

^{72}Ni $Z = 28$ $N = 44$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 613.455 (0.002) MeV

Qbeta- = 5.557 (0.003) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|------|-----------|----|----|------------------|------------|
| 72Ni | 1 0.000 | 0+ | | | 1 1.57 S 5 |
| 72Ni | 2 | | | 1.096 (2+) | 2 |
| 72Ni | 3 | | | 1.941 (4+) | 3 |
| 72Ni | 4 | | | 2.396 (6+) | 4 |
| 72Ni | 5 | | | 3.593 (5-,6-,7-) | 5 |

S-p = 17.145 (0.465)-----

S-n = 6.891 (0.003)-----

S-2p = 31.895 (0.280)-----

S-2n = 11.155 (0.003)-----

S-alpha= 12.736 (0.204)-----

S+p = -12.050 (0.003)

S+n = -3.953 (0.003)

S+2p = -26.109 (0.003)

S+2n = -10.587 (0.222)

S+alpha = -10.502 (0.003)

gap p = 5.095 (0.465)

gap n = 2.938 (0.005)

gap 2p = 5.787 (0.280)

gap 2n = 0.568 (0.222)

gap alpha = 2.234 (0.204)