

^{69}Cu $Z = 29$ $N = 40$ adopted link ENSDF link

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

BE = 599.969 (0.001) MeV

Qbeta- = 2.682 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2		
69CU 1			0.000	3/2-	1	2.85 M	15
69CU 2			1.096	1/2-	2	2.0 PS	2
69CU 3			1.110	1/2-	3		
69CU 4					4	4.3 PS	4
69CU 5					5		
69CU 6					6		
69CU 7					7		
69CU 8			1.711	7/2-	8		
69CU 9			1.871	7/2-	9	0.30 PS	5
69CU 10			2.182	9/2-	10		
69CU 11					11		
69CU 12					12		
69CU 13			2.668	11/2-	13		
69CU 14					14		
69CU 15					15	357 NS	2
69CU 16					16		
69CU 17					17		
69CU 18			2.868	11/2-	18		
69CU 19					19		
69CU 20					20		
69CU 21			3.483	15/2-	21		
69CU 22					22	22 NS	1
69CU 23					23	39 NS	6

S-p = 9.561 (0.003)-----

S-n = 8.240 (0.002)-----

S-2p = 24.992 (0.007)-----

S-2n = 14.559 (0.002)-----

S-alpha= 8.976 (0.003)-----

S+p = -11.118 (0.002)

S+n = -5.312 (0.002)

S+2p = -18.981 (0.002)

S+2n = -13.118 (0.002)

S+alpha = -6.388 (0.002)

gap p = -1.556 (0.004)

gap n = 2.929 (0.003)
gap 2p = 6.011 (0.007)
gap 2n = 1.442 (0.003)
gap alpha = 2.588 (0.003)