

^{194}Pb $Z = 82$ $N = 112$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1525.891 (0.017) MeV

Qbeta+ = 2.729 (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				2.419 (8-)	15
194PB 16				2.437 (8+)	16 17 NS 4
194PB 17				2.502 (8-)	17
194PB 18				2.524	18
194PB 19				2.581 (10)+	19 17.2 NS 5
194PB 20				2.609	20

194PB 21				2.628 (12+)	21 370 NS 13
194PB 22				2.645 (11)	22
194PB 23				2.799 (4 T0 8)	23
194PB 24				2.913 (9-)	24
194PB 25				2.931 (9+)	25
194PB 26				2.933 (11)-	26 133 NS 7
194PB 27				3.178	27
194PB 28				3.207 (10-)	28
194PB 29				3.271 (11-)	29
194PB 30				3.283 (10+)	30

194PB 31				3.349	31
194PB 32				3.373 (11-)	32
194PB 33				3.470	33
194PB 34				3.475 (12)-	34
194PB 35				3.521	35
194PB 36				3.561 (14+)	36

194PB 37				3.609	(10+,11,12+)	37
194PB 38				3.647	(12+)	38
194PB 39				3.727	(12-)	39
194PB 40				3.771	(11+)	40

194PB 41				3.839	(13)-	41
194PB 42				3.844		42
194PB 43				3.849	(13-)	43
194PB 44				3.936		44
194PB 45				3.985		45
194PB 46				4.002	(15-)	46
S-p =	4.020	(0.019)	-----		
194PB 47				4.135	(16+)	47
194PB 48				4.236	(12+)	48
194PB 49				4.265	(14-)	49
194PB 50				4.333	(12+)	50

194PB 51				4.365	(14-)	51
194PB 52				4.374	(16-)	52
194PB 53				4.376	(13+)	53
194PB 54				4.408	(15-)	54
194PB 55				4.449	(15)-	55
194PB 56				4.453	(15+)	56
194PB 57				4.477	(15-)	57
194PB 58				4.506	(14+)	58
194PB 59				4.599	(17-)	59
194PB 60				4.615	(16-)	60

194PB 61				4.642	(15+)	61
194PB 62				4.692	(16-)	62
194PB 63				4.701	(18-)	63
194PB 64				4.708	(15-)	64
194PB 65				4.727	(16+)	65
194PB 66				4.753	(4+)	66
194PB 67				4.795	(18+)	67
194PB 68				4.805	(16+)	68
194PB 69				4.878	(6+)	69
194PB 70				4.889	(17+)	70

194PB 71				4.889		71
194PB 72				4.950	(17-)	72
194PB 73				4.964	(16-)	73
194PB 74				5.047	(8+)	74
194PB 75				5.053		75
194PB 76				5.059		76
194PB 77				5.083	(17-)	77
194PB 78				5.089	(17-)	78
194PB 79				5.108		79
194PB 80				5.108	(17+)	80

194PB 81			5.109		81
194PB 82			5.122	(18+)	82
194PB 83			5.184		83
194PB 84			5.227	(18-)	84
194PB 85			5.257		85
194PB 86			5.260	(10+)	86 5.8 PS 12
194PB 87			5.326		87
194PB 88			5.327	(19-)	88
194PB 89			5.410	(19+)	89
194PB 90			5.424	(19-)	90

194PB 91			5.434		91
194PB 92			5.462		92
194PB 93			5.505	(18+)	93
194PB 94			5.517	(12+)	94 3.8 PS 7
194PB 95			5.549	(19-)	95
194PB 96			5.550	(20+)	96
194PB 97			5.591		97
194PB 98			5.684	(20-)	98 0.159 PS +28-42
194PB 99			5.685		99
194PB 100			5.729	(20-)	100

194PB 101			5.757	(20+)	101
194PB 102			5.759		102
194PB 103			5.787		103
194PB 104			5.815	(14+)	104 1.8 PS 5
194PB 105			5.824		105
194PB 106			5.825		106
194PB 107			5.882	(19+)	107
194PB 108			5.908	(21-)	108
194PB 109			5.934		109
194PB 110			5.942		110

194PB 111			5.996		111
194PB 112			6.021	(21-)	112 0.146 PS 14
194PB 113			6.132	(21+)	113
194PB 114			6.155	(16+)	114
194PB 115			6.203		115
194PB 116			6.220		116
194PB 117			6.245	(20+)	117
194PB 118			6.264		118
194PB 119			6.265		119
194PB 120			6.291	(20+)	120

194PB 121			6.369		121
194PB 122			6.374		122
194PB 123			6.396	(22-)	123 0.125 PS +35-28
194PB 124			6.426		124
194PB 125			6.489		125
194PB 126			6.506	(21+)	126

194PB 127			6.529	(22+)	127	
194PB 128			6.535	(18+)	128	0.5 PS GT
194PB 129			6.561		129	
194PB 130			6.630		130	

194PB 131			6.639	(21+)	131	
194PB 132			6.718	(22+)	132	
S-2p	=	6.775 (0.023)	-----			
194PB 133			6.813	(23-)	133	0.125 PS 28
194PB 134			6.906		134	
194PB 135			6.946	(23+)	135	
194PB 136			6.955	(20+)	136	0.24 PS +43-14
194PB 137			6.962		137	
194PB 138			6.990	(22+)	138	
194PB 139			7.160		139	
194PB 140			7.213	(24+)	140	

194PB 141			7.237	(24-)	141	
194PB 142			7.267		142	
194PB 143			7.306	(23+)	143	
194PB 144			7.307		144	
194PB 145			7.414	(22+)	145	0.14 PS +10-7
194PB 146			7.520	(25+)	146	
194PB 147			7.611	(24)	147	
194PB 148			7.679	(25-)	148	
194PB 149			7.881	(26+)	149	
194PB 150			7.908	(25)	150	

194PB 151			7.909	(24+)	151	0.13 PS 5
194PB 152			8.107	(26-)	152	
194PB 153			8.274	(27+)	153	
194PB 154			8.442	(26+)	154	0.08 PS 5
194PB 155			8.492	(27)	155	
194PB 156			8.695	(28)	156	
194PB 157			9.010	(28+)	157	0.07 PS 2
194PB 158			9.136	(29)	158	
194PB 159			9.598	(30)	159	
194PB 160			9.614	(30+)	160	

194PB 161			10.082	(31)	161	
S-n	=	10.085 (0.053)	-----			
194PB 162			10.252	(32+)	162	
194PB 163			10.587	(32)	163	
194PB 164			10.924	(34+)	164	
194PB 165			11.112	(33)	165	
194PB 166			11.630	(36+)	166	
194PB 167			12.370	(38+)	167	
194PB 168			X		168	
194PB 169			201.9+X		169	
194PB 170			451.0+X		170	

194PB 171		727.3+X	171
194PB 172		1044.8+X	172
194PB 173		1407.9+X	173
194PB 174		1792.6+X	174
194PB 175		2205.1+X	175
194PB 176		Y	176
194PB 177		328.6+Y	177
194PB 178		692.1+Y	178
194PB 179		1064.9+Y	179
194PB 180		1461.5+Y	180

194PB 181		1849.3+Y	181
194PB 182		Z	182
194PB 183		241.2+Z	183
194PB 184		521.8+Z	184
194PB 185		842.5+Z	185
194PB 186		1202.5+Z	186
194PB 187		1601.5+Z	187
194PB 188		2038.3+Z	188
194PB 189		2512.3+Z	189
194PB 190		3023.4+Z	190

194PB 191		3567.2+Z	191
194PB 192		U	192
194PB 193		260.9+U	193
194PB 194		562.9+U	194
194PB 195		904.2+U	195
194PB 196		1284.2+U	196
194PB 197		1701.5+U	197
194PB 198		2157.3+U	198
194PB 199		2649.4+U	199
194PB 200		3178.0+U	200

194PB 201		3741.2+U	201

S-p = 4.020 (0.019)-----
S-n = 10.085 (0.053)-----
S-2p = 6.775 (0.023)-----
S-2n = 17.795 (0.022)-----
S-alpha= -4.738 (0.024)-----

S+p = -1.107 (0.018)
S+n = -7.571 (0.025)
S+2p = -3.843 (0.022)
S+2n = -17.283 (0.019)
S+alpha = 6.310 (0.025)

gap p = 2.913 (0.026)

gap n = 2.514 (0.058)
gap 2p = 2.932 (0.032)
gap 2n = 0.512 (0.029)
gap alpha = 1.572 (0.034)