

$^{187}\text{Tl}$        $Z = 81$        $N = 106$       adopted link      ENSDF link

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

BE = 1468.411 ( 0.008) MeV

Qbeta+ = 5.674 ( 0.015) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-5.322	( 0.012)	-----		
187TL 1				0.000 (1/2+)	1 51 S AP
187TL 2				0.299 (3/2+)	2
187TL 3				0.334 (9/2-)	3 15.60 S 12
187TL 4				0.678 (GE5/2)	4
187TL 5				0.728 (11/2-)	5
187TL 6				0.748 (5/2+)	6
187TL 7				0.872	7
187TL 8				0.951 (11/2-)	8
187TL 9				0.996 (13/2-)	9 2.0 PS 2
187TL 10				1.060 (13/2+)	10 0.69 NS 14
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187TL 11				1.073 (GE7/2)	11
S-p	=	1.194	( 0.014)	-----	
187TL 12				1.205 (GE9/2)	12
187TL 13				1.261 (13/2-)	13
187TL 14				1.375	14
187TL 15				1.426 (15/2-)	15
187TL 16				1.433 (15/2-)	16
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S-p	=	1.194	( 0.014)	-----	
S-n	=	10.633	( 0.022)	-----	
S-2p	=	5.164	( 0.008)	-----	
S-2n	=	18.829	( 0.022)	-----	
S-alpha=	-5.322	( 0.012)	-----		
S+p	=	-2.656	( 0.013)		
S+n	=	-7.963	( 0.031)		
S+2p	=	-2.198	( 0.022)		
S+2n	=	-18.314	( 0.012)		
S+alpha	=	6.780	( 0.011)		
gap p	=	-1.461	( 0.019)		
gap n	=	2.670	( 0.038)		
gap 2p	=	2.966	( 0.024)		
gap 2n	=	0.515	( 0.025)		
gap alpha	=	1.458	( 0.017)		