

^{117}Ru $Z = 44$ $N = 73$ adopted link ENSDF link

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

BE = 969.411 (0.433) MeV

Qbeta- = 9.407 (0.433) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|-------|----------|----|----|---------|-------------------|
| 117RU | 1 | | | 0.000 | 1 151 MS 3 |
| 117RU | 2 | | | 0.058 | 2 |
| 117RU | 3 | | | 0.103 | 3 |
| 117RU | 4 | | | 0.185 | 4 2.487 US +58-55 |
| 117RU | 5 | | | 0.000 | 5 |

S-p = 15.543 (0.556)-----

S-n = 3.492 (0.433)-----

S-2p = 29.516 (0.554)-----

S-2n = 9.527 (0.434)-----

S-alpha= 9.317 (0.550)-----

S+p = -12.686 (0.434)

S+n = -5.623 (0.493)

S+2p = -26.495 (0.433)

S+2n = -8.769 (0.561)

S+alpha = -9.117 (0.433)

gap p = 2.857 (0.705)

gap n = -2.131 (0.656)

gap 2p = 3.021 (0.703)

gap 2n = 0.758 (0.709)

gap alpha = 0.200 (0.700)