

^{138}I $Z = 53$ $N = 85$ adopted link ENSDF link

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

BE = 1144.358 (0.006) MeV

Qbeta- = 7.992 (0.007) MeV

	Energy T	J+	J-	J-other	T1/2
138I	1			0.000 (1-)	1 6.26 S 3
138I	2			0.068 (3-)	2 1.26 US 16
138I	3			0.186 (4-)	3
138I	4			0.222 (4-)	4
138I	5			0.229 (5-)	5
138I	6			0.297 (6-)	6
138I	7			0.363 (7-)	7

S-alpha=	0.386 (0.007)				
138I	8			0.723 (8-)	8
138I	9			0.994 (9-)	9
138I	10			1.304 (10-)	10

138I	11			1.577 (11-)	11
138I	12			1.829 (12-)	12

S-p = 9.965 (0.006)-----
 S-n = 3.695 (0.010)-----
 S-2p = 22.051 (0.008)-----
 S-2n = 8.577 (0.015)-----
 S-alpha= 0.386 (0.007)-----

S+p = -10.954 (0.006)
 S+n = -4.562 (0.007)
 S+2p = -19.648 (0.010)
 S+2n = -7.769 (0.013)
 S+alpha = -0.959 (0.009)

gap p = -0.988 (0.009)
 gap n = -0.867 (0.013)
 gap 2p = 2.404 (0.013)
 gap 2n = 0.809 (0.020)
 gap alpha = -0.573 (0.011)