

$^{47}\text{Ar}$        $Z = 18$        $N = 29$       adopted link      ENSDF link

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

BE = 390.637 ( 0.001) MeV

Qbeta- = 10.345 ( 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     | = 3.667 ( 0.003) |    |    |                 |            |
| 47AR 6  |                  |    |    | 3.985           | 6          |
| 47AR 7  |                  |    |    | 4.790           | 7          |
| 47AR 8  |                  |    |    | 5.500 7/2+,9/2+ | 8          |
| 47AR 9  |                  |    |    | 6.200           | 9          |
| 47AR 10 |                  |    |    | 0.000           | 10         |

S-p = 18.921 ( 0.097)-----  
 S-n = 3.667 ( 0.003)-----  
 S-2p = 36.622 ( 0.315)-----  
 S-2n = 11.739 ( 0.001)-----  
 S-alpha= 15.597 ( 0.005)-----

S+p = -14.206 ( 0.001)  
 S+n = -5.059 ( 0.017)  
 S+2p = -30.511 ( 0.001)  
 S+2n = -7.831 ( 0.392)  
 S+alpha = -13.390 ( 0.001)

gap p = 4.715 ( 0.097)  
 gap n = -1.392 ( 0.017)  
 gap 2p = 6.111 ( 0.315)  
 gap 2n = 3.908 ( 0.392)  
 gap alpha = 2.207 ( 0.005)