

^{206}Tl $Z = 81$ $N = 125$ adopted link ENSDF link

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

BE = 1621.575 (0.001) MeV

Qbeta- = 1.532 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2	
206TL	1		0.000	0-		1 4.202 M 11
206TL	2		0.266	2-		2 2.29 NS 14
206TL	3		0.305	1-		3 4.2 PS 14
S-alpha= 0.325 (0.023)						
206TL	4		0.635	2-		4 4.0 PS 9
206TL	5		0.649	1-		5
206TL	6				0.801 (3)-	6 2.4 PS 7
206TL	7				0.940	7
206TL	8		0.952	4-		8 42 PS 10
206TL	9				0.998 2-,3-	9
206TL	10				1.080 (1-,2)	10
206TL	11				1.117 1-,2-	11
206TL	12				1.206	12
206TL	13				1.257	13
206TL	14				1.333 1-,2-	14
206TL	15				1.360 (0,1,2)-	15
206TL	16				1.400	16
206TL	17				1.405 (5)+	17 78 NS 1
206TL	18				1.453	18
206TL	19				1.473	19
206TL	20				1.490 (1,2,3)-	20
206TL	21				1.622 (7)+	21 10.1 NS 6
206TL	22				1.631 (2-)	22
206TL	23				1.649 (1,2)-	23
206TL	24				1.711 (5,6)+	24
206TL	25				1.800 (3+)	25
206TL	26				1.844 1-,2-	26
206TL	27				1.983 (5)+	27
206TL	28				1.988	28
206TL	29				2.058 2-,3-	29
206TL	30				2.079 (8+)	30
206TL	31				2.126 5+,6+	31
206TL	32				2.170	32
206TL	33				2.217 2-,3-,4-	33
206TL	34				2.243 (5+,6+,7+)	34
206TL	35				2.264 5+,6+	35
206TL	36				2.326 (8+,9+)	36

206TL 37				2.347		37
206TL 38				2.411	(5+,6+)	38
206TL 39				2.442		39
206TL 40				2.462	2-,3-	40

206TL 41				2.495	1-,2-	41
206TL 42				2.530		42
206TL 43				2.581	(4+,5+)	43
206TL 44				2.594	(4+,5+)	44
206TL 45				2.617	(4+,5+)	45
206TL 46				2.643	(12-)	46 3.74 M 3
206TL 47				2.646	(4+,5+)	47
206TL 48				2.708	(1,2,3)-	48
206TL 49				2.728		49
206TL 50				2.807	(1,2,3)-	50

206TL 51				2.828		51
206TL 52				2.868	3+,4+,5+	52
206TL 53				2.896		53
206TL 54				2.936	(5+,6+,7+)	54
206TL 55				2.977		55
206TL 56				3.014		56
206TL 57				3.024		57
206TL 58				3.046	(0-,1-,2-)	58
206TL 59				3.106		59
206TL 60				3.123		60

206TL 61				3.181		61
206TL 62				3.225		62
206TL 63				3.278	(3+,4+,5+)	63
206TL 64				3.330		64
206TL 65				3.363		65
206TL 66				3.424		66
206TL 67				3.452		67
206TL 68				3.538		68
206TL 69				3.564		69
206TL 70				3.638		70

206TL 71				3.717		71
206TL 72				3.784		72
206TL 73				3.874	(3-,4-,5-)	73
206TL 74				3.900		74
206TL 75				3.938		75
206TL 76				3.976		76
206TL 77				4.126		77
206TL 78				4.200		78
206TL 79				4.238	(3+)	79
206TL 80				4.273	(2+)	80

206TL 81				4.426	(1+)	81

206TL	82				4.491	(0+)	82
206TL	83				4.555		83
206TL	84				4.622		84
206TL	85				4.680		85
206TL	86				4.739		86
206TL	87				4.775		87
206TL	88				4.879		88
206TL	89				4.904		89
206TL	90				4.941		90

206TL	91				5.015		91
206TL	92				5.055		92
206TL	93				5.091		93
206TL	94				5.140		94

S-p = 7.255 (0.004)-----
 S-n = 6.504 (0.002)-----
 S-2p = 16.503 (0.204)-----
 S-2n = 14.050 (0.002)-----
 S-alpha= 0.325 (0.023)-----

S+p = -7.488 (0.002)
 S+n = -6.853 (0.006)
 S+2p = -11.195 (0.003)
 S+2n = -10.640 (0.002)
 S+alpha = 5.036 (0.002)

gap p = -0.233 (0.004)
 gap n = -0.349 (0.006)
 gap 2p = 5.308 (0.204)
 gap 2n = 3.410 (0.003)
 gap alpha = 5.361 (0.023)