

^{202}Tl $Z = 81$ $N = 121$ adopted link ENSDF link

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

BE = 1593.017 (0.002) MeV

Qbeta+ = 1.365 (0.002) MeV

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

S-alpha=	-1.175	(0.002)	-----					
202TL 1			0.000	2-				1 12.31 D 8
202TL 2					0.186	0-,1-		2
202TL 3					0.190			3
202TL 4					0.312	(0-,1-)		4
202TL 5					0.348	(2-,3-,4-)		5
202TL 6					0.402			6
202TL 7					0.480	(0-,1-,2-)		7
202TL 8			0.490	4-				8
202TL 9					0.511			9
202TL 10					0.627			10

202TL 11					0.702			11
202TL 12					0.720			12
202TL 13					0.810			13
202TL 14					0.923			14
202TL 15	0.950	7+						15 591 US 3
202TL 16					1.049			16
202TL 17					1.079			17
202TL 18	1.099	6+						18
202TL 19					1.105			19
202TL 20	1.340	8+						20

202TL 21					1.358			21
202TL 22					1.383			22
202TL 23	1.552	8+						23
202TL 24					1.580	7+,8+,9+		24
202TL 25					1.620	2-,3-,4-		25
202TL 26					1.676	8+,9+		26
202TL 27					1.732			27
202TL 28					1.849			28
202TL 29					1.940			29
202TL 30					1.968			30

202TL 31					2.005			31
202TL 32					2.045			32
202TL 33					2.150	(12-)		33
202TL 34					2.340	7+,8+,9+		34

S-p = 5.607 (0.002)-----
S-n = 6.871 (0.014)-----
S-2p = 13.318 (0.027)-----
S-2n = 15.076 (0.006)-----
S-alpha= -1.175 (0.002)-----

S+p = -6.095 (0.007)
S+n = -7.852 (0.002)
S+2p = -9.243 (0.009)
S+2n = -14.508 (0.002)
S+alpha = 3.527 (0.008)

gap p = -0.488 (0.007)
gap n = -0.981 (0.014)
gap 2p = 4.075 (0.028)
gap 2n = 0.568 (0.006)
gap alpha = 2.352 (0.008)