterbium			
Yb-168	76-Osmium	82-Lead	95-Americium
Yb-169g	Os-186	Pb-204	Am-241
Yb-170	Os-187	Pb-206	Am-242m
Yb-171	Os-188	Pb-207	Am-243
Yb-172	Os-189	Pb-208	
Yb-173	Os-190		96-Curium
Yb-174	Os-192	83-Bismuth	Cm-242
Yb-176		Bi-209	Cm-243
	77-Iridium		Cm-244
71-Lutetium	Ir-191	88-Radium	Cm-245
Lu-175	Ir-192g	Ra-226	Cm-246
Lu-176	Ir-193		Cm-247
		90-Thorium	Cm-248
72-Hafnium	78-Platinum	Th-228	
Hf-174	Pt-190	Th-229	
Hf-176	Pt-192	Th-230	97-Berkelium
Hf-177	Pt-194	Th-232	Bk-249
Hf-178	Pt-195		
Hf-179	Pt-196	91-Protactinium	98-Californium
Hf-180	Pt-198	Pa-231	Cf-249
		Pa-232	Cf-250
		Pa-233	Cf-251
73-Tantalum	79-Gold		Cf-252
Ta-180g	Au-197	92-Uranium	
Ta-181		U-232	
Ta-182		U-233	
		U-234	
		U-235	
		U-236	
		U-237	
		U-238	

Tables of Neutron Resonance Parameters

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