

^{190}Pt $Z = 78$ $N = 112$ [link to full NNDC output](#)

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

BE = 1509.834 (0.001) MeV

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

S-alpha=	-3.269	(0.001)	-----		
190PT 1	0.000	0+			1 6.5E+11 Y 3
190PT 2	0.296	2+			2 62 PS 3
190PT 3	0.598	2+			3
190PT 4	0.737	4+			4
190PT 5	0.917	3+			5
190PT 6	0.921	0+			6
190PT 7				1.128 (4+)	7
190PT 8	1.203	2+			8
190PT 9	1.288	6+			9
190PT 10			1.353 3-		10

190PT 11				1.386 (2+,3,4+)	11
190PT 12	1.395	2+			12
190PT 13				1.450 (5+)	13
190PT 14			1.465 5-		14
190PT 15				1.543 (2+)	15
190PT 16	1.601	2+			16
190PT 17				1.602 1+,2+	17
190PT 18				1.626 (2+,3,4)	18
190PT 19				1.628 (2+,3,4)	19
190PT 20			1.631 7-		20 0.79 NS 5

190PT 21	1.670	0+			21
190PT 22				1.733 (6+)	22
190PT 23			1.737 1-		23
190PT 24				1.834 (6-)	24
190PT 25				1.842	25
190PT 26				1.877 1-,2-,3-	26
190PT 27	1.915	8+			27
190PT 28				2.044 (7,8,9-)	28
190PT 29			2.078 8-		29
190PT 30			2.223 9-		30

190PT 31				2.297 (10-)	31 48 NS 4
190PT 32				2.358 (2)+	32
190PT 33				2.383 (1)+	33
190PT 34	2.535	10+			34
190PT 35				2.571 (11-)	35
190PT 36	2.603	10+			36
190PT 37				2.683 (10-)	37

190PT	38				2.702	(10)+	38
190PT	39		2.727				39 1.39 NS 12
190PT	40				2.761	(11-)	40

190PT	41				2.821	(11+)	41
190PT	42				2.822	(12-)	42
190PT	43				2.981	1-	43
190PT	44				3.014	(2)-	44
190PT	45				3.025	(12-)	45
190PT	46				3.049	(2)-	46
190PT	47				3.067	(2,1)-	47
190PT	48				3.069	(14+)	48
190PT	49				3.112	(13-)	49
190PT	50				3.345	(13-)	50

190PT	51				3.415	(14+)	51
190PT	52				3.576	(16+)	52
190PT	53				3.666	(16+)	53
190PT	54				3.808	(16,17,18+)	54
190PT	55				4.083	(16,17,18+)	55
190PT	56				4.214	(18+)	56

S-p = 6.146 (0.013)-----
 S-n = 8.909 (0.010)-----
 S-2p = 10.747 (0.001)-----
 S-2n = 15.628 (0.005)-----
 S-alpha= -3.269 (0.001)-----

S+p = -3.780 (0.005)
 S+n = -6.463 (0.004)
 S+2p = -9.283 (0.016)
 S+2n = -15.125 (0.003)
 S+alpha = 2.698 (0.003)

gap p = 2.366 (0.014)
 gap n = 2.445 (0.011)
 gap 2p = 1.464 (0.016)
 gap 2n = 0.504 (0.006)
 gap alpha = -0.571 (0.003)