

^{163}W $Z = 74$ $N = 89$ adopted link ENSDF link

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

BE = 1292.640 (0.058) MeV

Qbeta+ = 7.626 (0.070) MeV

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

S-alpha=	-5.519	(0.061)	-----		
163W 1			0.000	7/2-	1 2.67 S 10
163W 2			0.102	9/2-	2
163W 3			0.442	11/2-	3
163W 4	0.480	13/2+			4 154 NS 3
163W 5				0.516 (13/2-)	5
163W 6				0.864 (17/2+)	6
163W 7				1.013 (15/2-)	7
163W 8				1.079 (17/2-)	8
163W 9				1.370 (21/2+)	9
163W 10				1.624	10

163W 11				1.651 (19/2-)	11
163W 12				1.734 (21/2-)	12
163W 13				1.925 (25/2+)	13
163W 14				2.236	14
163W 15				2.250	15
163W 16				2.411	16
S-p	=	2.416	(0.086)	-----	
163W 17				2.442 (25/2-)	17
163W 18				2.528 (29/2+)	18
163W 19				2.864	19
163W 20				2.881	20

163W 21				3.159 (33/2+)	21
S-2p	=	3.171	(0.063)	-----	
163W 22				3.174 (29/2-)	22
163W 23				3.327	23
163W 24				3.776	24
163W 25				3.825 (37/2+)	25
163W 26				3.900 (33/2-)	26
163W 27				3.955 (35/2-)	27
163W 28				4.230 (37/2-)	28
163W 29				4.549 (39/2-)	29
163W 30				4.549 (41/2+)	30

163W 31				4.787 (41/2-)	31
163W 32				5.187 (43/2-)	32
163W 33				5.296 (45/2+)	33
163W 34				5.448 (45/2-)	34

163W	35				5.939	(47/2-)	35
163W	36				6.059	(49/2+)	36
163W	37				6.187	(49/2-)	37
163W	38				6.865	(53/2+)	38
163W	39				7.737	(57/2+)	39

S-p = 2.416 (0.086)-----
 S-n = 8.981 (0.061)-----
 S-2p = 3.171 (0.063)-----
 S-2n = 20.579 (0.171)-----
 S-alpha= -5.519 (0.061)-----

S+p = 0.147 (0.080)
 S+n = -11.398 (0.059)
 S+2p = -1.455 (0.175)
 S+2n = -20.095 (0.064)
 S+alpha = 5.985 (0.100)

gap p = 2.563 (0.118)
 gap n = -2.418 (0.085)
 gap 2p = 1.715 (0.186)
 gap 2n = 0.483 (0.183)
 gap alpha = 0.465 (0.117)