

$^{62}\text{Cu}$        $Z = 29$        $N = 33$       [link to full NNDC output](#)

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

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
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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
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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
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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
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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
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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
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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
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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
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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
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S-alpha=	5.365	( 0.001)	-----	-----	-----	-----
62CU 120						120
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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
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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
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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
62CU 146			10.083		146
62CU 147			10.216		147
62CU 148			10.405		148
62CU 149			10.884		149
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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	=	-18.780 ( 0.001)			
S+alpha	=	-3.361 ( 0.001)			
gap p	=	-0.861 ( 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)			