^{170}Tm(d,d′) 1968Fr01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. M. Baglin[1], E. A. Mccutchan[2], S. Basunia[1]	NDS 153, 1 (2018)	1-Oct-2018

E(d)=12 MeV; measured σ(E(d′),θ), θ=90°, 125°, 150°.

^{170}Tm Levels

E(level)	Jπ†	E(level)	Jπ†	E(level)	Jπ†	E(level)	Jπ†
0.0@	1⁻	320.0@ *16*	5⁻	726 *4*		1097 *5*	
39#@	2⁻	380.0& *19*	(4⁻)	858 *4*		1690*b* *8*	(3⁻)
115#@	3⁻	411.0@ *21*	6⁻	920?*a* *5*	(1⁻)		
182.0@ *9*	4⁻	610@ *3*	7⁻	963*a* *5*	(2⁻)		
220#&	2⁻	646 *3*	‡	1052*a* *5*	(3⁻)		

† Authors′ values, based on comparison of $\sigma(\theta)$ and E(level) with E, $\sigma(\theta)$ and excitation probability expected on the basis of likely collective band structure.
‡ Possible 6⁻ member of $K^\pi=0^-$ band.
# Rounded-off value from Adopted Levels.
@ Band(A): $K^\pi=1^-$ band.
& Band(B): $K^\pi=0^-$ band.
a Band(C): Possible $K^\pi=1^-$ γ-vibrational band (1968Fr01). Band assignment not adopted by evaluator.
b Band(D): possible $K^\pi=3^-$ γ-vibrational band (1968Fr01).

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Band(D): Possible $K^{\pi}=3^{-}$ γ-vibrational band (1968Fr01)

(3^{-}) 1690

Band(C): Possible $K^{\pi}=1^{-}$ γ-vibrational band (1968Fr01)

(3^{-}) 1052

(2^{-}) 963

(1^{-}) 920

Band(A): $K^{\pi}=1^{-}$ band

7^{-} 610

6^{-} 411.0

Band(B): $K^{\pi}=0^{-}$ band

(4^{-}) 380.0

5^{-} 320.0

2^{-} 220

4^{-} 182.0

3^{-} 115

2^{-} 39

1^{-} 0.0