

^{139}I $Z = 53$ $N = 86$ adopted link ENSDF link

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

BE = 1148.920 (0.004) MeV

Qbeta- = 7.174 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
139I	1			0.000 (7/2+)	1 2.280 S 11
139I	2			0.209 (5/2+)	2
139I	3			0.419 (9/2+)	3
139I	4			0.435 (11/2+)	4
139I	5			0.816 (13/2+)	5
139I	6			0.929 (15/2+)	6

S-alpha=	1.206 (0.005)				
139I	7			1.281 (17/2+)	7
139I	8			1.564 (19/2+)	8
139I	9			1.762 (21/2+)	9
139I	10			2.036 (23/2+)	10

139I	11			2.221 (17/2:21/2)	11
139I	12			2.316 (19/2:23/2)	12
139I	13			2.392 (19/2:23/2)	13
139I	14			2.491 (25/2+)	14
139I	15			2.688 (27/2+)	15
139I	16			3.332	16

S-p = 10.064 (0.006)-----

S-n = 4.562 (0.007)-----

S-2p = 22.989 (0.052)-----

S-2n = 8.258 (0.009)-----

S-alpha= 1.206 (0.005)-----

S+p = -11.804 (0.005)

S+n = -3.206 (0.013)

S+2p = -20.584 (0.010)

S+2n = -7.598 (0.016)

S+alpha = -1.629 (0.009)

gap p = -1.740 (0.007)

gap n = 1.356 (0.015)

gap 2p = 2.404 (0.053)

gap 2n = 0.659 (0.019)

gap alpha = -0.424 (0.010)