

^{45}Ar $Z = 18$ $N = 27$ [link to full NNDC output](#)

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

BE = 378.898 (0.000) MeV

Qbeta- = 6.845 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
45AR 1				0.000	5/2-,7/2- 1 21.48 S 15
45AR 2				0.542	1/2-,3/2- 2 0.34 NS +32-15
45AR 3				1.340	3
45AR 4				1.416	1/2-,3/2- 4
45AR 5				1.660	5
45AR 6				1.735	6
45AR 7				1.770	7
45AR 8				1.876	1/2-,3/2- 8
45AR 9				1.911	9
45AR 10				2.420	10

45AR 11				2.510	1/2-,3/2- 11
45AR 12				2.757	12
45AR 13				3.230	13
45AR 14				3.295	14
45AR 15				3.718	15
45AR 16				3.950	16
45AR 17				4.280	17
45AR 18				4.326	18
45AR 19				4.800	19

S-n =	5.169 (0.002)				
45AR 20				5.773	20

S-p = 16.675 (0.136)-----
 S-n = 5.169 (0.002)-----
 S-2p = 32.153 (0.005)-----
 S-2n = 13.904 (0.005)-----
 S-alpha= 13.187 (0.004)-----

S+p = -12.932 (0.001)
 S+n = -8.073 (0.001)
 S+2p = -27.152 (0.002)
 S+2n = -11.738 (0.001)
 S+alpha = -13.954 (0.001)

gap p = 3.743 (0.136)
 gap n = -2.905 (0.002)
 gap 2p = 5.002 (0.005)

gap 2n = 2.165 (0.005)
gap alpha = -0.767 (0.004)