

^{231}Ac $Z = 89$ $N = 142$ adopted link ENSDF link

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

BE = 1759.083 (0.013) MeV

Qbeta- = 1.947 (0.013) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-3.656	(0.014)	-----		
231AC	1	0.000	1/2+		1 7.5 M 1
231AC	2			0.005 (1/2+,3/2+,5/2+	2)
231AC	3			0.018 (3/2-)	3
231AC	4			0.038 (3/2-)	4
231AC	5			0.038 (3/2+)	5
231AC	6			0.062 (3/2+)	6
231AC	7			0.069 (5/2+)	7
231AC	8			0.075 (5/2+)	8

S-p = 6.042 (0.017)-----

S-n = 6.147 (0.021)-----

S-2p = 14.483 (0.014)-----

S-2n = 11.070 (0.018)-----

S-alpha= -3.656 (0.014)-----

S+p = -7.605 (0.013)

S+n = -4.680 (0.018)

S+2p = -12.851 (0.013)

S+2n = -10.597 (0.018)

S+alpha = 4.101 (0.019)

gap p = -1.563 (0.021)

gap n = 1.467 (0.028)

gap 2p = 1.632 (0.019)

gap 2n = 0.472 (0.026)

gap alpha = 0.446 (0.024)