

^{153}Lu $Z = 71$ $N = 82$ adopted link ENSDF link

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

BE = 1217.740 (0.150) MeV

Qbeta+ = 8.843 (0.214) MeV

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

S-alpha=	-3.151	(0.211)	-----		
S-p	= -0.606	(0.212)	-----		
153LU	1		0.000	11/2-	1 0.9 S 2
153LU	2 0.080	1/2+			2
153LU	3			1.432 (15/2-)	3
153LU	4			1.606 (15/2+)	4
153LU	5			1.823 (19/2+)	5
153LU	6			2.147 (19/2-)	6

S-2p	= 2.182	(0.151)	-----		
153LU	7			2.212 (23/2+)	7
153LU	8			2.482 (21/2-)	8
153LU	9			2.503 (23/2-)	9 0.1 US GT
153LU	10			2.633 (27/2-)	10 15 US 3

S-p = -0.606 (0.212)-----
 S-n = 12.989 (0.214)-----
 S-2p = 2.182 (0.151)-----
 S-2n = 24.236 (0.337)-----
 S-alpha= -3.151 (0.211)-----

S+p = -1.631 (0.343)
 S+n = -9.332 (0.215)
 S+2p = -0.250 (0.344)
 S+2n = -20.312 (0.151)
 S+alpha = 6.354 (0.212)

gap p = -2.237 (0.403)
 gap n = 3.657 (0.303)
 gap 2p = 1.932 (0.376)
 gap 2n = 3.924 (0.370)
 gap alpha = 3.203 (0.300)