

^{111}I $Z = 53$ $N = 58$ adopted link ENSDF link

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

BE = 919.406 (0.005) MeV

Qbeta+ = 8.634 (0.008) MeV

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

S-alpha=	-3.274 (0.006)				
111I	1			0.000 (5/2+)	1 2.5 S 2
S-p	= 0.013 (0.008)				
111I	2			0.037 7/2(+)	2
111I	3			0.619 9/2(+)	3
111I	4			0.680 11/2(+)	4
111I	5		1.095 11/2-		5
111I	6			1.496 (13/2-)	6
111I	7		1.650 15/2-		7
111I	8		2.341 19/2-		8
111I	9			2.519 (15/2-)	9
111I	10			2.988 (19/2-)	10

111I	11		3.031 23/2-		11
111I	12			3.049	12
S-2p	= 3.281 (0.007)				
111I	13			3.444 (23/2-)	13
111I	14			3.597	14
111I	15		3.778 27/2-		15
111I	16			4.001 25/2(+)	16
111I	17			4.149 (27/2-)	17
111I	18			4.159	18
111I	19			4.222	19
111I	20		4.433 31/2-		20

111I	21			4.511 (29/2+)	21
111I	22		4.549 31/2-		22
111I	23			5.023 (31/2-)	23
111I	24			5.114	24
111I	25			5.177 (33/2+)	25
111I	26		5.199 35/2-		26
111I	27		5.398 35/2-		27
111I	28			5.968 (37/2+)	28
111I	29			6.055	29
111I	30		6.247 39/2-		30

111I	31			6.878 (41/2+)	31
111I	32		7.076 43/2-		32
111I	33			7.847 (45/2+)	33
111I	34			8.085 (47/2-)	34

111I	35				8.996	(49/2+)	35
111I	36				9.157	(51/2-)	36

S-p = 0.013 (0.008)-----
 S-n = 12.557 (0.062)-----
 S-2p = 3.281 (0.007)-----
 S-2n = 23.424 (0.008)-----
 S-alpha= -3.274 (0.006)-----

S+p = -2.362 (0.010)
 S+n = -10.181 (0.011)
 S+2p = -1.389 (0.010)
 S+2n = -22.308 (0.009)
 S+alpha = 2.861 (0.115)

gap p = -2.349 (0.013)
 gap n = 2.376 (0.063)
 gap 2p = 1.892 (0.012)
 gap 2n = 1.116 (0.012)
 gap alpha = -0.413 (0.115)