

^{62}Zn $Z = 30$ $N = 32$ [link to full NNDC output](#)

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

BE = 538.119 (0.001) MeV

Qbeta+ = 1.619 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
62ZN 1	0.000	0+			1 9.193 H 15
62ZN 2	0.954	2+			2 2.93 PS 14
62ZN 3	1.805	2+			3 2.63 PS 42
62ZN 4	2.186	4+			4 0.53 PS +24-14
62ZN 5	2.342	0+			5
62ZN 6	2.385	3+			6 1.7 PS 11
62ZN 7	2.744	4+			7 2.36 PS 21
62ZN 8	2.803	2+			8 0.146 PS 21
62ZN 9	2.884	2+			9 0.132 PS 21
62ZN 10				3.043 (0+)	10
62ZN 11	3.060	2+			11
62ZN 12				3.160 (2+)	12
62ZN 13				3.181 (1+)	13
62ZN 14	3.210	4+			14 0.250 PS 35
62ZN 15				3.224 3(-)	15
62ZN 16				3.310 (4+)	16
S-alpha=	3.364 (0.001)				
62ZN 17				3.374 (1-)	17
62ZN 18	3.470	2+			18
62ZN 19				3.587 (5+)	19 0.63 PS +63-21
62ZN 20				3.590 (2+)	20
62ZN 21	3.640	2+			21
62ZN 22	3.708	6+			22 0.250 PS 35
62ZN 23				3.730 (3-,4+)	23
62ZN 24	3.830	2+			24
62ZN 25			3.870 1-		25
62ZN 26				3.920 (3-,4+)	26
62ZN 27				3.961 (1+)	27
62ZN 28	4.008	0+			28
62ZN 29				4.022 (1+)	29
62ZN 30				4.040 (1-)	30
62ZN 31				4.043 (5)-	31 0.270 PS 42
62ZN 32				4.090 (4+)	32
62ZN 33				4.218 (3-)	33
62ZN 34				4.330 (2+)	34
62ZN 35	4.348	6+			35 0.48 PS 13
62ZN 36				4.380 (4+)	36

62ZN	37					4.448	(1+)		37
62ZN	38	4.515	6+						38
62ZN	39					4.535			39
62ZN	40					4.600	(7-)		40

62ZN	41					4.620	(0+)		41
62ZN	42	4.680	4+						42
62ZN	43					4.810	(2+,3-)		43
62ZN	44					4.860	(3-,4+)		44
62ZN	45					4.895	(1+)		45
62ZN	46					4.905	(7-)	8.3 PS	35
62ZN	47					4.910	(2+)		47
62ZN	48					5.050	(2+)		48
62ZN	49			5.090	1-				49
62ZN	50					5.123	(7)-	2.1 PS	14

62ZN	51					5.131	(6-)	0.7 PS	GT
62ZN	52					5.143	(7)+	0.42 PS	+21-14
62ZN	53					5.212	(1+)		53
62ZN	54					5.240	(0+)		54
62ZN	55	5.340	0+						55
62ZN	56					5.370	(4+)		56
62ZN	57					5.470			57
62ZN	58					5.482	(8+)	0.28 PS	+14-7
62ZN	59					5.560			59
62ZN	60					5.700			60

62ZN	61					5.921	(1+)		61
62ZN	62					6.082	(9-)	3.9 PS	32
62ZN	63					6.114	(8-)		63
62ZN	64					6.300	(8+)		64
62ZN	65					6.400			65

S-p	=	6.473 (0.001)			-----				
62ZN	66					6.629			66
62ZN	67					7.200			67
62ZN	68					7.400			68
62ZN	69					7.423	(11-)		69
62ZN	70					7.423	(10-)		70

62ZN	71					7.500	(10+)		71
62ZN	72					7.540	(8+)		72
62ZN	73					7.630			73
62ZN	74					7.701			74
62ZN	75					7.976	(9+)		75
62ZN	76					8.300	(6+)		76
62ZN	77					8.437	(10+)		77
62ZN	78					9.025	(12-)		78
62ZN	79					9.049	(11+)		79
62ZN	80					9.214	(13-)		80

62ZN 81				9.465	(12+)	81
62ZN 82				9.800		82
62ZN 83				9.824	(12+)	83
62ZN 84				9.960	(13+)	84
62ZN 85				10.247	(11+)	85
62ZN 86				10.300		86
62ZN 87				10.316	(13+)	87
62ZN 88				10.375	(14+)	88
62ZN 89				10.636	(12+)	89
62ZN 90				10.726	(14-)	90

62ZN 91				10.800		91
62ZN 92				11.183	(13+)	92
S-2p	=	11.273	(0.001)	-----		
62ZN 93				11.547	(14+)	93
62ZN 94				11.652	(13-)	94
62ZN 95				11.756	(14+)	95
62ZN 96				11.788	(15+)	96
62ZN 97				11.962	(16+)	97
62ZN 98				12.329	(14-)	98
62ZN 99				12.537	(15+)	99
62ZN 100				12.813	(15-)	100

S-n	=	12.890	(0.016)	-----		
62ZN 101				12.993	(15-)	101
62ZN 102				13.156	(16+)	102
62ZN 103				13.237	(16+)	103
62ZN 104				13.400		104
62ZN 105				13.727	(16-)	105
62ZN 106				14.125	(17+)	106
62ZN 107				14.446	(17-)	107
62ZN 108				14.542	(17-)	108
62ZN 109				14.646	(16+)	109
62ZN 110				14.832	(16+)	110

62ZN 111				15.042	(16+)	111
62ZN 112				15.050	(18+)	112
62ZN 113				15.295	(18+)	113
62ZN 114				15.416	(18-)	114
62ZN 115				15.483	(16+)	115
62ZN 116				15.706	(19-)	116
62ZN 117				16.373	(19+)	117
62ZN 118				16.375	(19-)	118
62ZN 119				16.575	(17-)	119
62ZN 120				16.717	(18+)	120

62ZN 121				16.807		121
62ZN 122				16.819	(18+)	122
62ZN 123				17.351	(18+)	123
62ZN 124				17.366	(18-)	124

62ZN 125				17.409	(18-)	125
62ZN 126				17.480	(20-)	126
62ZN 127				17.510	(18-)	127
62ZN 128				17.591	(20+)	128
62ZN 129				18.417	(19-)	129
62ZN 130				18.505	(21-)	130

62ZN 131				18.679	(20+)	131
62ZN 132				19.401	(20-)	132
62ZN 133				19.479	(20+)	133
62ZN 134				19.508	(21+)	134
62ZN 135				19.602		135
62ZN 136				19.680	(22-)	136

S-p = 6.473 (0.001)-----
S-n = 12.890 (0.016)-----
S-2p = 11.273 (0.001)-----
S-2n = 23.136 (0.001)-----
S-alpha= 3.364 (0.001)-----

S+p = -2.668 (0.001)
S+n = -9.117 (0.002)
S+2p = -7.725 (0.004)
S+2n = -20.979 (0.001)
S+alpha = -2.864 (0.002)

gap p = 3.805 (0.002)
gap n = 3.774 (0.016)
gap 2p = 3.547 (0.004)
gap 2n = 2.158 (0.001)
gap alpha = 0.500 (0.003)