

^{71}Cu $Z = 29$ $N = 42$ [link to full NNDC output](#)

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

BE = 613.087 (0.001) MeV

Qbeta- = 4.618 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
71CU 1				0.000 3/2(-)	1 19.4 S 16
71CU 2				0.454 (1/2-)	2
71CU 3				0.534 (5/2-)	3
71CU 4				0.981 (7/2-)	4
71CU 5				1.189 (7/2-)	5 1.15 PS 13
71CU 6				1.453 (9/2-)	6
71CU 7				1.633	7
71CU 8				1.786 (9/2-)	8
71CU 9				1.846 (7/2-,9/2-)	9
71CU 10				1.895 (7/2-)	10
71CU 11				1.974 (11/2-)	11
71CU 12				2.129 (11/2-)	12
71CU 13				2.151	13
71CU 14				2.290	14
71CU 15				2.552 (7/2+)	15
71CU 16				2.600	16
71CU 17				2.623 (15/2-)	17 328 PS 17
71CU 18				2.687	18
71CU 19				2.751	19
71CU 20				2.756 (19/2-)	20 0.271 US 14
71CU 21				2.806 (9/2+,11/2+)	21
71CU 22				2.867	22
71CU 23				2.925	23
71CU 24				3.035 (9/2+,11/2+)	24
71CU 25				4.777 (23/2-)	25
71CU 26				5.331 (27/2-,25/2)	26

S-p = 10.786 (0.003)-----
 S-n = 7.806 (0.002)-----
 S-2p = 27.010 (0.140)-----
 S-2n = 13.118 (0.002)-----
 S-alpha= 9.814 (0.007)-----

S+p = -12.723 (0.003)
 S+n = -5.143 (0.002)
 S+2p = -21.566 (0.002)
 S+2n = -12.419 (0.002)

S+alpha = -8.178 (0.003)

gap p = -1.937 (0.004)

gap n = 2.663 (0.003)

gap 2p = 5.444 (0.141)

gap 2n = 0.699 (0.003)

gap alpha = 1.636 (0.007)