

^{65}Ni $Z = 28$ $N = 37$ [link to full NNDC output](#)

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

BE = 567.856 (0.001) MeV

Qbeta- = 2.138 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
65NI 1			0.000	5/2-	1 2.5175 H 5
65NI 2			0.063	1/2-	2 69 US 3
65NI 3			0.310	3/2-	3
65NI 4			0.693	3/2-	4
65NI 5	1.017	9/2+			5 25.6 NS 11
65NI 6				1.142 (7/2-,9/2-)	6
65NI 7				1.274 (5/2-)	7
65NI 8			1.418	1/2-	8
65NI 9				1.556 7/2+,9/2+	9
65NI 10			1.594	7/2-	10
65NI 11				1.772 (3/2)-	11
65NI 12	1.920	5/2+			12
65NI 13				2.096	13
65NI 14			2.147	3/2-	14
65NI 15				2.163	15
65NI 16				2.186 (11/2+)	16
65NI 17				2.302	17
65NI 18				2.325	18
65NI 19				2.336	19
65NI 20				2.510 7/2+,9/2+	20
65NI 21				2.519 (13/2+)	21
65NI 22				2.520 3/2+,5/2+	22
65NI 23				2.574	23
65NI 24				2.698	24
65NI 25	2.711	3/2+			25
65NI 26	2.793	5/2+			26
65NI 27	2.829	1/2+			27
65NI 28				2.902 3/2+,5/2+	28
65NI 29				2.906 (13/2+)	29
65NI 30	3.010	3/2+			30
65NI 31				3.044	31
65NI 32				3.108 (1/2-,3/2-)	32
65NI 33				3.197	33
65NI 34				3.261	34
65NI 35				3.279 3/2+,5/2+	35
65NI 36	3.354	5/2+			36
65NI 37	3.401	1/2+			37

65NI 38					3.411	(3/2+,5/2+)	38
65NI 39					3.451	(3/2+,5/2+)	39
65NI 40					3.463		40

65NI 41					3.483		41
65NI 42					3.509	(3/2+,5/2+)	42
65NI 43					3.523	(15/2+)	43
65NI 44		3.563	5/2+				44
65NI 45					3.569		45
65NI 46					3.743	3/2+,5/2+	46
65NI 47					3.907	3/2+,5/2+	47
65NI 48					3.937		48
65NI 49					3.962	(3/2+,5/2+)	49
65NI 50					3.984		50

65NI 51					4.011	(17/2+)	51
65NI 52					4.012	3/2+,5/2+	52
65NI 53					4.061		53
65NI 54					4.084	3/2+,5/2+	54
65NI 55					4.108	3/2+,5/2+	55
65NI 56					4.134	3/2+,5/2+	56
65NI 57					4.165		57
65NI 58		4.199	1/2+				58
65NI 59					4.252	(1/2+)	59
65NI 60					4.299		60

65NI 61		4.343	1/2+				61
65NI 62					4.373		62
65NI 63					4.391	3/2+,5/2+	63
65NI 64					4.408		64
65NI 65					4.443	3/2+,5/2+	65
65NI 66					4.482		66
65NI 67					4.507		67
65NI 68					4.536		68
65NI 69					4.568	3/2+,5/2+	69
65NI 70					4.590		70

65NI 71					4.632		71
65NI 72					4.650	3/2+,5/2+	72
65NI 73					4.677		73
65NI 74					4.712		74
65NI 75					4.750		75
65NI 76					4.781		76
65NI 77					4.808		77
65NI 78					4.834	3/2+,5/2+	78
65NI 79					4.860		79
65NI 80		4.879	1/2+				80

65NI 81					4.902		81
65NI 82					4.916		82

65NI 83			4.934		83
65NI 84			4.949		84
65NI 85			4.972	3/2+,5/2+	85
65NI 86			5.009		86
65NI 87			5.029		87
65NI 88			5.066	3/2+,5/2+	88
65NI 89			5.090		89
65NI 90			5.123	3/2+,5/2+	90

65NI 91			5.133		91
65NI 92			5.193	3/2+,5/2+	92
65NI 93			5.212		93
65NI 94			5.340	3/2+,5/2+	94
65NI 95			5.530		95
65NI 96			5.600		96
65NI 97			5.650		97
65NI 98			5.710		98
65NI 99			5.810		99
65NI 100			5.860		100

65NI 101			5.900		101
65NI 102			6.000		102
65NI 103			6.090		103
S-n = 6.098 (0.001)	-----				
65NI 104			6.120		104
65NI 105			6.180		105
65NI 106			6.250	3/2+,5/2+	106
65NI 107			6.330		107
65NI 108			6.380		108
65NI 109			6.470	(3/2+,5/2+)	109
65NI 110			6.510	(3/2+,5/2+)	110

65NI 111			6.620		111
65NI 112			6.690		112
65NI 113			6.740		113
65NI 114			6.870		114

S-p = 12.622 (0.020)	-----				
S-n = 6.098 (0.001)	-----				
S-2p = 24.068 (0.004)	-----				
S-2n = 15.756 (0.001)	-----				
S-alpha = 8.630 (0.003)	-----				
S+p = -8.421 (0.001)					
S+n = -8.952 (0.001)					
S+2p = -17.333 (0.001)					
S+2n = -14.760 (0.003)					
S+alpha = -5.717 (0.001)					

gap p = 4.201 (0.020)
gap n = -2.854 (0.002)
gap 2p = 6.736 (0.004)
gap 2n = 0.996 (0.003)
gap alpha = 2.913 (0.003)