

^{166}W $Z = 74$ $N = 92$ [link to full NNDC output](#)

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

BE = 1323.833 (0.009) MeV

Qbeta+ = 4.210 (0.029) MeV

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

S-alpha=	-4.856	(0.013)	-----		
166W 1	0.000	0+			1 19.2 S 6
166W 2	0.252	2+			2
166W 3	0.676	4+			3
166W 4	1.226	6+			4
166W 5				1.587 (5-)	5
166W 6	1.865	8+			6
166W 7				1.929 (7-)	7
166W 8				2.020 (6-)	8
166W 9				2.337 (9-)	9
166W 10				2.349 (8-)	10

166W 11	2.552	10+			11
166W 12				2.573 (10-)	12
166W 13				2.743 (11-)	13
166W 14				2.947 (12-)	14
166W 15				3.031 (12+)	15
166W 16				3.173 (13-)	16
S-p =	3.329	(0.017)	-----		
166W 17				3.356 (14+)	17
166W 18				3.474 (14-)	18
166W 19				3.722 (15-)	19
166W 20				3.821 (16+)	20

166W 21				4.127 (16-)	21
166W 22				4.378 (17-)	22
166W 23				4.388 (18+)	23
S-2p =	4.647	(0.018)	-----		
166W 24				4.871 (18-)	24
166W 25				5.027 (20+)	25
166W 26				5.114 (19-)	26
166W 27				5.580 (20-)	27
166W 28				5.729 (22+)	28
166W 29				5.854 (21-)	29
166W 30				6.169 (22-)	30

166W 31				6.492 (24+)	31
166W 32				6.496 (23-)	32
166W 33				6.811 (24-)	33
166W 34				7.170 (25-)	34

166W	35				7.313	(26+)	35
166W	36				7.520	(26-)	36
166W	37				7.917	(27-)	37
166W	38				8.184	(28+)	38
166W	39				8.290	(28-)	39
166W	40				8.725	(29-)	40

166W	41				9.107	(30+)	41
166W	42				10.076	(32+)	42

S-p = 3.329 (0.017)-----
 S-n = 11.098 (0.027)-----
 S-2p = 4.647 (0.018)-----
 S-2n = 19.795 (0.014)-----
 S-alpha= -4.856 (0.013)-----

S+p = 0.000 (0.000)
 S+n = -8.281 (0.021)
 S+2p = -2.685 (0.014)
 S+2n = -19.148 (0.016)
 S+alpha = 5.537 (0.014)

gap p = 0.000 (0.000)
 gap n = 2.817 (0.034)
 gap 2p = 1.962 (0.023)
 gap 2n = 0.647 (0.021)
 gap alpha = 0.681 (0.019)