

^{62}Cu $Z = 29$ $N = 33$ adopted link ENSDF link

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

BE = 540.521 (0.001) MeV

Qbeta+ = 3.959 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
62CU 1	0.000	1+			1 9.67 M 3
62CU 2	0.041	2+			2 4.57 NS 18
62CU 3	0.243	2+			3
62CU 4	0.288	2+			4
62CU 5	0.390	4+			5 11 NS 1
62CU 6	0.426	3+			6 0.16 PS GT
62CU 7	0.548	1+			7 0.17 PS GT
62CU 8	0.637	1+			8 0.15 PS +28-8
62CU 9				0.645 (2+)	9
62CU 10	0.675	3+			10
62CU 11				0.698 (3)+	11
62CU 12	0.728	2+			12
62CU 13				0.756 (2+)	13
62CU 14	0.915	2+			14
62CU 15	0.983	3+			15
62CU 16	1.023	2+			16
62CU 17				1.052 +	17
62CU 18	1.077	2+			18
62CU 19				1.142 2+,3+	19
62CU 20				1.144 2+,3+	20
62CU 21	1.170	2+			21
62CU 22				1.222 +	22
62CU 23				1.249 (4)+	23
62CU 24				1.285 (2,3)+	24
62CU 25				1.346 (2)+	25
62CU 26				1.354	26
62CU 27				1.367	27
62CU 28	1.370	5+			28 2 PS LT
62CU 29				1.374 1,2,3	29
62CU 30				1.395 (+)	30
62CU 31				1.403 2+,3,4+	31
62CU 32				1.410 +	32
62CU 33				1.416	33
62CU 34				1.428	34
62CU 35	1.430	1+			35
62CU 36				1.433 1+,2+	36
62CU 37				1.486 3+,4+,5+	37

62CU 38						1.505		38
62CU 39						1.507		39
62CU 40						1.511	(2,3,4)+	40

62CU 41		1.526	1+					41
62CU 42						1.568	2-,3-	42
62CU 43						1.582	-	43
62CU 44						1.587	(0:3)+	44
62CU 45						1.678	(5+)	45
62CU 46						1.678	(0:3)(+)	46
62CU 47						1.679		47
62CU 48						1.682	(2-)	48
62CU 49						1.711	1+,2+,3+	49
62CU 50						1.736		50

62CU 51						1.745	+	51
62CU 52						1.760		52
62CU 53						1.775	1+,2+,3+	53
62CU 54						1.820	+	54
62CU 55						1.828		55
62CU 56						1.843	+	56
62CU 57						1.917	(5)-	57
62CU 58						1.921	(5+)	58
62CU 59						1.981	+	59
62CU 60						1.996	+	60

62CU 61						2.022	(+)	61
62CU 62						2.068	(+)	62
62CU 63						2.107	(+)	63
62CU 64						2.139	(+)	64
62CU 65						2.146		65
62CU 66						2.148	(6+)	66
62CU 67						2.155		67
62CU 68						2.161	3+,4+	68
62CU 69						2.176	1+,2+,3+	69
62CU 70						2.224	(+)	70

62CU 71						2.239	(+)	71
62CU 72						2.295	(6-)	72
62CU 73						2.315	+	73
62CU 74						2.360	3+,4+,5+	74
62CU 75						2.374	(+)	75
62CU 76						2.422	(+)	76
62CU 77						2.444	+	77
62CU 78						2.486		78
62CU 79						2.506	(+)	79
62CU 80						2.519	(6-)	80

62CU 81						2.547	(+)	81
62CU 82						2.565		82

16.4 PS 13

62CU 83				2.610		83
62CU 84				2.623		84
62CU 85				2.639		85
62CU 86				2.704	(+)	86
62CU 87				2.725		87
62CU 88				2.740		88
62CU 89				2.834	(7+)	89
62CU 90				2.835	1+,2+,3+	90

62CU 91				2.860	+	91
62CU 92				2.876	+	92
62CU 93				2.892	(7-)	93
62CU 94				2.920	(+)	94
62CU 95				2.944	-	95
62CU 96				2.993	+	96
62CU 97				3.008	(1+,2+,3+)	97
62CU 98				3.030	(7-)	98
62CU 99				3.150	(3+,4+,5+)	99
62CU 100				3.192	(6-)	100

62CU 101		3.310	3+			101
62CU 102						102
62CU 103						103
62CU 104						104
62CU 105						105
62CU 106						106
62CU 107						107
62CU 108						108
62CU 109						109
62CU 110						110

62CU 111						111
62CU 112						112
62CU 113						113
62CU 114						114
62CU 115						115
62CU 116						116
62CU 117						117
62CU 118						118
62CU 119						119

S-alpha=		5.365	(0.001)	-----		
62CU 120						120

62CU 121		5.720	2+			121
62CU 122						122
62CU 123						123

S-p		5.854	(0.001)	-----		
62CU 124						124
62CU 125						125
62CU 126						126

62CU 127			6.390		127
62CU 128			6.529	(13-)	128
62CU 129			7.101	(12+)	129
62CU 130			7.135	(13-)	130

62CU 131			7.241	(14-)	131
62CU 132			7.285	(12+)	132
62CU 133			7.620	(12+)	133
62CU 134			7.710		134
62CU 135			7.970	(1,2,3)+	135
62CU 136			8.190	(0:3)+	136
62CU 137			8.601	(13+)	137
S-n	=	8.875 (0.001)	-----		
62CU 138			8.959	(14+)	138
62CU 139			9.045		139
62CU 140			9.276		140

62CU 141			9.430		141
62CU 142			9.478		142
62CU 143			9.640		143
62CU 144			9.689		144
62CU 145			9.916		145
S-p	=	5.854 (0.001)	-----		
S-n	=	8.875 (0.001)	-----		
S-2p	=	15.715 (0.001)	-----		
S-2n	=	20.585 (0.002)	-----		
S-alpha	=	5.365 (0.001)	-----		
S+p	=	-6.715 (0.002)			
S+n	=	-10.864 (0.001)			
S+2p	=	-10.623 (0.002)			
S+2n	=	-18.779 (0.001)			
S+alpha	=	-3.361 (0.001)			
gap p	=	-0.860 (0.002)			
gap n	=	-1.989 (0.001)			
gap 2p	=	5.092 (0.002)			
gap 2n	=	1.805 (0.002)			
gap alpha	=	2.004 (0.002)			