

^{103}Zr $Z = 40$ $N = 63$ adopted link ENSDF link

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

BE = 867.861 (0.009) MeV

Qbeta- = 7.220 (0.010) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|-------|----------|----|----|---------------|-----------|
| 103ZR | 1 | | | 0.000 (5/2-) | 1 1.3 S 1 |
| 103ZR | 2 | | | 0.109 (7/2-) | 2 3 NS LT |
| 103ZR | 3 | | | 0.257 (9/2-) | 3 |
| 103ZR | 4 | | | 0.259 (3/2+) | 4 |
| 103ZR | 5 | | | 0.357 (5/2+) | 5 3 NS LT |
| 103ZR | 6 | | | 0.428 (11/2-) | 6 |
| 103ZR | 7 | | | 0.657 (13/2-) | 7 |
| 103ZR | 8 | | | 0.882 (15/2-) | 8 |
| 103ZR | 9 | | | 1.212 (17/2-) | 9 |
| 103ZR | 10 | | | 1.473 (19/2-) | 10 |
| ----- | | | | | |
| 103ZR | 11 | | | 1.914 (21/2-) | 11 |
| 103ZR | 12 | | | 2.197 (23/2-) | 12 |
| 103ZR | 13 | | | 3.049 (27/2-) | 13 |
| 103ZR | 14 | | | 4.028 (31/2-) | 14 |

S-p = 13.925 (0.010)-----
S-n = 4.299 (0.013)-----
S-2p = 27.062 (0.013)-----
S-2n = 10.791 (0.012)-----
S-alpha= 7.715 (0.010)-----

S+p = -11.291 (0.009)
S+n = -5.980 (0.013)
S+2p = -24.100 (0.013)
S+2n = -9.792 (0.015)
S+alpha = -7.161 (0.013)

gap p = 2.634 (0.014)
gap n = -1.681 (0.018)
gap 2p = 2.962 (0.018)
gap 2n = 0.999 (0.020)
gap alpha = 0.555 (0.017)