

^{242}Np $Z = 93$ $N = 149$ adopted link ENSDF link

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

BE = 1823.084 (0.200) MeV

Qbeta- = 2.700 (0.200) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|----------|-----------------|----|----|---------------|-----------|
| ----- | | | | | |
| S-alpha= | -4.098 (0.201) | | | | |
| 242NP | 1 | | | 0.000 (1+) | 1 2.2 M 2 |
| 242NP | 2 | | | 0.056 (1-,0-) | 2 |
| 242NP | 3 | | | 0.068 (1-,0-) | 3 |
| 242NP | 4 | | | 0.294 | 4 |
| 242NP | 5 | | | 0.330 (0,1) | 5 |
| 242NP | 6 | | | 0.598 (1,0) | 6 |
| 242NP | 7 | | | 0.641 (1,0) | 7 |

S-p = 6.185 (0.313)-----

S-n = 4.970 (0.224)-----

S-2p = 14.204 (0.312)-----

S-2n = 11.042 (0.201)-----

S-alpha= -4.098 (0.201)-----

S+p = -6.951 (0.200)

S+n = -5.734 (0.200)

S+2p = -12.116 (0.200)

S+2n = -10.332 (0.200)

S+alpha = 5.150 (0.200)

gap p = -0.766 (0.372)

gap n = -0.765 (0.300)

gap 2p = 2.088 (0.371)

gap 2n = 0.710 (0.283)

gap alpha = 1.052 (0.283)