

^{72}Cu $Z = 29$ $N = 43$ [link to full NNDC output](#)

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

BE = 618.230 (0.001) MeV

Qbeta- = 8.362 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
72CU	1			0.000 (2)	1 6.63 S 3
72CU	2			0.137 (3-)	2 17.6 NS 7
72CU	3			0.219 (4-)	3 0.09 NS 3
72CU	4			0.270 (6-)	4 1.76 US 3
72CU	5			0.376 (1+)	5
72CU	6			0.452 (2)	6
72CU	7			0.471 (1+)	7
72CU	8			0.476	8
72CU	9			0.673	9
72CU	10			0.987	10
72CU	11			1.517	11
72CU	12			1.709	12
72CU	13			1.762	13
72CU	14			1.895	14
72CU	15			2.060 (1+)	15
72CU	16			2.197 (1+)	16
72CU	17			2.597	17

S-p = 11.666 (0.003)-----

S-n = 5.143 (0.002)-----

S-2p = 0.000 (0.000)-----

S-2n = 12.949 (0.002)-----

S-alpha= 10.277 (0.190)-----

S+p = -13.099 (0.002)

S+n = -7.276 (0.002)

S+2p = -22.845 (0.003)

S+2n = -12.366 (0.006)

S+alpha = -8.939 (0.002)

gap p = -1.434 (0.004)

gap n = -2.133 (0.003)

gap 2p = 0.000 (0.000)

gap 2n = 0.583 (0.007)

gap alpha = 1.339 (0.190)