

$^{62}\text{Zn}$        $Z = 30$        $N = 32$       adopted link      ENSDF link

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

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							82	
62ZN 83		9.824	(12+)				83	
62ZN 84		9.960	(13+)				84	
62ZN 85		10.247	(11+)				85	
62ZN 86							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							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	=	12.891	( 0.016)	-----				
-----								
62ZN 101					12.993	(15-)	101	
62ZN 102		13.156	(16+)				102	
62ZN 103		13.237	(16+)				103	
62ZN 104							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							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 = 12.891 ( 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)