

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

Based on ensdf_240402 (Apr 2024), 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)					