

^{72}Cu $Z = 29$ $N = 43$ adopted link ENSDF link

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

BE = 618.230 (0.001) MeV

Qbeta- = 8.363 (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 = 27.836 (0.011) -----
 S-2n = 12.949 (0.002) -----
 S-alpha = 10.565 (0.004) -----

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 = 4.991 (0.012)
 gap 2n = 0.583 (0.007)
 gap alpha = 1.627 (0.005)