

^{159}Ta $Z = 73$ $N = 86$ adopted link ENSDF link

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

BE = 1260.667 (0.020) MeV

Qbeta+ = 8.414 (0.026) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|----------|-----------------|------|-------|---------|-------------|
| S-alpha= | -5.681 (0.028) | | | | |
| S-p | -0.374 (0.026) | | | | |
| 159TA | 1 0.000 | 1/2+ | | | 1 0.83 S 18 |
| 159TA | 2 | | 0.064 | 11/2- | 2 0.56 S 6 |
| 159TA | 3 | | 0.638 | 15/2- | 3 |
| 159TA | 4 | | 1.278 | 19/2- | 4 |
| 159TA | 5 | | 1.912 | 23/2- | 5 |

S-p = -0.374 (0.026)-----

S-n = 11.361 (0.159)-----

S-2p = 2.577 (0.023)-----

S-2n = 20.986 (0.151)-----

S-alpha= -5.681 (0.028)-----

S+p = -2.179 (0.151)

S+n = -9.456 (0.058)

S+2p = -0.982 (0.151)

S+2n = -20.482 (0.031)

S+alpha = 6.012 (0.027)

gap p = -2.553 (0.153)

gap n = 1.905 (0.169)

gap 2p = 1.596 (0.153)

gap 2n = 0.504 (0.155)

gap alpha = 0.331 (0.039)