

^{178}Pt $Z = 78$ $N = 100$ [link to full NNDC output](#)

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

BE = 1407.669 (0.010) MeV

Qbeta+ = 4.255 (0.022) MeV

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

S-alpha=	-5.573	(0.014)	-----		
178PT 1	0.000	0+			1 20.7 S 7
178PT 2	0.170	2+			2
178PT 3	0.421	0+			3 0.7 NS LT
178PT 4	0.427	4+			4 37.5 PS 32
178PT 5	0.653	2+			5
178PT 6	0.765	6+			6 10.9 PS 8
178PT 7				1.001 (3)	7
178PT 8				1.058 (4+)	8
178PT 9	1.178	8+			9
178PT 10				1.346	10

178PT 11				1.426	11
178PT 12				1.477 (6+)	12
178PT 13			1.574 5-		13
178PT 14				1.582	14
178PT 15				1.633	15
178PT 16	1.661	10+			16
178PT 17				1.747	17
178PT 18				1.810 (6-)	18
178PT 19			1.814 7-		19
178PT 20				2.030	20

178PT 21				2.119 (8-)	21
178PT 22			2.138 9-		22
178PT 23				2.197 (8+)	23
178PT 24	2.209	12+			24
178PT 25				2.345	25
178PT 26				2.496 (10-)	26
178PT 27			2.534 11-		27
178PT 28	2.814	14+			28
178PT 29				2.925 (12-)	29
178PT 30			2.996 13-		30

S-p	= 3.239	(0.022)	-----		
178PT 31				3.408 (14-)	31
178PT 32	3.459	16+			32
178PT 33			3.514 15-		33
178PT 34				4.077 (17-)	34
178PT 35				4.110 (18+)	35

S-2p	=	4.477	(0.030)	-----		
178PT 36				4.665	(19-)	36
178PT 37				4.754	(20+)	37
178PT 38				5.282	(21-)	38
178PT 39				5.430	(22+)	39
178PT 40				5.928	(23-)	40

178PT 41				6.159	(24+)	41
178PT 42				6.601	(25-)	42

S-p = 3.239 (0.022)-----
 S-n = 10.698 (0.018)-----
 S-2p = 4.477 (0.030)-----
 S-2n = 19.206 (0.016)-----
 S-alpha= -5.573 (0.014)-----

S+p = -0.280 (0.015)
 S+n = -8.342 (0.013)
 S+2p = -2.831 (0.016)
 S+2n = -18.581 (0.015)
 S+alpha = 5.996 (0.014)

gap p = 2.959 (0.027)
 gap n = 2.356 (0.022)
 gap 2p = 1.646 (0.034)
 gap 2n = 0.625 (0.022)
 gap alpha = 0.422 (0.020)