

^{59}Zn $Z = 30$ $N = 29$ [link to full NNDC output](#)

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

BE = 499.953 (0.001) MeV

Qbeta+ = 9.143 (0.001) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|--------|----------------|-------|-------|---------------|---------------|
| 59ZN 1 | | | 0.000 | 3/2- | 1 178.6 MS 18 |
| 59ZN 2 | | | | 0.540 | 2 |
| 59ZN 3 | | | | 0.894 (5/2-) | 3 |
| 59ZN 4 | | | | 1.320 | 4 |
| 59ZN 5 | | | | 1.397 (7/2-) | 5 |
| 59ZN 6 | | | | 1.814 (7/2-) | 6 |
| 59ZN 7 | | | | 2.333 (9/2-) | 7 |
| 59ZN 8 | | | | 2.609 (9/2-) | 8 |
| S-p = | 2.837 (0.001) | ----- | | | |
| 59ZN 9 | | | | 3.386 (13/2-) | 9 |

S-p = 2.837 (0.001)-----

S-n = 12.988 (0.050)-----

S-2p = 5.710 (0.001)-----

S-2n = 0.000 (0.000)-----

S-alpha= 4.305 (0.001)-----

S+p = 0.000 (0.000)

S+n = -15.030 (0.001)

S+2p = 0.000 (0.000)

S+2n = -25.276 (0.016)

S+alpha = -2.131 (0.037)

gap p = 0.000 (0.000)

gap n = -2.042 (0.050)

gap 2p = 0.000 (0.000)

gap 2n = 0.000 (0.000)

gap alpha = 2.174 (0.037)