

^{61}Zn $Z = 30$ $N = 31$ [link to full NNDC output](#)

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

BE = 525.229 (0.016) MeV

Qbeta+ = 5.635 (0.016) MeV

	Energy T	J+	J-	J-other	T1/2
61ZN 1			0.000	3/2-	1 89.1 S 2
61ZN 2			0.089	1/2-	2
61ZN 3			0.124	5/2-	3 5.5 NS AP
61ZN 4			0.419	3/2-	4
61ZN 5			0.755	5/2-	5
61ZN 6				0.938 (1/2-)	6
61ZN 7			0.997	7/2-	7
61ZN 8				1.239	8
61ZN 9			1.265	9/2-	9
61ZN 10				1.362 3/2-,5/2-	10
61ZN 11				1.387	11
61ZN 12			1.403	7/2-	12
61ZN 13				1.636	13
61ZN 14				1.658 5/2-,7/2-	14
61ZN 15				1.730	15
61ZN 16			2.003	9/2-	16
61ZN 17				2.030	17
61ZN 18				2.099	18
61ZN 19				2.198	19
61ZN 20				2.250	20
61ZN 21			2.270	11/2-	21
61ZN 22	2.399	9/2+			22
61ZN 23				2.520	23
61ZN 24				2.646	24
S-alpha=	2.690 (0.016)				
61ZN 25			2.699	11/2-	25
61ZN 26				2.715	26
61ZN 27				2.799 (13/2-)	27
61ZN 28				2.804	28
61ZN 29				3.090	29
61ZN 30				3.244 (11/2+)	30
61ZN 31				3.300	31
61ZN 32	3.336	13/2+			32
61ZN 33				3.345	33
61ZN 34				3.380 (3/2-)	34
61ZN 35				3.461 (13/2-)	35
61ZN 36				3.494	36

61ZN	37					3.645		37
61ZN	38					3.844	(15/2-)	38
61ZN	39					3.880		39
61ZN	40		4.264	15/2+				40

61ZN	41					4.309	(13/2)	41
61ZN	42					4.380		42
61ZN	43		4.415	17/2+				43
61ZN	44				4.644	17/2-		44
61ZN	45					4.670		45
61ZN	46					4.915		46
61ZN	47					5.100		47
61ZN	48					5.195	(17/2-)	48
61ZN	49					5.254		49
S-p	=		5.293	(0.016)	-----			
61ZN	50					5.320		50

61ZN	51					5.468		51
61ZN	52					5.543	(19/2-)	52
61ZN	53		5.552	19/2+				53
61ZN	54					5.590		54
61ZN	55		6.090	21/2+				55
61ZN	56					6.212		56
61ZN	57					7.284	(21/2-)	57
61ZN	58					7.296	(23/2+)	58
61ZN	59		7.486	25/2+				59
61ZN	60				7.628	23/2-		60

61ZN	61					8.335	(21/2-)	61
61ZN	62					8.496	(25/2+)	62
61ZN	63					8.775	(23/2-)	63
61ZN	64					8.879	(25/2-)	64
61ZN	65					9.036		65
61ZN	66				9.160	27/2-		66
61ZN	67					9.303	(25/2-)	67
61ZN	68					9.367	(25/2-)	68
S-2p	=		9.770	(0.016)	-----			
61ZN	69					9.951	(27/2-)	69
61ZN	70					9.990	5/2 (3/2-)	70

61ZN	71				10.058	29/2-		71
61ZN	72				10.155	31/2-		72
S-n	=		10.246	(0.016)	-----			
61ZN	73					10.665	(29/2-)	73
61ZN	74					10.871	(25/2+)	74
61ZN	75					11.183	(27/2+)	75
61ZN	76					11.261	(25/2+)	76
61ZN	77					11.368	(25/2+)	77
61ZN	78					11.505	(31/2-)	78
61ZN	79					11.527	(29/2-)	79

61ZN 80			11.770	(29/2+)	80
61ZN 81			12.042	(29/2-)	81
61ZN 82			12.232	(29/2+)	82
61ZN 83			12.337	(29/2-)	83
61ZN 84			12.469	(33/2-)	84
61ZN 85			12.537	(29/2+)	85
61ZN 86			12.665	(31/2-)	86
61ZN 87			12.726	(33/2-)	87
61ZN 88			12.761	(31/2-)	88
61ZN 89			12.802	(29/2+)	89
61ZN 90			12.865	(31/2-)	90
61ZN 91			13.210	(33/2)	91
61ZN 92			13.264	(33/2-)	92
61ZN 93			13.319	(35/2-)	93
61ZN 94			13.664	(33/2-)	94
61ZN 95			13.882	(33/2+)	95
61ZN 96			13.886	(33/2-)	96
61ZN 97			14.061	(35/2-)	97
61ZN 98			14.072	(35/2-)	98
61ZN 99			14.114	(33/2)	99
61ZN 100			14.144	(35/2-)	100
61ZN 101			14.300	(37/2-)	101
61ZN 102			14.325	(35/2-)	102
61ZN 103			14.431	(33/2+)	103
61ZN 104			14.433	(31/2-)	104
61ZN 105			14.449	(35/2-)	105
61ZN 106			14.769		106
61ZN 107			14.817	(35/2-)	107
61ZN 108			15.020	(33/2-)	108
61ZN 109			15.206	(37/2-)	109
61ZN 110			15.224	(33/2-)	110
61ZN 111			15.261	(39/2-)	111
61ZN 112			15.293		112
61ZN 113			15.475	(37/2-)	113
61ZN 114			15.565	(37/2+)	114
61ZN 115			15.739	(37/2-)	115
61ZN 116			16.099	(35/2-)	116
61ZN 117			16.230	(39/2-)	117
61ZN 118			16.280	(37/2+)	118
61ZN 119			16.438	(39/2-)	119
61ZN 120			17.119	(37/2-)	120
61ZN 121			17.126	(39/2-)	121
61ZN 122			17.310	(41/2-)	122
61ZN 123			17.455	(41/2-)	123
61ZN 124			17.610	(41/2+)	124

61ZN 125			17.987	(41/2-)	125
61ZN 126			18.196	(39/2-)	126
61ZN 127			18.363	(41/2+)	127
61ZN 128			18.471	(43/2-)	128
61ZN 129			19.149	(43/2-)	129
61ZN 130			19.270	(41/2-)	130

61ZN 131			19.653	(45/2-)	131
61ZN 132			19.690	(45/2-)	132
61ZN 133			19.773	(43/2-)	133

S-p = 5.293 (0.016)-----
 S-n = 10.246 (0.016)-----
 S-2p = 9.770 (0.016)-----
 S-2n = 25.276 (0.016)-----
 S-alpha= 2.690 (0.016)-----

S+p = -2.927 (0.016)
 S+n = -12.890 (0.016)
 S+2p = -5.150 (0.040)
 S+2n = -22.007 (0.016)
 S+alpha = -2.554 (0.016)

gap p = 2.366 (0.023)
 gap n = -2.645 (0.023)
 gap 2p = 4.620 (0.044)
 gap 2n = 3.269 (0.023)
 gap alpha = 0.136 (0.023)