

^{172}W $Z = 74$ $N = 98$ adopted link ENSDF link

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

BE = 1379.470 (0.028) MeV

Qbeta+ = 2.233 (0.040) MeV

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

S-alpha=	-3.838	(0.040)	-----		
172W 1	0.000	0+			1 6.6 M 9
172W 2	0.123	2+			2 0.74 NS 6
172W 3	0.377	4+			3 33.7 PS 24
172W 4	0.728	6+			4 6.8 PS 7
172W 5	1.147	8+			5 2.61 PS 28
172W 6				1.434 (4-)	6 58 PS 20
172W 7	1.617	10+			7 1.54 PS 23
172W 8				1.713 (6-)	8 11 PS 1
172W 9				1.762 (7-)	9
172W 10				2.074 (8-)	10 6.9 PS 11

172W 11				2.106 (9-)	11 2.2 PS 4
172W 12	2.130	12+			12 1.03 PS 16
172W 13				2.342 (9-)	13 1.4 PS 2
172W 14				2.476 (10-)	14 8.7 PS LT
172W 15				2.518 (10-)	15
172W 16				2.519 (11-)	16 5.3 PS 7
172W 17				2.659 (11-)	17 7.7 PS 20
172W 18	2.680	14+			18 0.78 PS 21
172W 19				2.849 (12-)	19
172W 20				2.992 (13-)	20 1.6 PS LT

172W 21				3.064 (13-)	21 5.4 PS 8
172W 22	3.256	16+			22 0.50 PS 13
172W 23				3.293 (14-)	23
172W 24				3.511 (15-)	24
172W 25				3.554 (15-)	25 1.8 PS LT
172W 26				3.804 (16-)	26
172W 27	3.854	18+			27 0.40 PS 14
172W 28				4.067 (17-)	28
172W 29				4.101 (17-)	29
172W 30				4.360 (18-)	30

172W 31	4.499	20+			31 0.31 PS 9
172W 32				4.652 (19-)	32
S-p =	4.666	(0.040)	-----		
172W 33				4.669 (19-)	33
172W 34				4.947 (20-)	34
172W 35				5.210 (22+)	35 0.27 PS 11

172W	36				5.237	(21-)	36
172W	37				5.279	(21-)	37
172W	38				5.574	(22-)	38
172W	39				5.863	(23-)	39
172W	40				5.938	(23-)	40

172W	41				5.986	(24+)	41
172W	42				6.262	(24-)	42
172W	43				6.557	(25-)	43
172W	44				6.824	(26+)	44
172W	45				7.021	(26-)	45
172W	46				7.326	(27-)	46
S-2p	=	7.421	(0.040)	-----			
172W	47				7.720	(28+)	47
172W	48				8.170	(29-)	48
172W	49				8.668	(30+)	49
172W	50				9.084	(31-)	50

S-p = 4.666 (0.040)-----
S-n = 10.083 (0.040)-----
S-2p = 7.421 (0.040)-----
S-2n = 17.949 (0.031)-----
S-alpha= -3.838 (0.040)-----

S+p = -1.746 (0.040)
S+n = -7.702 (0.040)
S+2p = -5.476 (0.030)
S+2n = -17.273 (0.040)
S+alpha = 4.541 (0.030)

gap p = 2.920 (0.056)
gap n = 2.381 (0.056)
gap 2p = 1.945 (0.049)
gap 2n = 0.676 (0.050)
gap alpha = 0.703 (0.050)