

$^{173}\text{Tm}$        $Z = 69$        $N = 104$       adopted link      ENSDF link

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

BE = 1398.612 ( 0.004) MeV

Qbeta- = 1.295 ( 0.004) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-0.115	( 0.021)	-----		
173TM	1			0.000 (1/2+)	1 8.24 H 8
173TM	2			0.002 (3/2+)	2
173TM	3			0.119 (5/2+)	3
173TM	4			0.125 (7/2+)	4
173TM	5			0.318 (7/2-)	5 10 US 3
173TM	6			0.340	6
173TM	7			0.412 (9/2-)	7
173TM	8			0.526 (11/2-)	8
173TM	9			0.609 (1/2-)	9
173TM	10			0.669 (13/2-)	10
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173TM	11			0.750	11
173TM	12			0.818	12
173TM	13			0.856	13
173TM	14			0.983	14
173TM	15			1.137	15
173TM	16			1.187	16
173TM	17			1.213 (9/2-)	17
173TM	18			1.243	18
173TM	19			1.336	19
173TM	20			1.362	20
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173TM	21			1.414	21
173TM	22			1.439	22
173TM	23			1.514	23
173TM	24			1.588	24
173TM	25			1.672	25
173TM	26			1.703	26
173TM	27			1.901	27
173TM	28			2.006	28
173TM	29			2.039	29
173TM	30			2.069	30
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173TM	31			2.096	31
173TM	32			2.127	32
173TM	33			2.151	33
173TM	34			2.192	34

S-p = 7.062 ( 0.006)-----  
S-n = 6.954 ( 0.007)-----  
S-2p = 16.316 ( 0.600)-----  
S-2n = 13.188 ( 0.005)-----  
S-alpha= -0.115 ( 0.021)-----

S+p = -7.977 ( 0.004)  
S+n = -5.680 ( 0.045)  
S+2p = -13.488 ( 0.005)  
S+2n = -12.197 ( 0.050)  
S+alpha = 1.447 ( 0.005)

gap p = -0.915 ( 0.007)  
gap n = 1.274 ( 0.045)  
gap 2p = 2.829 ( 0.600)  
gap 2n = 0.991 ( 0.050)  
gap alpha = 1.332 ( 0.021)