

$^{66}\text{Zn}$        $Z = 30$        $N = 36$       adopted link      ENSDF link

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

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
66ZN	50						4.081	29.8 PS	14
-----									
66ZN	51	4.086	1+						51
66ZN	52						4.109		52
66ZN	53				4.119	(1-)			53
66ZN	54	4.183	(6+)					0.15 PS	6
66ZN	55				4.186	(3-)			55
66ZN	56				4.223	(1-)			56
66ZN	57				4.252	(7-)		133 PS	10
66ZN	58						4.258		58
66ZN	59	4.267	4+						59
66ZN	60	4.295	1+					4.2 FS	+18-9
-----									
66ZN	61						4.322		61
66ZN	62	4.332	2+						62
66ZN	63				4.394	3-		0.07 PS	+4-2
66ZN	64						4.424	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+					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) 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
66ZN 87		4.694		4+			7.1 FS	+24-14
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
66ZN 94						4.814	(7-)	94
66ZN 95								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
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	=	11.059	( 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
66ZN 172			12.714	172

S-p = 8.924 ( 0.001) -----  
 S-n = 11.059 ( 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)