

^{207}Pb $Z = 82$ $N = 125$ adopted link ENSDF link

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

BE = 1629.062 (0.001) MeV

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

S-alpha=	-0.392	(0.002)	-----		
207PB 1			0.000	1/2-	1 STABLE
207PB 2			0.570	5/2-	2 130.5 PS 8
207PB 3			0.898	3/2-	3 0.115 PS 15
207PB 4	1.633	13/2+			4 0.806 S 5
207PB 5			2.340	7/2-	5
207PB 6	2.624	5/2+			6 0.09 PS 4
207PB 7	2.662	7/2+			7 0.66 PS 11
207PB 8				2.702 7/2+,9/2+	8
207PB 9	2.728	9/2+			9
207PB 10				2.902	10

207PB 11				2.909	11
207PB 12				3.004	12
207PB 13				3.057	13
207PB 14				3.176 9/2(+)	14 402 FS GT
207PB 15				3.181 1/2,3/2	15 37 FS +10-8
207PB 16				3.203 5/2	16 20 FS +6-5
207PB 17				3.218 7/2	17 39 FS +14-10
207PB 18	3.226	11/2+			18 333 FS GT
207PB 19				3.267	19
207PB 20	3.303	1/2+			20 9.9 FS 5

207PB 21				3.335	21
207PB 22				3.344	22
207PB 23	3.385	9/2+			23 284 FS GT
207PB 24				3.414 3/2,5/2,7/2	24 38 FS +19-12
207PB 25			3.415 9/2-		25 0.16 PS +58-8
207PB 26				3.430 (9/2+)	26 437 FS GT
207PB 27				3.450	27
207PB 28				3.476 9/2(+)	28 388 FS GT
207PB 29	3.510	11/2+			29 208 FS GT
207PB 30				3.524 5/2,7/2	30 0.16 PS +17-6

207PB 31				3.582 1/2+,3/2,5/2	31 10 FS 3
207PB 32				3.584 9/2(+)	32 0.11 PS +8-3
207PB 33				3.600	33
207PB 34	3.620	11/2+			34 243 FS GT
207PB 35				3.634 3/2+,5/2+	35 0.10 PS +6-3
207PB 36				3.650 9/2-,11/2-	36 312 FS GT
207PB 37				3.674 9/2,11/2	37 263 FS GT

207PB 38						3.682				38		
207PB 39						3.711	(7/2+)			39	118 FS	GT
207PB 40						3.726	(5/2+,7/2+)			40	201 FS	GT

207PB 41						3.776				41		
207PB 42						3.803				42		
207PB 43						3.829	9/2+,11/2+			43	111 FS	GT
207PB 44						3.857	13/2,15/2,17/2			44		
207PB 45						3.869	9/2+,11/2+,13/2+			45	104 FS	GT
207PB 46						3.877	(3/2+,5/2+)			46		
207PB 47						3.888	(1/2,3/2,5/2)			47		
207PB 48						3.888	(9/2,11/2)			48	0.12 PS	+20-6
207PB 49						3.901	13/2,15/2,17/2			49		
207PB 50						3.903	(13/2+)			50	17 FS	GT

207PB 51				3.929	3/2-					51	1.01 FS	6
207PB 52						3.986				52		
207PB 53						4.000	(5/2+)			53	0.08 PS	+8-3
207PB 54						4.017				54		
207PB 55						4.034	(5/2+,7/2+)			55		
207PB 56						4.064	(9/2+,11/2+,13/2)			56+	37 FS	GT
207PB 57						4.088	3/2-,5/2-			57		
207PB 58				4.104	3/2-					58	0.27 FS	2
207PB 59						4.116	(1/2,3/2,5/2)			59		
207PB 60						4.118	(15/2-)			60		

207PB 61						4.128				61		
207PB 62						4.141	(5/2)-			62	0.98 FS	8
207PB 63						4.192	(11/2+)			63		
207PB 64						4.213	(11/2)+			64		
207PB 65						4.232				65		
207PB 66						4.250				66		
207PB 67						4.270	(11/2-,13/2-)			67		
207PB 68						4.287	7/2-,9/2-			68		
207PB 69						4.313	7/2-,9/2-			69		
207PB 70		4.319	5/2+							70		

207PB 71						4.342	(5/2+,7/2+)			71		
207PB 72						4.364	(11/2)-			72		
207PB 73		4.389	5/2+							73		
207PB 74				4.404	13/2-					74		
207PB 75						4.422	(3/2-,5/2-)			75		
207PB 76						4.465				76		
207PB 77						4.479				77		
207PB 78						4.494	(15/2-,17/2-)			78		
207PB 79						4.515	3/2+,5/2+			79		
207PB 80						4.527	(5/2)-			80		

207PB 81		4.539	1/2+							81		
207PB 82						4.558	(7/2)-			82		

207PB 83	4.582	5/2+				83
207PB 84				4.592		84
207PB 85				4.612	(3/2,5/2)	85
207PB 86	4.627	1/2+				86 0.71 FS 8
207PB 87				4.630	(15/2)-	87
207PB 88				4.641		88
207PB 89				4.670	3/2-,5/2-	89
207PB 90				4.671	(17/2)-	90

207PB 91				4.697		91
207PB 92				4.712		92
207PB 93				4.733		93
207PB 94				4.745	(19/2)-	94
207PB 95				4.761	(11/2+,13/2+)	95
207PB 96				4.765	(5/2-,7/2-)	96
207PB 97				4.785	GE13/2	97
207PB 98				4.806		98
207PB 99				4.833	3/2+,5/2+	99
207PB 100				4.870	(7/2+)	100

207PB 101				4.872	(1/2,3/2)	101
207PB 102				4.884	19/2-,21/2-	102
207PB 103				4.921		103
207PB 104				4.943		104
207PB 105				4.957	19/2-,21/2-	105
207PB 106				4.975		106
207PB 107	4.981	1/2+				107 0.099 FS 13
207PB 108				4.987	5/2+,7/2+	108
207PB 109				5.018	(17/2+,19/2+)	109
207PB 110				5.039		110

207PB 111				5.053	(7/2+)	111
207PB 112				5.072	(3/2+)	112
207PB 113				5.080	(3/2)+	113
207PB 114				5.081	(5/2+,7/2+)	114
207PB 115				5.117		115
207PB 116				5.129	(3/2)+	116
207PB 117				5.130	(7/2+,9/2+)	117
207PB 118				5.156	(5/2+,7/2+)	118
207PB 119	5.180	7/2+				119
207PB 120				5.193		120

207PB 121				5.205	(5/2+,7/2+)	121
207PB 122				5.217	19/2-,21/2-	122
207PB 123	5.218	3/2+				123
207PB 124				5.247	5/2+,7/2+	124
207PB 125				5.267	(7/2)+	125
207PB 126				5.290	3/2+,5/2+	126
207PB 127				5.310	(7/2+)	127
207PB 128				5.321	(7/2)+	128

207PB 129				5.337	5/2+,7/2+	129		
207PB 130				5.352	5/2+,7/2+	130		

207PB 131				5.369		131		
207PB 132				5.383	(9/2-,11/2-)	132		
207PB 133				5.402	(9/2)-	133		
207PB 134				5.429	(7/2)+	134		
207PB 135				5.440	5/2+,7/2+	135		
207PB 136				5.447		136		
207PB 137				5.454		137		
207PB 138				5.474	(5/2-,7/2-)	138		
207PB 139	5.490	3/2+				139	0.064 FS	16
207PB 140				5.502	7/2-,9/2-	140		

207PB 141				5.514		141		
207PB 142				5.526	(13/2+,15/2+)	142		
207PB 143				5.537		143		
207PB 144				5.548		144		
207PB 145				5.573	(5/2)+	145		
207PB 146				5.584		146		
207PB 147				5.597	1/2(+)	147	0.038 FS	4
207PB 148				5.611	(3/2+)	148	0.17 FS	3
207PB 149				5.614	(7/2+)	149		
207PB 150				5.620	(9/2)-	150		

207PB 151				5.648		151		
207PB 152				5.668		152		
207PB 153				5.690	(3/2+)	153		
207PB 154				5.702		154		
207PB 155				5.716	(1/2,3/2)	155		
207PB 156				5.734	(1/2,3/2)	156		
207PB 157				5.765		157		
207PB 158				5.794	(1/2,3/2)	158		
207PB 159				5.803		159		
207PB 160				5.825		160		

207PB 161				5.840		161		
207PB 162				5.868		162		
207PB 163				5.897		163		
207PB 164				5.915		164		
207PB 165				5.934		165		
207PB 166				5.952		166		
207PB 167				5.959		167		
207PB 168				5.998	(13/2)+	168		
207PB 169				6.010		169		
207PB 170				6.031		170		

207PB 171				6.041		171		
207PB 172				6.064		172		
207PB 173				6.073		173		

207PB 174				6.090		174
207PB 175				6.107	(5/2+, 7/2+)	175
207PB 176				6.146	(1/2+, 3/2+)	176
207PB 177				6.170	(13/2+, 15/2+)	177
207PB 178				6.181	1/2, 3/2	178
207PB 179				6.188	(13/2+, 15/2+)	179
207PB 180				6.214	(1/2, 3/2, 5/2)	180

207PB 181				6.228		181
207PB 182				6.251		182
207PB 183				6.262		183
207PB 184				6.276	(5/2+, 7/2+)	184
207PB 185				6.310		185
207PB 186				6.332		186
207PB 187				6.360	(5/2-, 7/2-)	187
207PB 188				6.381	(5/2-, 7/2-)	188
207PB 189				6.402		189
207PB 190				6.449	(23/2+, 25/2+)	190

207PB 191				6.483	23/2+, 25/2+	191
207PB 192				6.542	(1/2, 3/2)	192
207PB 193				6.627	27/2+, 29/2+	193
207PB 194				6.654		194
207PB 195				6.670	27/2+, 29/2+	195
207PB 196				6.716		196
207PB 197				6.735	(1/2, 3/2)	197

S-n	=	6.738	(0.002)	-----		
207PB 198				6.749	(1/2, 3/2)	198
207PB 199				6.762		199
207PB 200				6.788		200

207PB 201				6.818	(1/2, 3/2)	201
207PB 202				6.826		202
207PB 203				6.864		203
207PB 204				6.912		204
207PB 205				6.939		205
207PB 206				6.955		206
207PB 207				7.010	9/2-, 11/2-	207
207PB 208				7.048	23/2+, 25/2+	208
207PB 209				7.096	23/2+, 25/2+	209
207PB 210				7.165		210

207PB 211				7.283		211
207PB 212				7.306	(1/2, 3/2)	212

S-p	=	7.488	(0.002)	-----		
207PB 213				7.590	9/2-, 11/2-	213
207PB 214		7.730	1/2+			214
207PB 215				7.960	9/2-, 11/2-	215
207PB 216			8.000	7/2-		216
207PB 217		8.030	3/2+			217

207PB 218				8.220	9/2-,11/2-	218
207PB 219				8.540	9/2-,11/2-	219
207PB 220				9.220	9/2-,11/2-	220

207PB 221		9.430				221
207PB 222				9.600	(9/2-,11/2-)	222

S-p = 7.488 (0.002)-----
S-n = 6.738 (0.002)-----
S-2p = 14.742 (0.004)-----
S-2n = 14.824 (0.002)-----
S-alpha= -0.392 (0.002)-----

S+p = -3.707 (0.003)
S+n = -7.368 (0.002)
S+2p = -8.492 (0.002)
S+2n = -11.305 (0.002)
S+alpha = 7.594 (0.002)

gap p = 3.780 (0.003)
gap n = -0.630 (0.002)
gap 2p = 6.250 (0.004)
gap 2n = 3.519 (0.003)
gap alpha = 7.202 (0.003)