

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

Based on ENSDF from Oct 2022, 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 |
| ----- | | | | | | | | | |

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|------|----|--|--|--|-------|-------|----|
| 62ZN | 81 | | | | 9.465 | (12+) | 81 |
| 62ZN | 82 | | | | 9.800 | | 82 |
| 62ZN | 83 | | | | 9.824 | (12+) | 83 |
| 62ZN | 84 | | | | 9.960 | (13+) | 84 |

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)