

^{47}Ar $Z = 18$ $N = 29$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 390.636 (0.001) MeV

Qbeta- = 10.346 (0.002) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|--------|----------------|----|----|-----------------|------------|
| 47AR 1 | | | | 0.000 (3/2)- | 1 1.23 S 3 |
| 47AR 2 | | | | 1.130 1/2-,3/2- | 2 |
| 47AR 3 | | | | 1.740 5/2-,7/2- | 3 |
| 47AR 4 | | | | 2.655 | 4 |
| 47AR 5 | | | | 3.335 | 5 |
| S-n = | 3.665 (0.002) | | | | |
| 47AR 6 | | | | 3.985 | 6 |
| 47AR 7 | | | | 4.790 | 7 |
| 47AR 8 | | | | 5.500 7/2+,9/2+ | 8 |
| 47AR 9 | | | | 6.200 | 9 |

S-p = 18.796 (0.209)-----

S-n = 3.665 (0.002)-----

S-2p = 35.955 (1.035)-----

S-2n = 11.738 (0.001)-----

S-alpha= 15.596 (0.005)-----

S+p = -14.207 (0.001)

S+n = -4.986 (0.307)

S+2p = -30.511 (0.001)

S+2n = 0.000 (0.000)

S+alpha = -13.391 (0.001)

gap p = 4.589 (0.209)

gap n = -1.322 (0.307)

gap 2p = 5.443 (1.035)

gap 2n = 0.000 (0.000)

gap alpha = 2.205 (0.005)