

^{202}Pb $Z = 82$ $N = 120$ [link to full NNDC output](#)

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

BE = 1592.194 (0.004) MeV

Qbeta+ = 0.040 (0.004) MeV

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

S-alpha=	-2.589	(0.004)			
202PB 1	0.000	0+			1 52.5E+3 Y 28
202PB 2	0.961	2+			2 0.1 NS LE
202PB 3	1.383	4+			3 1.97 NS 2
202PB 4				1.584 (2+)	4
202PB 5	1.623	4+			5
202PB 6	1.657	2+			6
202PB 7	1.658	0+			7 30 PS LT
202PB 8				1.798 (2)+	8
202PB 9				1.815	9
202PB 10	1.862	0+			10 30 PS LT

202PB 11	1.915	4+			11
202PB 12	1.965	4+			12
202PB 13			2.040	5-	13
202PB 14	2.159	0+			14 30 PS LT
202PB 15			2.170	9-	15 3.54 H 2
202PB 16	2.185	3+			16
202PB 17				2.202	17
202PB 18			2.208	7-	18 65.4 NS 2
202PB 19	2.235	6+			19
202PB 20			2.289	6-	20

202PB 21			2.307	7-	21
202PB 22				2.325 4+,5+	22
202PB 23				2.360 4-,5-,6-	23
202PB 24			2.387	5-	24
202PB 25	2.516	4+			25
202PB 26			2.517	3-	26
202PB 27			2.610	5-	27
202PB 28				2.619 4-,5-,6-	28
202PB 29	2.666	4+			29
202PB 30	2.750	6+			30

202PB 31			2.899	5-	31
202PB 32				2.917 4-,5-	32
202PB 33				2.968 (4,5)-	33
202PB 34			2.995	5-	34
202PB 35			3.058	11-	35
202PB 36				3.131	36

202PB 37		3.180	4+							37
202PB 38							3.191	(10+)		38
202PB 39		3.200	8+							39
202PB 40		3.238	12+							40 24.2 NS 3

202PB 41					3.286	4-				41
202PB 42							3.329	12		42
202PB 43							3.507	13		43
202PB 44							3.682	(4,5)-		44
202PB 45							3.724	4-,5-		45
202PB 46					3.821	5-				46
202PB 47		3.956	13+							47
202PB 48					4.000	7-				48
202PB 49							4.023	14		49
202PB 50							4.023	(12,13)		50

202PB 51							4.068	(12,13)		51
202PB 52		4.091	14+							52
202PB 53							4091.0+X			53 110 NS 5
202PB 54		4.171	14+							54
202PB 55							4322.8+X			55
202PB 56					4.400	11-				56
202PB 57							4445.4+X			57
202PB 58							4452.5+X			58
202PB 59					4.500	11-				59
202PB 60							4.513	(15)		60

202PB 61		4.600	6+							61
202PB 62							5.059	(16)		62
202PB 63							5059.0+Z			63
202PB 64							5189.0+Z			64
202PB 65					5.200	9-				65
202PB 66							5242.0+X			66
202PB 67							5242.0+Y			67
202PB 68							5251.0+X			68
202PB 69							5251.0+U			69 107 NS 3
202PB 70					5.300	9-				70

202PB 71							5380.7+Z			71
202PB 72							5403.3+Y			72
202PB 73							5453.5+U			73
202PB 74							5646.5+Y			74
202PB 75							5650.5+Z			75
202PB 76							5940.2+U			76
202PB 77							5979.4+Y			77
202PB 78							5999.9+Z			78
202PB 79							6091.6+U			79
202PB 80							6323.4+U			80

202PB 81							6387.0+Y			81

202PB 82			6416.3+Z	82
202PB 83			6799.7+U	83
202PB 84			6853.5+Y	84
202PB 85			6894.2+Z	85
202PB 86			7301.6+U	86
202PB 87			7371.2+Y	87
202PB 88			7405.9+U	88
202PB 89			7417.6+Z	89
202PB 90			7554.4+U	90

202PB 91			7708.5+U	91
202PB 92			8305.5+U	92
202PB 93			8361.1+U	93
202PB 94			8646.0+U	94
202PB 95			8786.6+U	95
202PB 96			9205.4+U	96

S-p	=	6.049 (0.015)	-----
S-n	=	8.741 (0.014)	-----
S-2p	=	11.015 (0.004)	-----
S-2n	=	15.832 (0.012)	-----
S-alpha	=	-2.589 (0.004)	-----

S+p	=	-2.873 (0.013)
S+n	=	-6.917 (0.008)
S+2p	=	-6.979 (0.012)
S+2n	=	-15.312 (0.004)
S+alpha	=	5.327 (0.005)

gap p	=	3.175 (0.020)
gap n	=	1.824 (0.016)
gap 2p	=	4.037 (0.012)
gap 2n	=	0.520 (0.012)
gap alpha	=	2.738 (0.007)