

^{31}Ar $Z = 18$ $N = 13$ adopted link ENSDF link

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

BE = 224.812 (-0.186) MeV

Qbeta+ = 18.351 (0.186) MeV

	Energy T	J+	J-	J-other	T1/2
31AR 1	0.000	5/2+			1 15.0 MS 3
S-p =	0.647 (-0.188)				
S-2p =	0.167 (-0.186)				
31AR 2				0.950	2
31AR 3				1.580	3
31AR 4				2.120	4
31AR 5				2.620	5
31AR 6				3.560	6
31AR 7				4.200	7

S-p = 0.647 (-0.188)-----
 S-n = 18.832 (-0.259)-----
 S-2p = 0.167 (-0.186)-----
 S-2n = 42.808 (-0.473)-----
 S-alpha= 8.596 (-0.446)-----

S+p = 3.372 (-0.427)
 S+n = -21.588 (-0.186)
 S+2p = 5.131 (-0.438)
 S+2n = -36.844 (-0.186)
 S+alpha = -8.552 (-0.281)

gap p = 4.019 (0.466)
 gap n = -2.756 (0.319)
 gap 2p = 5.298 (0.476)
 gap 2n = 5.964 (0.508)
 gap alpha = 0.044 (0.527)