

^{207}Tl $Z = 81$ $N = 126$ adopted link ENSDF link

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

BE = 1628.427 (0.005) MeV

Qbeta- = 1.417 (0.006) MeV

	Energy T	J+	J-	J-other	T1/2
207TL 1	0.000	1/2+			1 4.77 M 3
S-alpha=	0.316 (0.006)				
207TL 2	0.351	3/2+			2 30 PS 7
207TL 3			1.348	11/2-	3 1.33 S 11
207TL 4	1.683	5/2+			4
207TL 5				2.676 (5/2+)	5
207TL 6				2.709	6
207TL 7				2.912 (7/2-,9/2)	7
207TL 8				2.985 (9/2)+	8
207TL 9				3.104 (9/2)+	9
207TL 10				3.143 (7/2-,9/2,11/2)	10
207TL 11				3.210	11
207TL 12				3.273 (7/2,9/2+)	12
207TL 13				3.296 (7/2-,9/2)	13
207TL 14				3.336 (7/2-,9/2)	14
207TL 15				3.358 (7/2-,9/2,11/2)	15
207TL 16	3.474	7/2+			16
207TL 17				3.558	17
207TL 18				3.592 (7/2,9/2+)	18
207TL 19				3.791	19
207TL 20				3.813	20
207TL 21				3.856	21
207TL 22				3.904	22
207TL 23				3.958	23
207TL 24				3.987 7/2+,9/2+	24
207TL 25				4.078	25
207TL 26				4.103	26
207TL 27				4.289 (5/2+)	27
207TL 28				4.293	28
207TL 29	4.337	1/2+			29
207TL 30				4.418	30
207TL 31				4.432	31
207TL 32				4.503	32
207TL 33	4.521	1/2+			33
207TL 34				4.589 (3/2+,5/2+)	34
207TL 35	4.696	5/2+			35
207TL 36				4.737	36

207TL 37		4.888	7/2+				37
207TL 38					4.920		38
207TL 39					4.982	(7/2+,9/2+)	39
207TL 40					5.037	(5/2+)	40

207TL 41					5.800	(7/2+,9/2+)	41
207TL 42					6.200		42
S-p	=	7.378	(0.021)	-----			
S-n	=	6.853	(0.006)	-----			
207TL 43					7.400		43
207TL 44					7.750		44
207TL 45					8.050	(7/2+,9/2+)	45
S-p	=	7.378	(0.021)	-----			
S-n	=	6.853	(0.006)	-----			
S-2p	=	17.127	(0.205)	-----			
S-2n	=	13.356	(0.006)	-----			
S-alpha	=	0.316	(0.006)	-----			
S+p	=	-8.003	(0.006)				
S+n	=	-3.787	(0.006)				
S+2p	=	-11.802	(0.006)				
S+2n	=	-8.753	(0.008)				
S+alpha	=	6.750	(0.008)				
gap p	=	-0.626	(0.022)				
gap n	=	3.065	(0.008)				
gap 2p	=	5.325	(0.205)				
gap 2n	=	4.603	(0.010)				
gap alpha	=	7.066	(0.010)				