

$^{180}\text{Pt}$        $Z = 78$        $N = 102$       [link to full NNDC output](#)

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

BE = 1426.250 ( 0.011) MeV

Qbeta+ = 3.542 ( 0.024) MeV

	Energy T	J+	J-	J-other	T1/2
-----					
S-alpha=	-5.237	( 0.030)	-----		
180PT 1	0.000	0+			1 56 S 3
180PT 2	0.153	2+			2 374 PS 35
180PT 3	0.411	4+			3 22.9 PS 28
180PT 4	0.478	0+			4
180PT 5	0.677	2+			5
180PT 6	0.757	6+			6 35 PS LE
180PT 7	0.861	2+			7
180PT 8				0.963 3(+)	8
180PT 9				1.049 (4+)	9
180PT 10	1.178	0+			10
-----					
180PT 11	1.181	8+			11
180PT 12	1.187	2+			12
180PT 13				1.248 (4+)	13
180PT 14				1.315 (5+)	14
180PT 15	1.351	2+			15
180PT 16				1.388	16
180PT 17				1.491	17
180PT 18				1.535 (2+,3,4+)	18
180PT 19				1.588 (4,5+)	19
180PT 20				1.615 (5-,4+)	20
-----					
180PT 21				1.650 (6+)	21
180PT 22	1.674	10+			22
180PT 23				1.727 (7+)	23
180PT 24				1.815 (6,7+)	24
180PT 25				1.852 (7-,6+)	25
180PT 26				1.915 (6,7+)	26
180PT 27				2.012 (7,8+)	27
180PT 28				2.107 (8,9+)	28
180PT 29				2.162	29
180PT 30				2.169 (9-,8+)	30
-----					
180PT 31				2.183 (8,9+)	31
180PT 32				2.198 (9+)	32
180PT 33	2.229	12+			33
180PT 34				2.287 (8,9)	34
180PT 35				2.402	35
180PT 36				2.444 (9,10)	36

180PT	37				2.455	(9,10)	37
180PT	38				2.557	(11-,10+)	38
180PT	39				2.558	(10,11+)	39
180PT	40				2.626	(10,11)	40
-----							
180PT	41				2.765	(12+)	41
180PT	42				2.834	(11,12)	42
180PT	43	2.842	14+				43
180PT	44				2.873	(11,12)	44
180PT	45				3.006	(12,13+)	45
180PT	46				3.008	(13-,12+)	46
180PT	47				3.050	(12,13)	47
180PT	48				3.209	(14+)	48
180PT	49				3.302	(13,14)	49
180PT	50				3.361	(13,14)	50
-----							
180PT	51	3.505	16+				51
180PT	52				3.507	(15-,14+)	52
180PT	53				3.510	(14,15+)	53
180PT	54				3.545	(14,15)	54
180PT	55				3.572		55
S-p	=	3.643 ( 0.015)		-----			
180PT	56				3.677	(16+)	56
180PT	57				3.833	(15,16)	57
180PT	58				3.911	(15,16)	58
180PT	59				4.044	(17-,16+)	59
180PT	60				4.063	(16,17+)	60
-----							
180PT	61				4.100	(16,17)	61
180PT	62				4.126		62
180PT	63				4.181	(18+)	63
180PT	64	4.253	18+				64
180PT	65				4.421	(17,18)	65
180PT	66				4.512	(17,18)	66
180PT	67				4.640	(19-,18+)	67
180PT	68				4.661	(18,19+)	68
180PT	69				4.676		69
180PT	70				4.710	(18,19)	70
-----							
180PT	71				4.804	(20+)	71
180PT	72	4.985	20+				72
180PT	73				5.063	(19,20)	73
180PT	74				5.161	(19,20)	74
180PT	75				5.289	(21-,20+)	75
180PT	76				5.293	(20,21+)	76
180PT	77				5.400		77
180PT	78				5.468	(22+)	78
S-2p	=	5.470 ( 0.018)		-----			
180PT	79	5.728	22+				79
180PT	80				5.754	(21,22)	80

180PT 81			5.853	(21,22)	81
180PT 82			5.938	(22,23+)	82
180PT 83			5.948	(23-,22+)	83
180PT 84			6.007		84
180PT 85			6.179	(24+)	85
180PT 86			6.491		86
180PT 87			6.526		87
180PT 88			6.551	(24+)	88
180PT 89			6.581	(23,24)	89
180PT 90			6.618	(25-,24+)	90
-----					
180PT 91			6.936	(26+)	91
180PT 92			7.238		92
180PT 93			7.435	(26+)	93

S-p = 3.643 ( 0.015)-----  
S-n = 10.239 ( 0.014)-----  
S-2p = 5.470 ( 0.018)-----  
S-2n = 18.581 ( 0.015)-----  
S-alpha= -5.237 ( 0.030)-----

S+p = -0.724 ( 0.023)  
S+n = -8.017 ( 0.018)  
S+2p = -3.719 ( 0.015)  
S+2n = -17.875 ( 0.017)  
S+alpha = 5.662 ( 0.015)

gap p = 2.919 ( 0.027)  
gap n = 2.223 ( 0.022)  
gap 2p = 1.751 ( 0.023)  
gap 2n = 0.706 ( 0.023)  
gap alpha = 0.425 ( 0.034)