

$^{135}\text{I}$        $Z = 53$        $N = 82$       adopted link      ENSDF link

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

BE = 1131.943 ( 0.002) MeV

Qbeta- = 2.634 ( 0.004) MeV

	Energy T	J+	J-	J-other	T1/2
135I 1	0.000	7/2+			1 6.58 H 3
135I 2				0.604 (5/2)+	2
135I 3				0.871 (5/2)+	3
135I 4				1.010	4
135I 5				1.133 (11/2+)	5
135I 6				1.184 (9/2+)	6
135I 7				1.421 (15/2+)	7
135I 8				1.517	8
135I 9				1.710	9
135I 10				1.857	10
135I 11				1.994 (17/2+)	11
135I 12				2.027	12
135I 13				2.069	13
135I 14				2.157	14
135I 15				2.313	15
135I 16				2.350	16
135I 17				2.421	17
135I 18				2.874	18
135I 19				3.046 (7/2+,9/2+)	19
135I 20				3.357	20
135I 21				3.655 (19/2-)	21
135I 22				3.690 (23/2-)	22
135I 23				3.766 (21/2-)	23
S-alpha=	4.223 ( 0.003)				
135I 24				4.242 (19/2+)	24
135I 25				4.314 (7/2+,9/2+)	25
135I 26				4.380 (21/2+)	26
135I 27				4.464 (7/2-,9/2-)	27
135I 28				4.773 (5/2-,7/2-,9/2-)	28
135I 29				4.776 (23/2+)	29
135I 30				4.779	30
135I 31				5.329 (25/2+)	31
135I 32				5.578 (27/2+)	32
135I 33				5.616 (23/2-)	33
135I 34				5.849 (25/2-)	34

S-p = 8.534 ( 0.003)-----  
S-n = 7.807 ( 0.005)-----  
S-2p = 19.434 ( 0.004)-----  
S-2n = 14.064 ( 0.006)-----  
S-alpha= 4.223 ( 0.003)-----

S+p = -9.939 ( 0.002)  
S+n = -3.837 ( 0.014)  
S+2p = -17.344 ( 0.002)  
S+2n = -8.720 ( 0.009)  
S+alpha = 0.653 ( 0.004)

gap p = -1.404 ( 0.004)  
gap n = 3.970 ( 0.015)  
gap 2p = 2.089 ( 0.004)  
gap 2n = 5.345 ( 0.011)  
gap alpha = 4.876 ( 0.005)