

^{196}Pb $Z = 82$ $N = 114$ adopted link ENSDF link

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

BE = 1543.174 (0.008) MeV

Qbeta+ = 2.148 (0.014) MeV

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

S-alpha=	-4.238	(0.017)	-----					
196PB 1	0.000	0+						1 37 M 3
196PB 2	1.049	2+						2 100 NS LT
196PB 3	1.143	0+						3
196PB 4	1.450	2+						4
196PB 5	1.698	0+						5
196PB 6	1.738	4+						6 1 US LT
196PB 7				1.798	5-			7 140 NS 14
196PB 8						1.826	3+,4+	8
196PB 9						1.862	(4+)	9
196PB 10	1.896	2+						10

196PB 11						1.992	2-,3-	11
196PB 12						2.060	(1-,2+)	12
196PB 13						2.124	(1-,2,3)	13
196PB 14				2.169	7-			14 5 NS LT
196PB 15	2.203	4+						15
196PB 16				2.308	9-			16 52 NS 5
196PB 17						2.334	(8-)	17
196PB 18						2.376	(5+),(6)+	18
196PB 19						2.424	(6+)	19
196PB 20						2.471	(3,4,5-)	20

196PB 21				2.591	8-			21
196PB 22						2.622	(8+)	22 50 NS 15
196PB 23						2.630	(8+)	23
196PB 24	2.645	10+						24 2 NS LT
196PB 25	2.695	12+						25 270 NS 4
196PB 26				3.038	9-			26
196PB 27	3.042	4+						27
196PB 28				3.043	9-			28
196PB 29				3.087	9-			29
196PB 30				3.193	11-			30 72 NS 4

196PB 31				3.281	10-			31
196PB 32				3.338	11-			32
196PB 33				3.394	10-			33
196PB 34	3.461	12+						34
196PB 35				3.509	11-			35
196PB 36	3.654	14+						36

196PB 37				3.669	10-				37
196PB 38				3.739	12-				38
196PB 39				3.829	12-				39
196PB 40							3.863		40

196PB 41				3.886	11-				41
196PB 42		3.918	14+						42
196PB 43				4.028	11-				43
196PB 44				4.032	13-				44
196PB 45				4.047	13-				45
196PB 46				4.068	12-				46
196PB 47				4.122	15-				47
196PB 48		4.219	16+						48
196PB 49				4.280	11-				49
196PB 50		4.333	16+						50

196PB 51				4.385	12-				51
196PB 52				4.385	14-				52
196PB 53				4.430	14-				53
196PB 54				4.480	16-				54
S-p =	4.482	(0.014)	-----						
196PB 55							4.543	(12-)	55
196PB 56				4.550	12-				56
196PB 57							4.551		57
196PB 58				4.561	15-				58
196PB 59							4.582	(13-)	59
196PB 60				4.582	14-				60

196PB 61				4.586	13-				61
196PB 62		4.589	12+						62
196PB 63				4.625	13-				63
196PB 64				4.648	16-				64
196PB 65				4.653	15-				65
196PB 66		4.658	14+						66
196PB 67				4.677	17-				67
196PB 68				4.696	15-				68
196PB 69				4.724	17-				69
196PB 70		4.748	15+						70

196PB 71							4.804	(18-)	71
196PB 72		4.818	16+						72
196PB 73				4.844	16-				73
196PB 74		4.850	16+						74
196PB 75		4.853	16+						75
196PB 76				4.864	16-				76
196PB 77				4.899	15-				77
196PB 78		4.964	18+						78
196PB 79				4.972	17-				79
196PB 80				4.986	15-				80

196PB 81		4.996	17+				81
196PB 82		5.036	17+				82
196PB 83					5.155	16-	83
196PB 84					5.166	18-	84
196PB 85					5.173	16-	85
196PB 86		5.188	18+				86 0.89 PS 15
196PB 87					5.212	17-	87
196PB 88					5.236	17-	88
196PB 89					5.255	19-	89
196PB 90					5.265	16-	90

196PB 91		5.284	18+				91
196PB 92					5.330	16-	92
196PB 93					5.343	18-	93
196PB 94					5.351	19-	94
196PB 95					5.381	17-	95
196PB 96					5.481	19-	96
196PB 97		5.493	20+				97
196PB 98		5.503	19+				98 0.67 PS 14
196PB 99					5.559	18-	99
196PB 100					5.576	17-	100

196PB 101		5.577	19+				101
196PB 102					5.608	19-	102
196PB 103					5.658	18-	103
196PB 104					5.685	20-	104
196PB 105					5.706	19-	105
196PB 106		5.709	20+				106
196PB 107					5.728	19-	107
196PB 108					5.786	19-	108
196PB 109		5.859	6+				109
196PB 110					5.870	19-	110

196PB 111		5.878	20+				111 0.93 PS 35
196PB 112					5.886	18-	112
196PB 113					5.896	19-	113
196PB 114		5.928	20+				114
196PB 115		5.934	20+				115
196PB 116					5.952	21-	116
196PB 117					5.976	21-	117
196PB 118					6.026	21-	118
196PB 119		6.030	8+				119
196PB 120					6.041	19-	120

196PB 121		6.051	21+				121
196PB 122		6.075	20+				122
196PB 123					6.160	20-	123
196PB 124					6.185	20-	124
196PB 125					6.196	20-	125
196PB 126		6.233	21+				126

196PB 127	6.246	10+						127
196PB 128			6.284	22-				128
196PB 129	6.294	21+						129
196PB 130	6.334	22+						130

196PB 131			6.349	21-				131
196PB 132	6.361	22+						132
196PB 133			6.369	21-				133
196PB 134			6.379	21-				134
196PB 135	6.458	22+						135
196PB 136			6.499	21-				136
196PB 137	6.505	12+						137
196PB 138	6.516	22+						138
196PB 139	6.534	21+						139
196PB 140			6.557	22-				140

196PB 141	6.574	22+						141
196PB 142	6.581	21+						142
196PB 143			6.602	22-				143
196PB 144	6.615	23+						144
196PB 145			6.646	20-				145
196PB 146			6.651	23-				146
196PB 147	6.658	23+						147
196PB 148	6.690	22+						148
196PB 149	6.693	24+						149
196PB 150			6.725	23-				150

196PB 151	6.780	22+						151
196PB 152			6.808	23-				152
196PB 153	6.808	14+						153
196PB 154	6.818	23+						154
196PB 155					6.846	(8-)		155
196PB 156			6.858	22-				156
196PB 157					6.866			157
196PB 158			6.881	23-				158
196PB 159					6.945	(9-)		159
196PB 160	7.028	24+						160

196PB 161	7.042	23+						161
196PB 162			7.043	24-				162 0.146 PS +10-8
196PB 163					7.051	(10-)		163
196PB 164	7.075	23+						164
196PB 165			7.117	24-				165
196PB 166	7.154	16+						166
196PB 167			7.172	23-				167
196PB 168					7.172	(11-)		168
196PB 169	7.175	24+						169
196PB 170			7.212	24-				170

196PB 171			7.213	23-				171

196PB 172				7.246	23-				172
196PB 173							7.255		173
196PB 174		7.267	25+						174
196PB 175							7.299	(12-)	175
196PB 176				7.302	22-				176
196PB 177		7.337	24+						177
196PB 178							7.440	(13-)	178
196PB 179				7.441	25-				179 0.12 PS +8-6
196PB 180		7.465	24+						180

196PB 181				7.492	25-				181
196PB 182				7.508	22-				182
196PB 183		7.542	18+						183 0.46 PS 8
196PB 184		7.553	26+						184 0.132 PS +21-28
196PB 185				7.564	25-				185
196PB 186				7.565	24-				186
196PB 187							7.588	(14-)	187
196PB 188		7.588	25+						188
196PB 189				7.593	24-				189
196PB 190		7.635	25+						190

S-2p	=	7.742 (0.008)-----							
196PB 191							7.749	(15-)	191
196PB 192		7.826	25+						192
196PB 193				7.849	26-				193 0.27 PS 8
196PB 194		7.892	27+						194 0.118 PS +21-28
196PB 195				7.896	26-				195
196PB 196		7.912	26+						196
196PB 197							7.918	(16-)	197
196PB 198				7.940	26-				198
196PB 199				7.941	26-				199
196PB 200		7.970	20+						200 0.23 PS 4

196PB 201		7.978	26+						201 0.118 PS 21
196PB 202		8.026	26+						202
196PB 203							8.099	(17-)	203
196PB 204							8.144	(17-)	204
196PB 205		8.167	26+						205
196PB 206		8.201	27+						206 0.159 PS 28
196PB 207				8.223	27-				207
196PB 208				8.271	27-				208
196PB 209							8.287	(18-)	209
196PB 210		8.290	28+						210 0.090 PS +21-14

196PB 211		8.357	27+						211 0.104 PS +21-14
196PB 212				8.383	27-				212
196PB 213				8.384	27-				213
196PB 214		8.440	22+						214 0.152 PS 28
196PB 215							8.487	(19-)	215
196PB 216		8.517	27+						216

S+2n = -16.862 (0.012)
S+alpha = 5.982 (0.011)

gap p = 2.854 (0.018)
gap n = 2.213 (0.013)
gap 2p = 3.039 (0.021)
gap 2n = 0.421 (0.022)
gap alpha = 1.743 (0.020)