

^{201}Tl $Z = 81$ $N = 120$ adopted link ENSDF link

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

BE = 1586.146 (0.014) MeV

Qbeta+ = 0.482 (0.014) MeV

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

S-alpha=	-1.534	(0.014)	-----		
201TL 1	0.000	1/2+			1 3.0421 D 17
201TL 2	0.331	3/2+			2 70 PS 20
201TL 3	0.693	5/2+			3
201TL 4				0.919 (9/2-)	4 2.01 MS 7
201TL 5				1.099 3/2+,5/2+	5
201TL 6	1.135	7/2+			6
201TL 7				1.157 3/2+,5/2+	7
201TL 8				1.238 (11/2-)	8
201TL 9	1.239	3/2+			9
201TL 10				1.277 3/2+,5/2+	10

201TL 11				1.290 7/2+,9/2+	11
201TL 12				1.330 3/2+,5/2+	12
201TL 13				1.401 3/2+,5/2+	13
201TL 14				1.413 (11/2+)	14
201TL 15				1.419 (11/2-)	15
201TL 16	1.420	7/2+			16
201TL 17				1.446 (5/2)+	17
201TL 18	1.480	5/2+			18
201TL 19				1.551 1/2,3/2,5/2+	19
201TL 20				1.571 (13/2-)	20

201TL 21				1.575 7/2+,9/2+	21
201TL 22				1.617 1/2,3/2,5/2+	22
201TL 23				1.639 3/2+,5/2+	23
201TL 24				1.672 (5/2)+	24
201TL 25				1.712 1/2+,3/2,5/2,7/2	252+
201TL 26				1.725 (7/2,9/2)	26
201TL 27				1.755 3/2,5/2+	27
201TL 28				1.763 (7/2,9/2)	28
201TL 29				1.834 3/2+,5/2+	29
201TL 30				1.908 (13/2,15/2-)	30

201TL 31				1.913	31
201TL 32				1.940 (7/2,9/2)	32
201TL 33				1.962 (15/2-)	33
201TL 34				1.988	34
201TL 35				2.014 (13/2-,15/2-)	35 2.9 NS +19-5
201TL 36				2.040 (11/2,13/2,15/2)	36

201TL 37				2.103	(9/2)	37
201TL 38				2.145	(9/2)	38
201TL 39				2.182		39
201TL 40				2.196	(15/2+)	40

201TL 41				2.254	(15/2-)	41
201TL 42				2.271		42
201TL 43				2.343		43
201TL 44				2.379	(15/2+)	44
201TL 45				2.442		45
201TL 46				2.534	(9/2)	46
201TL 47				2.622	(15/2+)	47
201TL 48				2.669	(5/2)	48
201TL 49				2.747		49
201TL 50				2.762	(7/2,9/2)	50

201TL 51				2.853	(11/2-)	51
201TL 52				2.899	(15/2+)	52
201TL 53				2.976	(15/2+)	53
201TL 54				3.030	(15/2+,17/2+)	54
201TL 55				3.083	(9/2,11/2)	55
201TL 56				3.133		56
201TL 57				3.201		57
201TL 58				3.303	(9/2,11/2)	58
201TL 59				3.362	(15/2+)	59
201TL 60				3.401	(17/2+)	60

201TL 61				3.441	(9/2)	61
201TL 62				3.499	(15/2)	62
201TL 63				3.552	(15/2)	63
201TL 64				3.615	(17/2-,19/2-)	64
201TL 65				3.648	(15/2+)	65
201TL 66				3.674	(17/2,19/2-)	66
201TL 67				3.727		67

S-p = 4.967 (0.014)-----
S-n = 8.205 (0.015)-----
S-2p = 12.665 (0.014)-----
S-2n = 15.264 (0.031)-----
S-alpha= -1.534 (0.014)-----

S+p = -6.049 (0.015)
S+n = -6.871 (0.014)
S+2p = -8.922 (0.019)
S+2n = -14.723 (0.014)
S+alpha = 3.690 (0.015)

gap p = -1.082 (0.020)
gap n = 1.334 (0.021)

gap 2p = 3.743 (0.024)
gap 2n = 0.541 (0.034)
gap alpha = 2.156 (0.021)