

$^{198}\text{Po}$        $Z = 84$        $N = 114$       [link to full NNDC output](#)

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

BE = 1547.877 ( 0.017) MeV

Qbeta+ = 3.896 ( 0.033) MeV

	Energy T	J+		J-		J-other		T1/2
-----								
S-alpha=	-6.310	( 0.025)	-----					
198PO 1	0.000	0+						1 1.760 M 24
198PO 2	0.605	2+						2
198PO 3	0.816	0+						3 0.4 NS LT
198PO 4	1.039	2+						4
198PO 5	1.158	4+						5
198PO 6	1.483	4+						6
198PO 7	1.718	6+						7
198PO 8			1.808	5-				8
198PO 9	1.854	8+						9 29 NS 2
198PO 10					1.875	(6+)		10
-----								
198PO 11			2.114	7-				11
198PO 12			2.288	8-				12
198PO 13			2.325	9-				13
198PO 14					2.345	(8+)		14
198PO 15			2.566	11-				15 200 NS 20
198PO 16					2.621	(8+)		16
198PO 17			2.641	9-				17
198PO 18	2.692	10+						18
198PO 19			2.813	10-				19
198PO 20			2.900	11-				20
-----								
198PO 21					2.964			21
198PO 22					3.010	(10+)		22
S-p =	3.075	( 0.019)	-----					
198PO 23					3.174	(11-)		23
198PO 24			3.309	12-				24
198PO 25			3.465	13-				25
198PO 26					3.646	(13-)		26
198PO 27					3.802			27
198PO 28			3.868	14-				28
198PO 29					4.052			29
198PO 30					4.086	(15-)		30
-----								
198PO 31					4.322	(16-)		31
198PO 32					4.521			32
198PO 33					4.596			33
198PO 34					2691.86+X			34 0.75 US 5
198PO 35					3149.81+X			35

198P0	36			3241.36+X	36
198P0	37			3444.4+X	37
198P0	38			3579.24+X	38
198P0	39			3782.95+X	39
198P0	40			3984.76+X	40
-----					
198P0	41			4010.62+X	41
198P0	42			4391.80+X	42
198P0	43			4407.65+X	43
198P0	44			4662.1+X	44
198P0	45			5113.2+X	45
198P0	46			Y	46
198P0	47			175.90+Y	47
198P0	48			396.43+Y	48
198P0	49			660.80+Y	49
198P0	50			968.2+Y	50
-----					
198P0	51			1317.7+Y	51
198P0	52			1708.3+Y	52
198P0	53			2138.1+Y	53
198P0	54			2606.0+Y	54
198P0	55			3111.9+Y	55
198P0	56			3654.5+Y	56

S-p = 3.075 ( 0.019)-----  
S-n = 10.187 ( 0.053)-----  
S-2p = 4.703 ( 0.019)-----  
S-2n = 18.143 ( 0.022)-----  
S-alpha= -6.310 ( 0.025)-----

S+p = -0.639 ( 0.018)  
S+n = -7.806 ( 0.025)  
S+2p = -3.109 ( 0.022)  
S+2n = -17.611 ( 0.019)  
S+alpha = 6.774 ( 0.025)

gap p = 2.436 ( 0.027)  
gap n = 2.380 ( 0.058)  
gap 2p = 1.594 ( 0.029)  
gap 2n = 0.532 ( 0.029)  
gap alpha = 0.464 ( 0.035)