

Energy Structure of Nuclear Levels - $Z = 63 - 100$

6 Characteristics and structure of atomic nuclear levels for $Z = 63$ to $Z = 76$

(V.G. SOLOVIEV, A.V. SUSHKOV, N.YU. SHIRIKOVA)

63-Europium	67-Holmium	72-Hafnium
Eu-151	Ho-161	Hf-173
Eu-152	Ho-163	Hf-174
Eu-153	Ho-165	Hf-175
Eu-154	Ho-166	Hf-176
Eu-155		Hf-177
	68-Erbium	Hf-178
64-Gadolinium	Er-161	Hf-179
Gd-146	Er-162	Hf-180
Gd-148	Er-163	
Gd-151	Er-164	73-Tantalum
Gd-152	Er-165	Ta-179
Gd-153	Er-166	Ta-180
Gd-154	Er-167	Ta-181
Gd-155	Er-168	
Gd-156	Er-169	74-Tungsten
Gd-157	Er-170	W-180
Gd-158		W-181
Gd-159	69-Thulium	W-182
Gd-160	Tm-165	W-183
	Tm-167	W-184
65-Terbium	Tm-169	W-186
Tb-153	Tm-171	
Tb-155		75-Rhenium
Tb-157	70-Ytterbium	Re-183
Tb-158	Yb-166	Re-185
Tb-159	Yb-167	Re-187
Tb-160	Yb-168	Re-189
Tb-161	Yb-169	
	Yb-170	76-Osmium
66-Dysprosium	Yb-171	Os-184
Dy-154	Yb-172	Os-186
Dy-156	Yb-173	Os-187
Dy-158	Yb-174	Os-188
Dy-159	Yb-175	Os-189
Dy-160	Yb-176	Os-190
Dy-161		Os-192
Dy-162	71-Lutetium	
Dy-163	Lu-171	
Dy-164	Lu-173	
Dy-165	Lu-175	
	Lu-176	
	Lu-177	

7 Characteristics and structure of atomic nuclear levels for $Z = 77$ to $Z = 88$

(K.YA. GROMOV, V.I. FOMINYKH)

77-Iridium	81-Thallium	85-Astatine
Ir-183	Tl-195	At-203
Ir-185	Tl-196	At-205
Ir-186	Tl-197	At-207
Ir-187	Tl-199	At-208
Ir-189	Tl-200	At-209
Ir-191	Tl-201	
Ir-193	Tl-202	87-Radon
Ir-195	Tl-203	Rn-208
	Tl-205	Rn-209
78-Platinum	Tl-206	Rn-211
Pt-183	Tl-207	Rn-212
Pt-185		Rn-214
Pt-186	82-Lead	Rn-220
Pt-190	Pb-196	Rn-222
Pt-192	Pb-200	
Pt-193	Pb-201	87-Francium
Pt-194	Pb-203	Fr-213
Pt-195	Pb-204	Fr-217
Pt-196	Pb-205	Fr-220
Pt-198	Pb-206	
	Pb-207	88-Radium
79-Gold	Pb-208	Ra-212
Au-186	Pb-209	Ra-214
Au-189	Pb-210	Ra-216
Au-193		Ra-218
Au-195	83-Bismuth	Ra-222
Au-197	Bi-201	Ra-223
Au-198	Bi-203	Ra-224
Au-199	Bi-204	Ra-225
	Bi-205	Ra-226
80-Mercury	Bi-207	Ra-227
Hg-184	Bi-209	Ra-228
Hg-186	Bi-210	
Hg-194	Bi-213	
Hg-196	Bi-214	
Hg-198		
Hg-199	84-Polonium	
Hg-200	Po-196	
Hg-201	Po-204	
Hg-202	Po-205	
Hg-204	Po-207	
	Po-208	
	Po-209	
	Po-210	
	Po-211	
	Po-212	
	Po-213	
	Po-214	

8 Characteristics and structure of atomic nuclear levels for $Z = 89$ to $Z = 100$

(L.A. MALOV)

89-Actinium	92-Uranium	96-Curium
Ac-219	U-230	Cm-243
Ac-223	U-232	Cm-245
Ac-225	U-233	Cm-246
Ac-227	U-234	Cm-247
Ac-228	U-235	Cm-248
Ac-229	U-236	Cm-249
Ac-231	U-237	
	U-238	97-Berkelium
90-Thorium	U-239	Bk-247
Th-220		Bk-249
Th-222	93-Neptunium	Bk-250
Th-223	Np-235	Bk-251
Th-224	Np-237	
Th-226	Np-238	98-Californium
Th-227	Np-239	Cf-247
Th-228		Cf-248
Th-229	94-Plutonium	Cf-249
Th-230	Pu-237	Cf-250
Th-231	Pu-238	Cf-251
Th-232	Pu-239	Cf-252
Th-233	Pu-240	Cf-253
Th-234	Pu-241	
	Pu-242	99-Einsteinium
91-Protactinium	Pu-243	Es-251
Pa-231	Pu-245	Es-253
Pa-233		Es-254
Pa-235	95-Americium	
Pa-237	Am-239	100-Fermium
	Am-240	Fm-251
	Am-241	Fm-254
	Am-242	Fm-256
	Am-243	
	Am-244	
	Am-245	

Z = 63 - 100

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