

^{172}Tm $Z = 69$ $N = 103$ adopted link ENSDF link

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

BE = 1391.658 (0.005) MeV

Qbeta- = 1.882 (0.005) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|----------|----------|----------|-------|-----------------|--------------|
| ----- | | | | | |
| S-alpha= | -0.261 | (0.031) | ----- | | |
| 172TM 1 | | | 0.000 | 2- | 1 63.6 H 3 |
| 172TM 2 | | | | 0.063 (3)- | 2 |
| 172TM 3 | | | | 0.146 (4-) | 3 |
| 172TM 4 | | | | 0.240 (3-) | 4 |
| 172TM 5 | | | | 0.250 (5-) | 5 |
| 172TM 6 | | | | 0.330 (4-) | 6 |
| 172TM 7 | | | | 0.374 (6-) | 7 |
| 172TM 8 | | | | 0.407 (1)- | 8 1.07 NS 5 |
| 172TM 9 | | | | 0.442 (5-) | 9 |
| 172TM 10 | | | | 0.446 (2)- | 10 |
| ----- | | | | | |
| 172TM 11 | | | | 0.475 (0)- | 11 |
| 172TM 12 | | | | 0.476 (6+) | 12 132 US 7 |
| 172TM 13 | | | | 0.480 (1-,2-) | 13 |
| 172TM 14 | | | | 0.496 | 14 |
| 172TM 15 | | | | 0.519 (7-) | 15 |
| 172TM 16 | | | | 0.526 (0-,1,2-) | 16 |
| 172TM 17 | | | | 0.535 (1)- | 17 1.22 NS 5 |
| 172TM 18 | | | | 0.575 (6-) | 18 |
| 172TM 19 | 0.610 | 1+ | | | 19 0.3 NS LE |
| 172TM 20 | | | | 0.685 (8-) | 20 |
| ----- | | | | | |
| 172TM 21 | | | | 0.715 (0-,1) | 21 |
| 172TM 22 | | | | 0.720 (7-) | 22 |
| 172TM 23 | | | | 0.797 (0-,1) | 23 |
| 172TM 24 | | | | 0.871 (9-) | 24 |

S-p = 6.945 (0.006)-----
 S-n = 6.234 (0.006)-----
 S-2p = 15.714 (0.050)-----
 S-2n = 13.721 (0.006)-----
 S-alpha= -0.261 (0.031)-----

S+p = -7.467 (0.005)
 S+n = -6.954 (0.007)
 S+2p = -12.775 (0.006)
 S+2n = -12.634 (0.045)
 S+alpha = 1.566 (0.006)

gap p = -0.522 (0.008)
gap n = -0.719 (0.009)
gap 2p = 2.939 (0.051)
gap 2n = 1.087 (0.045)
gap alpha = 1.305 (0.031)