

^{190}Pt $Z = 78$ $N = 112$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

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 4.97E11 Y 16
190PT 2	0.296	2+			2 62.3 PS 31
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 (2,1)+	17
190PT 18				1.625 (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				2.213 (1-)	30

190PT 31				2.216 (2+,3,4+)	31
190PT 32			2.223 9-		32
190PT 33				2.297 (10-)	33 48 NS 5
190PT 34				2.358 (2)+	34
190PT 35				2.383 (1)+	35
190PT 36				2.408 (1-,2-,3-)	36
190PT 37				2.498 (2+)	37

190PT 38		2.535	10+					38	
190PT 39						2.571	(11-)	39	
190PT 40		2.603	10+					40	

190PT 41						2.680	(1-)	41	
190PT 42						2.683	(10-)	42	
190PT 43						2.702	(10)+	43	
190PT 44						2.723	(1-)	44	
190PT 45		2.727	12+					45 1.39 NS 12	
190PT 46						2.761	(11-)	46	
190PT 47						2.797		47	
190PT 48						2.820	(11+)	48	
190PT 49						2.822	(12-)	49	
190PT 50						2.875		50	

190PT 51						2.943	(0-,1-,2-)	51	
190PT 52					2.981	1-		52	
190PT 53						3.014	(2)-	53	
190PT 54						3.025	(12-)	54	
190PT 55						3.049	(2)-	55	
190PT 56						3.067	(1,2)-	56	
190PT 57		3.069	14+					57	
190PT 58						3.112	(13-)	58	
190PT 59						3.233	(2-,3-)	59	
190PT 60						3.345	(13-)	60	

190PT 61						3.415	(14+)	61	
190PT 62						3.576	(16+)	62	
190PT 63						3.666	(16+)	63	
190PT 64						3.808	(18+)	64	
190PT 65						3.856	(15-)	65	
190PT 66						4.056		66	
190PT 67						4.083	(17-)	67	
190PT 68						4.134	(20+)	68	
190PT 69						4.215	(18+)	69	
190PT 70						4.267	(19-)	70	

190PT 71						4.612	(21+)	71	
190PT 72						4.654	(21-)	72	
190PT 73						4.930	(22+)	73	
190PT 74						4.958	(20+)	74	
190PT 75						5.330	(23+)	75	
190PT 76						5.391	(24+)	76	
190PT 77						5.448	(23-)	77	
190PT 78						5.720	(25+)	78	
190PT 79						6.007	(24-)	79	

S-p	=	6.146	(0.013)	-----					
190PT 80						6.282	(26+)	80	

190PT 81						6.740	(26-)	81	

190PT	82				6.791	(28+)	82
190PT	83				7.227	(28-)	83
190PT	84				7.469	(30+)	84
190PT	85				7.534	(30-)	85
190PT	86				7.957	(32-)	86
190PT	87				7.992	(32+)	87
190PT	88				8.131	(33-)	88
190PT	89				8.772	(35-)	89

S-p = 6.146 (0.013)-----
 S-n = 8.908 (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 = 2.365 (0.014)
 gap n = 2.445 (0.011)
 gap 2p = 1.464 (0.016)
 gap 2n = 0.503 (0.006)
 gap alpha = -0.571 (0.003)