

^{166}W $Z = 74$ $N = 92$ adopted link ENSDF link

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

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

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 = -0.310 (0.009)
S+n = -8.277 (0.021)
S+2p = -2.685 (0.014)
S+2n = -19.148 (0.016)
S+alpha = 5.537 (0.014)

gap p = 3.018 (0.019)
gap n = 2.821 (0.035)
gap 2p = 1.962 (0.023)
gap 2n = 0.647 (0.021)
gap alpha = 0.681 (0.019)