

^{34}Ar $Z = 18$ $N = 16$ adopted link ENSDF link

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

BE = 278.721 (0.000) MeV

Qbeta+ = 6.062 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
34AR 1	0.000	0+			1 843.8 MS 4
34AR 2	2.091	2+			2 319 FS 42
34AR 3	3.288	2+			3 194 FS 35
34AR 4	3.873	0+			4 187 FS GT
34AR 5				4.050	5
34AR 6				4.128	6 208 FS LT
34AR 7			4.513 3-		7 201 FS 38
34AR 8				4.631	8

S-p =	4.664 (0.000)				
34AR 9				4.865	9
34AR 10	4.967	0+			10

34AR 11				5.255	11
34AR 12				5.307 (5-)	12
34AR 13				5.542	13
34AR 14	5.620	2+			14
34AR 15	5.909	0+			15
34AR 16	6.074	2+			16
34AR 17	6.525	2+			17

S-alpha=	6.744 (0.000)				
34AR 18				6.794	18

S-2p =	6.941 (0.000)				
34AR 19				6.990	19
34AR 20	7.322	2+			20

34AR 21				7.499 (2+)	21
34AR 22				7.925	22
34AR 23				0.000	23

S-p = 4.664 (0.000)-----
 S-n = 17.065 (0.000)-----
 S-2p = 6.941 (0.000)-----
 S-2n = 32.321 (0.002)-----
 S-alpha= 6.744 (0.000)-----

S+p = -0.084 (0.001)
 S+n = -12.740 (0.001)
 S+2p = -2.651 (0.040)
 S+2n = -27.996 (0.000)

S+alpha = -6.105 (0.000)

gap p = 4.580 (0.001)

gap n = 4.325 (0.001)

gap 2p = 4.290 (0.040)

gap 2n = 4.325 (0.002)

gap alpha = 0.639 (0.000)