

$^{66}\text{Zn}$        $Z = 30$        $N = 36$       [link to full NNDC output](#)

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

BE = 578.136 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
66ZN 1	0.000	0+			1 STABLE
66ZN 2	1.039	2+			2 1.68 PS 3
66ZN 3	1.873	2+			3 0.19 PS 7
66ZN 4	2.372	0+			4 0.21 PS GT
66ZN 5	2.451	4+			5 0.34 PS 5
66ZN 6				2.704 (3)	6
66ZN 7				2.763 (2)	7
66ZN 8	2.766	4+			8 7 PS GT
66ZN 9	2.780	2+			9 0.26 PS 7
66ZN 10			2.827 3-		10 0.180 PS 7
66ZN 11	2.938	2+			11 0.044 PS 16
66ZN 12				3.030 (0+)	12
66ZN 13	3.078	4+			13 1.04 PS 7
66ZN 14	3.105	0+			14
66ZN 15	3.213	2+			15 0.083 PS +21-14
66ZN 16				3.226	16
66ZN 17	3.229	1+			17 0.12 PS 3
66ZN 18				3.241	18
66ZN 19	3.331	2+			19 0.083 PS +21-14
66ZN 20			3.381 1-		20 20 FS 5
66ZN 21				3.427 1,2-	21
66ZN 22			3.432 1-		22 30 FS +19-8
66ZN 23	3.507	2+			23
66ZN 24				3.524	24
66ZN 25	3.532	0+			25
66ZN 26	3.576	4+			26
66ZN 27	3.671	2+			27
66ZN 28				3.689 1+,2+,3+	28
66ZN 29				3.709 (5)	29 0.6 PS +6-2
66ZN 30				3.725	30
66ZN 31				3.732	31
66ZN 32				3.738 +	32 14 FS 2
66ZN 33				3.738 (4+)	33
66ZN 34			3.747 5-		34 46 PS 3
66ZN 35	3.753	4+			35
66ZN 36				3.770 (1-)	36
66ZN 37	3.791	1+			37
66ZN 38				3.806	38

66ZN	39	3.825	0+					39
66ZN	40					3.874		40
-----								
66ZN	41					3.882	(2)+	41
66ZN	42			3.898	5-			42
66ZN	43					3.925		43
66ZN	44					3.946	(1-)	44
66ZN	45					3.969	(4+)	45
66ZN	46	4.005	4+					46
66ZN	47					4.012		47
66ZN	48	4.019	2+					48
66ZN	49					4.076	(6-)	49 29.8 PS 14
66ZN	50					4.081		50
-----								
66ZN	51	4.086	1+					51
66ZN	52					4.109		52
66ZN	53					4.119	(1-)	53
66ZN	54					4.183	(6+)	54 0.15 PS 6
66ZN	55					4.186	(3-)	55
66ZN	56					4.223	(1-)	56
66ZN	57					4.252	(7-)	57 133 PS 10
66ZN	58					4.258		58
66ZN	59	4.267	4+					59
66ZN	60	4.295	1+					60 4.2 FS +18-9
-----								
66ZN	61					4.322		61
66ZN	62	4.332	2+					62
66ZN	63			4.394	3-			63 0.07 PS +4-2
66ZN	64					4.424	1	64 7.0 FS 12
66ZN	65			4.433	1-			65
66ZN	66	4.439	2+					66
66ZN	67					4.454		67
66ZN	68	4.461	1+					68 7 FS +12-3
66ZN	69			4.472	3-			69
66ZN	70					4.498		70
-----								
66ZN	71	4.511	0+					71
66ZN	72					4.511	(2+)	72
66ZN	73					4.527		73
66ZN	74	4.538	4+					74
66ZN	75			4.565	3-			75
66ZN	76			4.567	5-			76
-----								
S-alpha=	4.578 ( 0.001)			-----				
66ZN	77					4.609	(1)	77 8.4 FS +33-18
66ZN	78	4.610	4+					78
66ZN	79					4.622		79
66ZN	80					4.635	(2)	80
-----								
66ZN	81					4.638	1	81
66ZN	82					4.645		82

66ZN 83						4.655	(3-,4+)	83
66ZN 84		4.676	1+					84
66ZN 85						4.680		85
66ZN 86						4.683	(1)	86 7.1 FS +24-14
66ZN 87		4.694	4+					87
66ZN 88		4.730	2+					88
66ZN 89						4.745		89
66ZN 90						4.758		90
-----								
66ZN 91					4.780 5-			91
66ZN 92						4.796	(1-)	92
66ZN 93		4.806	1+					93 3.8 FS +13-8
66ZN 94						4.814	(7-)	94 0.6 PS 4
66ZN 95						4.832		95
66ZN 96		4.850	1+					96
66ZN 97		4.866	1+					97
66ZN 98						4.875		98
66ZN 99						4.885		99
66ZN 100						4.907		100
-----								
66ZN 101						4.918		101
66ZN 102						4.945		102
66ZN 103		4.958	1+					103
66ZN 104						4.984		104
66ZN 105		5.006	1+					105
66ZN 106						5.025		106
66ZN 107						5.038		107
66ZN 108						5.059		108
66ZN 109						5.073		109
66ZN 110						5.086		110
-----								
66ZN 111						5.097		111
66ZN 112						5.106		112
66ZN 113						5.112	(8-)	113
66ZN 114						5.124		114
66ZN 115						5.143		115
66ZN 116						5.159		116
66ZN 117						5.169		117
66ZN 118						5.180		118
66ZN 119						5.198		119
66ZN 120						5.207	(8+)	120 6 PS GT
-----								
66ZN 121						5.222		121
66ZN 122						5.234		122
66ZN 123						5.245		123
66ZN 124						5.263		124
66ZN 125						5.274		125
66ZN 126						5.285		126
66ZN 127						5.305		127
66ZN 128						5.322		128

66ZN 129			5.331		129
66ZN 130			5.352		130
-----					
66ZN 131			5.364		131
66ZN 132			5.375		132
66ZN 133			5.389		133
66ZN 134			5.403		134
66ZN 135			5.420		135
66ZN 136			5.431		136
66ZN 137			5.446		137
66ZN 138			5.464	(9-)	138 1.9 PS 8
66ZN 139			5.500		139
66ZN 140		5.650 3-			140
-----					
66ZN 141			5.740		141
66ZN 142			6.000		142
66ZN 143			6.293	(10+)	143 1.6 PS +7-3
66ZN 144			6.419		144
66ZN 145			6.850	(8+)	145
66ZN 146			7.170		146
66ZN 147			7.367	1	147 1.47 FS 16
66ZN 148			7.517		148 1.5 PS +6-3
66ZN 149			7.550	(6+)	149
66ZN 150			7.693	1	150 2.2 FS 4
-----					
S-p	=	8.924 ( 0.001)	-----		
S-n	=	11.058 ( 0.001)	-----		
66ZN 151			11.060	2-,3-	151
66ZN 152			11.395		152
66ZN 153			11.411		153
66ZN 154			11.457		154
66ZN 155			11.514		155
66ZN 156			11.593		156
66ZN 157			11.654		157
66ZN 158			11.698		158
66ZN 159			11.757		159
66ZN 160			11.841	(2+)	160
-----					
66ZN 161			11.916		161
66ZN 162			12.194		162
66ZN 163			12.218		163
66ZN 164			12.293		164
66ZN 165			12.324		165
66ZN 166			12.401		166
66ZN 167			12.433		167
66ZN 168			12.552		168
66ZN 169			12.602		169
66ZN 170			12.651		170
-----					
66ZN 171			12.688		171

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S-p    =  8.924 ( 0.001)-----  
S-n    = 11.058 ( 0.001)-----  
S-2p   = 16.378 ( 0.001)-----  
S-2n   = 19.038 ( 0.001)-----  
S-alpha=  4.578 ( 0.001)-----  
  
S+p    = -5.269 ( 0.001)  
S+n    = -7.052 ( 0.001)  
S+2p   = -12.658 ( 0.002)  
S+2n   = -17.251 ( 0.001)  
S+alpha = -4.088 ( 0.001)  
  
gap p   =  3.656 ( 0.002)  
gap n   =  4.006 ( 0.001)  
gap 2p  =  3.721 ( 0.002)  
gap 2n  =  1.787 ( 0.001)  
gap alpha =  0.490 ( 0.001)
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