

^{61}Zn $Z = 30$ $N = 31$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

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 = -12.891 (0.016)
 S+2p = -5.207 (0.026)
 S+2n = -22.007 (0.016)
 S+alpha = -2.554 (0.016)

gap p = 2.366 (0.023)
 gap n = -2.645 (0.022)
 gap 2p = 4.563 (0.031)
 gap 2n = 3.269 (0.023)
 gap alpha = 0.136 (0.023)