

^{194}Pb $Z = 82$ $N = 112$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1525.891 (0.017) MeV

Qbeta+ = 2.730 (0.022) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-4.738	(0.024)	-----		
194PB 1	0.000	0+			1 10.7 M 6
194PB 2	0.931	0+			2 1.1 NS 2
194PB 3	0.965	2+			3
194PB 4				1.308 (2+)	4
194PB 5	1.540	4+			5
194PB 6				1.637 (LE 4)	6
194PB 7				1.739 (1,2+)	7
194PB 8				1.820 (5)-	8 1.1 NS 2
194PB 9				2.019 (LE 4)	9
194PB 10				2.135 (6)+	10

194PB 11				2.241 (7)-	11
194PB 12				2.299 (5-,6-)	12
194PB 13				2.407 (9)-	13 17 NS 3
194PB 14				2.408 (4+,5,6+)	14
194PB 15				2.420 (8-)	15
194PB 16				2.438 (8)+	16 17 NS 4
194PB 17				2.502 (8-)	17
194PB 18				2.524 (8+)	18
194PB 19				2.581 (10)+	19 17.2 NS 5
194PB 20				2.608	20

194PB 21				2.628 (12+)	21 370 NS 13
194PB 22				2.799 (4+:8+)	22
194PB 23				2.913 (9-)	23
194PB 24				2.931 (9+)	24
194PB 25				2.933 (11)-	25 133 NS 7
194PB 26				3.207 (10-)	26
194PB 27				3.271 (11-)	27
194PB 28				3.283 (10+)	28
194PB 29				3.349 (12+)	29
194PB 30				3.373 (11-)	30

194PB 31				3.382 (10+,11,12+)	31
194PB 32				3.471	32
194PB 33				3.475 (12)-	33
194PB 34				3.522	34
194PB 35				3.545	35
194PB 36				3.561 (14+)	36

194PB 37				3.564		37
194PB 38				3.609	(12+)	38
194PB 39				3.647	(12+)	39
194PB 40				3.727	(12-)	40

194PB 41				3.771	(11+)	41
194PB 42				3.783		42
194PB 43				3.804	(12+)	43
194PB 44				3.811		44
194PB 45				3.839	(13)-	45
194PB 46				3.844	(14+)	46
194PB 47				3.849	(13-)	47
194PB 48				3.861		48
194PB 49				3.908		49
194PB 50				3.936		50

194PB 51				3.985		51
194PB 52				4.002	(15-)	52
S-p	=	4.020	(0.019)	-----		
194PB 53				4.135	(16+)	53
194PB 54				4.161		54
194PB 55				4.210	(14+)	55
194PB 56				4.215		56
194PB 57				4.236	(12+)	57
194PB 58				4.262		58
194PB 59				4.265	(14-)	59
194PB 60				4.316		60

194PB 61				4.333	(12)	61
194PB 62				4.365	(16+)	62
194PB 63				4.365	(14-)	63
194PB 64				4.375	(16-)	64
194PB 65				4.376	(13+)	65
194PB 66				4.408	(15-)	66
194PB 67				4.448	(15)-	67
194PB 68				4.453	(15+)	68
194PB 69				4.477	(15-)	69
194PB 70				4.504	(14+)	70

194PB 71				4.512	(14+)	71
194PB 72				4.586		72
194PB 73				4.599	(17-)	73
194PB 74				4.613	(16+)	74
194PB 75				4.616	(16-)	75
194PB 76				4.641	(15+)	76
194PB 77				4.642	(15+)	77
194PB 78				4.683	(16+)	78
194PB 79				4.692	(16-)	79
194PB 80				4.701	(18-)	80

194PB 81			4.701	(16+)	81		
194PB 82			4.708	(15-)	82		
194PB 83			4.727	(16+)	83		
194PB 84			4.739	(16+)	84		
194PB 85			4.764	(15-)	85		
194PB 86			4.767	(17+)	86		
194PB 87			4.795	(18+)	87		
194PB 88			4.878	(6+)	88		
194PB 89			4.889	(17+)	89		
194PB 90			4.930	(18+)	90		

194PB 91			4.950	(17-)	91		
194PB 92			4.963	(16-)	92		
194PB 93			4.986	(17-)	93		
194PB 94			5.047	(8+)	94	14 PS	5
194PB 95			5.049	(16-)	95		
194PB 96			5.053	(17-)	96		
194PB 97			5.059		97		
194PB 98			5.089	(18-)	98		
194PB 99			5.106	(18-)	99		
194PB 100			5.108	(17-)	100		

194PB 101			5.114	(17-)	101		
194PB 102			5.122	(18+)	102		
194PB 103			5.179	(17-)	103		
194PB 104			5.200	(18+)	104		
194PB 105			5.233	(19+)	105		
194PB 106			5.250	(19-)	106		
194PB 107			5.257	(20+)	107		
194PB 108			5.261	(10+)	108	5.8 PS	12
194PB 109			5.327	(19-)	109		
194PB 110			5.329		110		

194PB 111			5.376		111		
194PB 112			5.384		112		
194PB 113			5.410	(19+)	113		
194PB 114			5.433	(18-)	114		
194PB 115			5.447	(20-)	115		
194PB 116			5.495	(19-)	116		
194PB 117			5.517	(12+)	117	3.8 PS	7
194PB 118			5.549	(20-)	118		
194PB 119			5.550	(20+)	119		
194PB 120			5.630	(20+)	120		

194PB 121			5.673		121		
194PB 122			5.685		122		
194PB 123			5.707	(21-)	123	0.16 PS	5
194PB 124			5.729	(20-)	124		
194PB 125			5.758	(20+)	125		
194PB 126			5.760	(20-)	126		

194PB 127			5.785		127
194PB 128			5.801		128
194PB 129			5.813		129
194PB 130			5.815	(14+)	130 1.8 PS 5

194PB 131			5.818	(19-)	131
194PB 132			5.824		132
194PB 133			5.825		133
194PB 134			5.908	(21-)	134
194PB 135			5.909	(20-)	135
194PB 136			5.934	(21+)	136
194PB 137			5.942	(20-)	137
194PB 138			5.973		138
194PB 139			5.993	(20-)	139
194PB 140			6.006	(21+)	140

194PB 141			6.028		141
194PB 142			6.043	(22-)	142 0.15 PS 3
194PB 143			6.083	(21+)	143
194PB 144			6.095		144
194PB 145			6.122	(21-)	145
194PB 146			6.132	(21+)	146
194PB 147			6.155	(16+)	147
194PB 148			6.165	(21-)	148
194PB 149			6.203	(21-)	149
194PB 150			6.220	(22+)	150

194PB 151			6.264	(22+)	151
194PB 152			6.276		152
194PB 153			6.308	(21-)	153
194PB 154			6.318	(22-)	154
194PB 155			6.330		155
194PB 156			6.370	(22+)	156
194PB 157			6.374	(22+)	157
194PB 158			6.416	(22+)	158
194PB 159			6.419	(23-)	159 0.13 PS 4
194PB 160			6.426		160

194PB 161			6.437		161
194PB 162			6.452	(22-)	162
194PB 163			6.489		163
194PB 164			6.510	(22-)	164
194PB 165			6.526	(23-)	165
194PB 166			6.529	(22+)	166
194PB 167			6.535	(18+)	167 0.5 PS GT
194PB 168			6.561		168
194PB 169			6.573		169
194PB 170			6.592		170

194PB 171			6.599		171

194PB 172			6.630	(23+)	172
194PB 173			6.641		173
194PB 174			6.716		174
194PB 175			6.760	(23-)	175
194PB 176			6.764	(23+)	176
S-2p = 6.774 (0.023)-----					
194PB 177			6.787	(23-)	177
194PB 178			6.796	(24-)	178
194PB 179			6.800	(23+)	179
194PB 180			6.836	(24-)	180 0.13 PS 4

194PB 181			6.843	(24+)	181
194PB 182			6.906	(23+)	182
194PB 183			6.956	(20+)	183 0.24 PS +43-14
194PB 184			6.962		184
194PB 185			7.036	(24-)	185
194PB 186			7.036		186
194PB 187			7.069	(24+)	187
194PB 188			7.070	(25+)	188
194PB 189			7.115	(24+)	189
194PB 190			7.124	(25-)	190

194PB 191			7.139	(24-)	191
194PB 192			7.160		192
194PB 193			7.182		193
194PB 194			7.260	(25-)	194
194PB 195			7.278	(24+)	195
194PB 196			7.307		196
194PB 197			7.337	(26+)	197
194PB 198			7.347		198
194PB 199			7.353	(25-)	199
194PB 200			7.365	(25+)	200

194PB 201			7.391		201
194PB 202			7.412		202
194PB 203			7.413		203
194PB 204			7.413	(22+)	204 0.17 PS +10-7
194PB 205			7.431	(25+)	205
194PB 206			7.433		206
194PB 207			7.488	(26-)	207
194PB 208			7.501	(25-)	208
194PB 209			7.639	(25+)	209
194PB 210			7.644	(27+)	210

194PB 211			7.681	(26+)	211
194PB 212			7.702	(26-)	212
194PB 213			7.716	(26-)	213
194PB 214			7.749		214
194PB 215			7.776		215
194PB 216			7.793		216

194PB 217			7.823		217
194PB 218			7.861	(27-)	218
194PB 219			7.909	(24+)	219 0.13 PS 5
194PB 220			8.005	(28+)	220

194PB 221			8.023	(27+)	221
194PB 222			8.101	(27-)	222
194PB 223			8.130	(27-)	223
194PB 224			8.174		224
194PB 225			8.257	(28-)	225
194PB 226			8.354	(28+)	226
194PB 227			8.399	(29+)	227
194PB 228			8.442	(26+)	228 0.08 PS +4-5
194PB 229			8.514	(28-)	229
194PB 230			8.515	(28-)	230

194PB 231			8.645	(29-)	231
194PB 232			8.820	(30+)	232
194PB 233			8.882	(29-)	233
194PB 234			9.010	(28+)	234 0.07 PS 2
194PB 235			9.037	(30-)	235
194PB 236			9.255	(30-)	236
194PB 237			9.261	(31+)	237
194PB 238			9.438	(31-)	238
194PB 239			9.613	(30+)	239
194PB 240			9.723	(32+)	240

S-p = 4.020 (0.019)-----
S-n = 10.050 (0.020)-----
S-2p = 6.774 (0.023)-----
S-2n = 17.799 (0.018)-----
S-alpha= -4.738 (0.024)-----

S+p = -1.107 (0.018)
S+n = -7.602 (0.018)
S+2p = -3.839 (0.018)
S+2n = -17.283 (0.019)
S+alpha = 6.310 (0.025)

gap p = 2.913 (0.026)
gap n = 2.448 (0.027)
gap 2p = 2.936 (0.030)
gap 2n = 0.516 (0.026)
gap alpha = 1.572 (0.034)