

$^{10}\text{B}(^6\text{Li},\text{t})$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell		NDS 198,1 (2024)	1-Aug-2024

1966Mc05: $^{10}\text{B}(^6\text{Li},\text{t})$: $E_{\text{c.m.}}=3.05$ MeV; measured angular distributions and σ to $^{13}\text{N}^*(0,2.36, 3.51+3.56,6.38)$ $\theta \approx 10^\circ$ to 150° .

1974Ho06: $^{10}\text{B}(^6\text{Li},\text{t})$ $E=18$ MeV; measured $\sigma(E_t, \theta)$, Deduced E, Γ, J, π . Analyzed ^{13}C analog pairs from comparison with $(^6\text{Li}, ^3\text{He})$. They associate $^{13}\text{N}^*(7.17, 9.00, 9.52, 10.35+10.36)$ with $^{13}\text{C}^*(7.49, 9.50, 9.90, 10.81+10.75)$, respectively.

 ^{13}N Levels

E(level) [†]	$T_{1/2}$ [†]	Comments
0 [‡]		$\sigma_{\text{tot.}}=0.47$ (1966Mc05).
2.36×10^3 [‡]		$\sigma_{\text{tot.}}=0.30$ (1966Mc05).
3.51×10^3 [‡]		$\sigma_{\text{tot.}}(3.51+3.56)=2.02$ (1966Mc05).
3.56×10^3 [‡]		
6.38×10^3 [‡]		$\sigma_{\text{tot.}}=1.21$ (1966Mc05).
6.90×10^3	120 keV 30	
7.17×10^3		
7.38×10^3	70 keV 30	
8.92×10^3 ?		E(level): The authors suggest this level may not be strongly populated in this reaction since its $^{13}\text{C}^*(8.86)$ analog is weakly populated in $(^6\text{Li}, ^3\text{He})$. This level cannot be resolved from $^{13}\text{N}^*(9.00)$.
9.00×10^3	280 keV 30	
9.52×10^3		
10.35×10^3		
10.35×10^3		
10.78×10^3		
11.65×10^3		

[†] From (**1974Ho06**).

[‡] Reported in (**1966Mc05**).