

^{208}Tl $Z = 81$ $N = 127$ adopted link ENSDF link

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

BE = 1632.214 (0.002) MeV

Qbeta- = 4.998 (0.002) MeV

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

S-alpha=	-1.153	(0.204)	-----		
208TL 1	0.000	5+			1 3.053 M 4
208TL 2	0.040	4+			2 6.5 PS 8
208TL 3	0.328	5+			3 0.1 PS GT
208TL 4				0.473 (4+)	4
208TL 5				0.493 (3)+	5
208TL 6				0.617	6
208TL 7				0.620 (6+)	7
208TL 8				0.698	8
208TL 9				0.760	9
208TL 10				0.789	10

208TL 11				0.800 (1-)	11
208TL 12				0.803	12
208TL 13				1.135	13
208TL 14				1.199	14
208TL 15				1.245	15
208TL 16				1.322	16
208TL 17				1.362	17
208TL 18				1.410	18
208TL 19				1.474	19
208TL 20				1.525	20

208TL 21				1.637	21
208TL 22				1.652	22
208TL 23				1.696	23
208TL 24				1.728	24
208TL 25				1.775	25
208TL 26				1.851	26
208TL 27				1.912	27
208TL 28				1.970	28
208TL 29				2.013	29
208TL 30				2.093	30

208TL 31				2.197	31
208TL 32				2.632	32
208TL 33				2.700 (1-)	33
208TL 34				2.720	34
208TL 35				2.794	35
208TL 36				2.861	36

208TL 37				2.917		37
208TL 38				3.053		38
208TL 39				3.194		39
208TL 40				3.255		40

208TL 41				3.325		41
208TL 42				3.400		42
208TL 43				3.482		43
S-n	=	3.787	(0.006)	-----		
208TL 44				4.000		44
208TL 45				4.285		45
208TL 46				5.100	(0)-	46
208TL 47				5.800	(2+)	47
208TL 48				7.000	(0)+	48
S-p	=	7.552	(0.030)	-----		
208TL 49				8.300	(2+,3+)	49

S-p = 7.552 (0.030)-----
S-n = 3.787 (0.006)-----
S-2p = 17.174 (0.206)-----
S-2n = 10.640 (0.002)-----
S-alpha= -1.153 (0.204)-----

S+p = -8.153 (0.003)
S+n = -4.966 (0.006)
S+2p = -12.620 (0.002)
S+2n = -8.639 (0.012)
S+alpha = 6.207 (0.003)

gap p = -0.602 (0.030)
gap n = -1.179 (0.009)
gap 2p = 4.555 (0.206)
gap 2n = 2.000 (0.012)
gap alpha = 5.054 (0.204)