^{204}Pb $Z = 82$ $N = 122$ link to full NNDC output

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

BE = 1607.506 (0.001) MeV

	Energy	T	J+		J-		J-other		T1/2	
S-alpha= -1.969 (0.001)										
204PB 1	0.000		0+					1	1.4E+17	Y GE
204PB 2	0.899		2+					2	2.88	PS 3
204PB 3	1.274		4+					3	265	NS 6
204PB 4	1.351		2+					4		
204PB 5	1.563		4+					5		
204PB 6	1.583		0+					6	65	PS 20
204PB 7	1.583		2+					7		
204PB 8	1.605		3+					8		
204PB 9	1.665		2+					9		
204PB 10						1.681	1(+)	10		
204PB 11						1.712	(3+)	11		
204PB 12	1.730		0+					12	20	PS LT
204PB 13	1.761		2+					13		
204PB 14	1.818		4+					14		
204PB 15						1.872	1	15		
204PB 16						1.933	1	16		
204PB 17	1.948		3+					17		
204PB 18						1.960	(2)+	18		
204PB 19	2.065		5+					19		
204PB 20	2.105		2+					20		
204PB 21						2.158	(4+)	21		
204PB 22				2.186	9-			22	66.93	M 10
204PB 23						2.202	(2,3,4+)	23		
204PB 24						2.238	5,6	24		
204PB 25				2.258	5-			25		
204PB 26				2.264	7-			26	0.45	US +10-3
204PB 27						2.269	1,2+	27		
204PB 28	2.304		3+					28		
204PB 29						2.312	1	29		
204PB 30	2.316		2+					30		
204PB 31						2.338	(4)-	31		
204PB 32	2.386		5+					32		
204PB 33						2.400	1+,2+,3+	33		
204PB 34				2.405	7-			34		
204PB 35						2.409	3	35		
204PB 36	2.433		0+					36		
204PB 37				2.434	6-			37		

204PB	38			2.475	1,2,3,4+	38
204PB	39			2.480	6-	39
204PB	40	2.491	3+			40
204PB	41			2.507	5-	41
204PB	42			2.514	(4)	42
204PB	43			2.525	(1,2,3)	43
204PB	44			2.547		44
204PB	45			2.550	2+,3	45
204PB	46			2.592	1,2,3	46
204PB	47			2.621	3-	47
204PB	48			2.627	(5+)	48
204PB	49			2.655	1,2+,3	49
204PB	50	2.666	2+			50
204PB	51			2.697	7-	51
204PB	52	2.719	5+			52
204PB	53			2.732	5-,6-,7-	53
204PB	54			2.732	1,2,3	54
204PB	55			2.767	(2+,3,4)	55
204PB	56	2.808	6+			56
204PB	57			2.829		57
204PB	58			2.862	(5-,6,7)	58
204PB	59			2.887	2,3	59
204PB	60			2.890	(5-,6-)	60
204PB	61	2.897	4+			61
204PB	62			2.913	5-	62
204PB	63			2.920	5-	63
204PB	64			2.928	(5,6,7)-	64
204PB	65			2.929	5-	65
204PB	66			2.942	(4-,5-,6-)	66
204PB	67			2.946	10-	67
204PB	68			3.023	(5,6)-	68
204PB	69			3.029	5-	69
204PB	70			3.050		70
204PB	71			3.092	5-	71
204PB	72			3.105	6-	72
204PB	73			3.147	(2)+	73
204PB	74			3.170	5-	74
204PB	75			3.192	11-	75
204PB	76			3.199	5-,6,7-	76
204PB	77	3.215	5+			77
204PB	78			3.226	(2)+	78
204PB	79			3.232	5-	79
204PB	80			3.302	5-	80
204PB	81			3.377	1	81
204PB	82			3.398	6-	82

204PB	83					3.420	(3)-	83	
204PB	84					3.425	5-,6-	84	
204PB	85					3.450	(10)+	85	
204PB	86	3.516	12+					86	
204PB	87					3.570		87	
204PB	88			3.638	6-			88	
204PB	89					3.656	1	89	
204PB	90					3.719		90	
204PB	91					3.733	6-,7-	91	
204PB	92					3.769	5-,6-	92	
204PB	93			3.782	5-			93	
204PB	94					3.810	(2)+	94	
204PB	95					3.843	(5,6+)	95	
204PB	96					3.877	(5-,6+)	96	
204PB	97					3.892	5-,6-	97	
204PB	98	3.893	2+					98	17 FS 3
204PB	99					3.949	(6)+	99	
204PB	100					3.996	(5,6+)	100	
204PB	101					3.998	(5,6,7)-	101	
204PB	102					4.033	(5,6+)	102	
204PB	103					4.039	(5,6+)	103	
204PB	104					4.068	(5-,6+)	104	
204PB	105					4.076	(5)-	105	
204PB	106					4.081	(5,6+)	106	
204PB	107			4.094	6-			107	
204PB	108					4.111	(5)-	108	
204PB	109			4.115	6-			109	
204PB	110					4.130	(5,6)	110	
204PB	111	4.135	14+					111	
204PB	112					4.140		112	
204PB	113			4.166	5-			113	
204PB	114					4.172	(5,6+)	114	
204PB	115			4.184	6-			115	
204PB	116					4.190		116	
204PB	117					4.230	(5,6)	117	
204PB	118					4.244	(5,6+)	118	
204PB	119					4.250	(5,6+)	119	
204PB	120			4.286	6-			120	
204PB	121					4.290		121	
204PB	122	4.302	15+					122	
204PB	123					4.340		123	
204PB	124	4.379	2+					124	4.0 FS 4
204PB	125					4.460		125	
204PB	126					4.530		126	
204PB	127					4.596	1	127	
204PB	128					4.620		128	

204PB 129				4.650		129
204PB 130				4.853	(11)-	130
204PB 131	4.888	16+				131
204PB 132				4.922	1	132
204PB 133				4.933	1	133
204PB 134				4.980	1	134
204PB 135				5.000	(6)+	135
204PB 136				5.012	1	136
204PB 137				5.100	(9)-	137
204PB 138				5.283	(1,2+)	138
204PB 139	5.349	16+				139
204PB 140				5.366	(1,2+)	140
204PB 141				5.399	1	141
204PB 142				5.520	(9)-	142
204PB 143				5.610	(1,2+)	143
204PB 144			5.665			144
204PB 145				5.675	(1,2+)	145
204PB 146				5.777	1	146
204PB 147				5.796	1	147
204PB 148				5.811	1	148
204PB 149				5.828	1	149
204PB 150				5.839	1	150
204PB 151				5.878	(1,2+)	151
204PB 152				5.891	(1,2+)	152
204PB 153				5.910	(9)-	153
204PB 154				5.944	(1,2+)	154
204PB 155				5.968	1	155
204PB 156				5.981	1	156
204PB 157				5.998	(1,2+)	157
204PB 158				6.009	1	158
204PB 159				6.020	1	159
204PB 160				6.054	1	160
204PB 161				6.067	1	161
204PB 162				6.073	17	162
204PB 163				6.074	1	163
204PB 164				6.084	(1,2+)	164
204PB 165			6.098			165
204PB 166				6.105	(1,2+)	166
204PB 167				6.148	1	167
204PB 168				6.161	(1,2+)	168
204PB 169				6.194	1	169
204PB 170				6.210	(1,2+)	170
204PB 171				6.229	(1,2+)	171
204PB 172				6.254	1	172
204PB 173				6.277	1	173

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204PB 174 |                |                |   6.323     1              174
204PB 175 |                |                |   6.411     1              175
204PB 176 |                |                |   6.420     (1,2+)         176
204PB 177 |                |                |   6.457     (1,2+)         177
204PB 178 |                |                |   6.469     (1,2+)         178
S-p    =   6.637 ( 0.002)-------------------------------------------------------------------
204PB 179 |                |                |   7.402     (20)           179
204PB 180 |                |                |   7.849     (21)           180
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204PB 181 |                |                |   8.126     (22)           181


S-p    =   6.637 ( 0.002)-------------------------------------------------------------------
S-n    =   8.395 ( 0.007)-------------------------------------------------------------------
S-2p   =  12.342 ( 0.001)-------------------------------------------------------------------
S-2n   =  15.312 ( 0.004)-------------------------------------------------------------------
S-alpha=  -1.969 ( 0.001)-------------------------------------------------------------------

S+p       =  -3.244 ( 0.005)
S+n       =  -6.732 ( 0.002)
S+2p      =  -7.657 ( 0.004)
S+2n      = -14.818 ( 0.002)
S+alpha   =   5.215 ( 0.002)

gap p     =   3.394 ( 0.006)
gap n     =   1.663 ( 0.007)
gap 2p    =   4.686 ( 0.004)
gap 2n    =   0.494 ( 0.004)
gap alpha =   3.247 ( 0.002)
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