

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

Based on ENSDF from Oct 2022, 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

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 = -5.150 (0.041)
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 = 4.620 (0.044)
gap 2n = 3.269 (0.023)
gap alpha = 0.136 (0.023)