

^{68}Ni $Z = 28$ $N = 40$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 590.408 (0.003) MeV

Qbeta- = 2.103 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
68NI 1	0.000	0+			1 29 S 2
68NI 2	1.770	0+			2 270 NS 5
68NI 3	2.034	2+			3 0.31 PS 5
68NI 4				2.512 (0+)	4 15 NS LT
68NI 5				2.744 (2)+	5
68NI 6			2.849 5-		6 0.86 MS 5
68NI 7				3.121	7
68NI 8				3.149 (4+)	8
68NI 9				3.444 (6-,7-)	9
68NI 10				3.543	10
68NI 11				3.558 (6-)	11
68NI 12				3.935 (7)	12
68NI 13				3.989	13
68NI 14				4.001 (6+)	14
68NI 15				4.027 (1,2)	15
68NI 16				4.166 (0,1,2)	16
68NI 17				4.210 (8+)	17 23 NS 1
68NI 18				5.513 (0+,1+,2+)	18
68NI 19				5.550 (0+,1+,2+)	19
68NI 20				5.775 (0+,1+,2+)	20

S-p = 15.431 (0.007)-----
 S-n = 7.792 (0.004)-----
 S-2p = 27.974 (0.005)-----
 S-2n = 13.600 (0.003)-----
 S-alpha= 10.919 (0.006)-----

S+p = -9.561 (0.003)
 S+n = -4.586 (0.005)
 S+2p = -20.679 (0.004)
 S+2n = -11.893 (0.004)
 S+alpha = -7.107 (0.004)

gap p = 5.870 (0.008)
 gap n = 3.206 (0.006)
 gap 2p = 7.295 (0.006)
 gap 2n = 1.708 (0.005)

gap alpha = 3.813 (0.007)