

^{67}Cu $Z = 29$ $N = 38$ [link to full NNDC output](#)

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

BE = 585.410 (0.001) MeV

Qbeta- = 0.561 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
67CU 1			0.000	3/2-	1 61.83 H 12
67CU 2			1.115	5/2-	2
67CU 3				1.170 (1/2)-	3
67CU 4				1.633	4
67CU 5			1.670	7/2-	5
67CU 6			1.937	3/2-	6
67CU 7				2.272 (1/2,3/2)-	7
67CU 8			2.340	7/2-	8
67CU 9	2.503	9/2+			9 0.3 NS LT
67CU 10				2.623 (1/2,3/2)-	10
67CU 11			2.680	3/2-	11
67CU 12				2.841 (1/2,3/2)-	12
67CU 13				2.930	13
67CU 14				2.940	14
67CU 15				2.996	15
67CU 16				3.036	16
67CU 17			3.090	3/2-	17
67CU 18				3.123	18
67CU 19				3.250 (7/2+,9/2-)	19
67CU 20				3.277 (5/2)	20
67CU 21				3.334	21
67CU 22	3.364	13/2+			22
67CU 23				3.394	23
67CU 24	3.464	15/2+			24 2.4 NS LT
67CU 25				3.480 (11/2-,9/2)	25
67CU 26				3.522 (7/2,9/2-)	26
67CU 27				3.638 (11/2-)	27
67CU 28				3.693 (11/2-,9/2)	28
67CU 29				3.736 (5/2)	29
67CU 30				3.838 (5/2)	30
67CU 31				3.865 (5/2)	31
67CU 32				3.947 (5/2)	32
67CU 33				3.998 (17/2+,15/2-)	33
67CU 34				4.031	34
67CU 35				4.059 (7/2)	35
67CU 36				4.127 (7/2)	36
67CU 37				4.163 (9/2)	37

67CU	38				4.195	(7/2)	38
67CU	39				4.262	(7/2)	39
67CU	40				4.315	(13/2+)	40

67CU	41				4.364	(7/2,11/2-)	41
67CU	42				4.406	(11/2-)	42
67CU	43				4.448	(7/2,9/2-)	43
67CU	44				4.493		44
67CU	45				4.518		45
67CU	46				4.561		46
67CU	47				4.603		47

S-p = 8.602 (0.002)-----
 S-n = 9.133 (0.001)-----
 S-2p = 22.712 (0.002)-----
 S-2n = 16.198 (0.001)-----
 S-alpha= 7.893 (0.019)-----

S+p = -9.977 (0.001)
 S+n = -6.319 (0.002)
 S+2p = -16.586 (0.001)
 S+2n = -14.559 (0.002)
 S+alpha = -5.245 (0.001)

gap p = -1.374 (0.002)
 gap n = 2.814 (0.002)
 gap 2p = 6.126 (0.003)
 gap 2n = 1.639 (0.002)
 gap alpha = 2.648 (0.019)