

^{60}Zn $Z = 30$ $N = 30$ [link to full NNDC output](#)

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

BE = 514.983 (0.001) MeV

Qbeta+ = 4.171 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
60ZN 1	0.000	0+			1 2.38 M 5
60ZN 2	1.004	2+			2
60ZN 3	2.193	4+			3
60ZN 4				2.559 (2+)	4
S-alpha=	2.692 (0.001)				
60ZN 5				3.035	5
60ZN 6				3.200	6
60ZN 7				3.510 (3+)	7
60ZN 8				3.627	8
60ZN 9				3.710 (4+)	9
60ZN 10	3.808	6+			10
60ZN 11				3.812	11
60ZN 12				3.972 2	12
60ZN 13				4.180 (0+,2+)	13
60ZN 14				4.200 5(+)	14
60ZN 15				4.351 5(+)	15
60ZN 16				4.400 (5-)	16
60ZN 17				4.776 5(+)	17
60ZN 18				4.852 (2+)	18
60ZN 19	4.913	2+			19
S-p =	5.105 (0.001)				
60ZN 20	5.200	2+			20
60ZN 21	5.292	8+			21
60ZN 22				5.300 (7-)	22
60ZN 23				5.337 3(+),4(+)	23
60ZN 24	5.503	2+			24
60ZN 25				5.970	25
60ZN 26				6.360	26
60ZN 27				6.639	27
60ZN 28				6.950 (8+)	28
60ZN 29				7.130	29
60ZN 30				7.372 4	30
60ZN 31	7.380	0+			31
60ZN 32				7.660	32
60ZN 33				7.980 (8+)	33
60ZN 34				8.300 (6+)	34
60ZN 35	8.476	10+			35

S-2p = 8.524 (0.001)			
60ZN	36		8.636 (10+) 36
60ZN	37		8.702 37
60ZN	38		9.620 (8+) 38
60ZN	39		10.756 (10+) 39
60ZN	40		10.800 40

60ZN	41		12.132 (12+) 41
60ZN	42		13.200 42
60ZN	43		13.698 (14+) 43

S-n = 15.030 (0.001)			
60ZN	44		15.437 (16+) 44
60ZN	45		17.323 (18+) 45
60ZN	46		19.353 (20+) 46
60ZN	47		0+X 47
60ZN	48		567.3+X 48
60ZN	49		1575.6+X 49
60ZN	50		3046+X 50

60ZN	51		4967+X 51
60ZN	52		7300+X 52
60ZN	53		0+Y 53
60ZN	54		756.6+Y 54
60ZN	55		2005.0+Y 55
60ZN	56		3697.0+Y 56
60ZN	57		5832.7+Y 57
60ZN	58		8414.4+Y 58

S-p = 5.105 (0.001)-----
S-n = 15.030 (0.001)-----
S-2p = 8.524 (0.001)-----
S-2n = 28.018 (0.050)-----
S-alpha= 2.692 (0.001)-----

S+p = -0.249 (0.038)
S+n = -10.246 (0.016)
S+2p = 0.000 (0.000)
S+2n = -23.136 (0.001)
S+alpha = -2.566 (0.004)

gap p = 4.856 (0.038)
gap n = 4.784 (0.016)
gap 2p = 0.000 (0.000)
gap 2n = 4.882 (0.050)
gap alpha = 0.126 (0.004)