

$^{65}\text{Ni}$        $Z = 28$        $N = 37$       adopted link      ENSDF link

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

BE = 567.856 ( 0.000) 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
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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
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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
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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
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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
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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
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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
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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
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65NI 111			6.620		111
65NI 112			6.690		112
65NI 113			6.740		113
65NI 114			6.870		114
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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	=	-17.332 ( 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)