^{198}Pb $Z = 82$ $N = 116$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 1560.036 (0.009) MeV
Qbeta+ = 1.461 (0.012) MeV

	Energy	T	J+		J-		J-other		T1/2	
S-alpha= -3.692 (0.009)										
198PB 1	0.000		0+					1	2.4 H	1
198PB 2	1.064		2+					2		
198PB 3	1.392		(0+)					3		
198PB 4	1.626		4+					4		
198PB 5	1.735		(0+)					5		
198PB 6					1.824	(5)-		6	50.4 NS	5
198PB 7	1.981		(4+)					7		
198PB 8							1.996 (5)	8		
198PB 9							2.099 (4,5,6)	9		
198PB 10					2.141	(7)-		10	4.19 US	10
198PB 11							2.191 (6)	11		
198PB 12					2.231	(9)-		12	137 NS	10
198PB 13					2.258	(6-)		13		
198PB 14							2.342	14		
198PB 15							2.345	15		
198PB 16					2.369	(6-)		16		
198PB 17	2.569		(6+)					17		
198PB 18							2.603	18		
198PB 19							2.612	19		
198PB 20							2.695	20		
198PB 21							2.704	21		
198PB 22	2.772		(10)+					22		
198PB 23	2.822		(12)+					23	212 NS	4
198PB 24							3.033	24		
198PB 25							3.185	25		
198PB 26							3.269	26		
198PB 27					3.489	11-		27		
198PB 28							3.565	28		
198PB 29							3.574 (12)	29		
198PB 30	3.751		14+					30		
198PB 31					3.810	12-		31		
198PB 32							3.966	32		
198PB 33							4.030	33		
198PB 34							4.032 (14)	34		
198PB 35					4.043	13-		35		

```
198PB  36 |  4.191     (16+)  |                  |                  36
198PB  37 |                   |                  |   4.236          37
198PB  38 |                   |   4.380     15-  |                  38
198PB  39 |  4.512     16+    |                  |                  39
198PB  40 |                   |   4.573     14-  |                  40  2.8 PS    GT
----------                                                         ----------------
198PB  41 |                   |                  |   4.701 (17)     41
198PB  42 |  4.702     (16+)  |                  |                  42  5.5 PS    GT
198PB  43 |                   |   4.774     (17-)|                  43
198PB  44 |  4.776     (14+)  |                  |                  44
198PB  45 |                   |                  |   4.818          45
198PB  46 |                   |   4.837     15-  |                  46  2.8 PS    GT
198PB  47 |                   |                  |   4.843          47
198PB  48 |  4.879     (15+)  |                  |                  48
198PB  49 |  4.883     (14+)  |                  |                  49
198PB  50 |  4.896     (19+)  |                  |                  50  6.4 NS
----------                                                         ----------------
198PB  51 |  4.977     (15+)  |                  |                  51
S-p    =   5.002 ( 0.016) ------------------------------------------------------------
198PB  52 |  5.004     (16+)  |                  |                  52
198PB  53 |                   |                  |   5.016          53
198PB  54 |                   |                  |   5.019          54
198PB  55 |                   |   5.066     17-  |                  55
198PB  56 |  5.072     18+    |                  |                  56
198PB  57 |  5.093     (16+)  |                  |                  57
198PB  58 |  5.203     (17+)  |                  |                  58
198PB  59 |  5.209     18+    |                  |                  59
198PB  60 |  5.250     (17+)  |                  |                  60
----------                                                         ----------------
198PB  61 |                   |                  |   5.304 (16)     61
198PB  62 |                   |   5.379     (16-)|                  62
198PB  63 |                   |   5.452     19-  |                  63
198PB  64 |  5.468     (18+)  |                  |                  64
198PB  65 |  5.478     (18+)  |                  |                  65  3.2 PS    10
198PB  66 |                   |   5.493     17-  |                  66
198PB  67 |                   |                  |   5.524 (17)     67
198PB  68 |                   |   5.544     19-  |                  68
198PB  69 |                   |   5.648     18-  |                  69  0.44 PS   7
198PB  70 |  5.779     (19+)  |                  |                  70
----------                                                         ----------------
198PB  71 |  5.814     (19+)  |                  |                  71
198PB  72 |                   |                  |   5.822 (18)     72
198PB  73 |                   |                  |   5.843 (21)     73
198PB  74 |                   |   5.863     19-  |                  74  0.49 PS   +7-14
198PB  75 |  5.871     20+    |                  |                  75
198PB  76 |                   |                  |   6.041          76
198PB  77 |                   |   6.047     21-  |                  77
198PB  78 |                   |                  |   6.120 (19)     78
198PB  79 |                   |   6.126     21-  |                  79
198PB  80 |                   |   6.142     20-  |                  80  0.24 PS   +10-7
```

198PB	81			6.152	(17-)		81		
198PB	82	6.167	(20+)				82		
198PB	83	6.242	(20+)				83	2.4 PS	10
198PB	84			6.393	(18-)		84		
198PB	85					6.425 (20)	85		
198PB	86			6.484	21-		86	0.14 PS	+14-7
198PB	87	6.501	22+				87		
198PB	88			6.515	(19-)		88		
198PB	89			6.519	(20-)		89		
198PB	90	6.555	(21+)				90		
198PB	91			6.660	23-		91		
198PB	92	6.661	(21+)				92		
198PB	93			6.674	(20-)		93		
198PB	94	6.691	(21+)				94		
198PB	95					6.719	95		
198PB	96					6.730	96		
198PB	97			6.735	(21-)		97		
198PB	98	6.867	(22+)				98		
198PB	99			6.873	22-		99	0.17 PS	3
198PB	100			6.873	23-		100		
198PB	101			6.878	(21-)		101		
198PB	102	6.942	(22+)				102		
198PB	103	6.997	(22+)				103		
198PB	104			7.017	(22-)		104		
198PB	105	7.074	(23+)				105	1.46 PS	28
198PB	106	7.079	(22+)				106		
198PB	107			7.143	(22-)		107		
198PB	108			7.295	23-		108	0.12 PS	+12-3
198PB	109	7.312	(24+)				109	0.59 PS	21
198PB	110	7.334	(23+)				110		
198PB	111			7.361	(23-)		111		
198PB	112	7.456	(23+)				112		
198PB	113			7.480	(23-)		113		
198PB	114	7.555	(24+)				114		
198PB	115	7.591	(25+)				115	0.80 PS	40
198PB	116			7.739	24-		116	0.14 PS	+6-4
198PB	117			7.748	25-		117		
198PB	118			7.758	25-		118		
198PB	119			7.780	(24-)		119		
198PB	120	7.795	(25+)				120		
198PB	121			7.835	(24-)		121		
198PB	122	7.917	(26+)				122	0.40 PS	10
198PB	123	8.076	(26+)				123		
198PB	124			8.211	25-		124	0.14 PS	4
198PB	125			8.243	(25-)		125		

```
198PB 126 |                  |   8.256     (25-)  |                 126
198PB 127 |                  |                    |   8.268         127
198PB 128 |  8.291     (27+) |                    |                 128  0.097 PS  +21-28
198PB 129 |  8.409     (27+) |                    |                 129
198PB 130 |                  |   8.686     26-    |                 130  0.19 PS   5
----------                                                          -----------------
198PB 131 |                  |   8.695     (26-)  |                 131
198PB 132 |  8.713     (28+) |                    |                 132  0.105 PS  +21-28
198PB 133 |                  |   8.740     (26-)  |                 133
198PB 134 |  8.800     (28+) |                    |                 134
S-2p   =   8.819 ( 0.009) ------------------------------------------------------------
198PB 135 |                  |   9.112     27-    |                 135
198PB 136 |                  |   9.146     (27-)  |                 136
198PB 137 |                  |   9.155     (27-)  |                 137
198PB 138 |  9.176     (29+) |                    |                 138  0.097 PS  +21-28
198PB 139 |  9.255     (29+) |                    |                 139
S-n    =   9.393 ( 0.010) ------------------------------------------------------------
198PB 140 |                  |   9.512     28-    |                 140
----------                                                          -----------------
198PB 141 |  9.682     (30+) |                    |                 141  0.14 PS   4
198PB 142 |  9.770     (30+) |                    |                 142
198PB 143 |                  |   9.931     29-    |                 143
198PB 144 | 10.231     (31+) |                    |                 144
198PB 145 | 10.329     (31+) |                    |                 145
198PB 146 |                  |  10.380     30-    |                 146
198PB 147 | 10.821     (32+) |                    |                 147
198PB 148 |                  |  10.869     31-    |                 148
198PB 149 | 10.921     (32+) |                    |                 149
198PB 150 |                  |  11.399     32-    |                 150
----------                                                          -----------------
198PB 151 | 11.439     (33+) |                    |                 151
198PB 152 |                  |  11.971     33-    |                 152
198PB 153 | 12.060     (34+) |                    |                 153
198PB 154 |                  |  12.580     34-    |                 154
198PB 155 | 12.700     (35+) |                    |                 155


S-p    =   5.002 ( 0.016) ------------------------------------------------------------
S-n    =   9.393 ( 0.010) ------------------------------------------------------------
S-2p   =   8.819 ( 0.009) ------------------------------------------------------------
S-2n   =  16.862 ( 0.012) ------------------------------------------------------------
S-alpha=  -3.692 ( 0.009) ------------------------------------------------------------

S+p       =  -2.019 ( 0.014)
S+n       =  -7.236 ( 0.011)
S+2p      =  -5.452 ( 0.012)
S+2n      = -16.326 ( 0.013)
S+alpha   =   5.701 ( 0.012)

gap p     =   2.983 ( 0.021)
```

```
gap n     =   2.158 ( 0.015)
gap 2p    =   3.367 ( 0.015)
gap 2n    =   0.536 ( 0.018)
gap alpha =   2.010 ( 0.015)
```