

^{77}Zn $Z = 30$ $N = 47$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 656.810 (0.002) MeV

Qbeta- = 7.203 (0.003) MeV

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

77ZN 1	0.000	7/2+			1 2.08 S 5
77ZN 2	0.115	(9/2+)			2
77ZN 3			0.772	1/2-	3 1.05 S 10
77ZN 4	0.802	(11/2+)			4
77ZN 5				1.130	5
77ZN 6				1.235	6
77ZN 7				1.278 (5/2-,3/2	7
77ZN 8				1.285	8
77ZN 9				1.364 (1/2+,3/2	9
77ZN 10				1.409	10

77ZN 11				1.427	11
77ZN 12				1.637	12
77ZN 13				1.876	13
77ZN 14				2.083	14
77ZN 15				2.153	15
77ZN 16	2.235	(5/2+)			16
77ZN 17				2.380	17
77ZN 18				2.527	18
77ZN 19				2.546	19
77ZN 20				2.574	20

77ZN 21				2.654	21
77ZN 22				2.873	22
77ZN 23				2.892	23
77ZN 24				3.001	24
77ZN 25				3.083	25
77ZN 26				3.095	26
77ZN 27				3.139	27
77ZN 28				3.205	28
77ZN 29				3.387	29
77ZN 30				3.427	30

77ZN 31				3.710	31
77ZN 32				3.744	32
77ZN 33				3.824	33
77ZN 34				4.334	34
77ZN 35				4.532	35

S-n	=	4.558 (0.002)			

S-p = 15.097 (0.002) -----
S-n = 4.558 (0.002) -----
S-2p = 29.135 (0.225) -----
S-2n = 12.373 (0.003) -----
S-alpha= 11.106 (0.003) -----

S+p = -12.204 (0.002)
S+n = -6.765 (0.003)
S+2p = -25.316 (0.037)
S+2n = -10.786 (0.003)
S+alpha = -9.927 (0.003)

gap p = 2.893 (0.003)
gap n = -2.208 (0.004)
gap 2p = 3.819 (0.228)
gap 2n = 1.587 (0.004)
gap alpha = 1.179 (0.004)