

$^{12}\text{C}(^6\text{Li}, ^6\text{He})$ 1993Sc02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu		NP A968, 71 (2017)	1-Jan-2017

1987Wi09: $E(^6\text{Li})=84,150,210$ MeV, measured $\sigma(\theta)$, $\sigma(E(^6\text{He}))$, deduced levels and level parameters.

1984Gl06: $E(^6\text{Li})=93$ MeV, measured $\sigma(\theta)$, $\sigma(E(^6\text{He}))$, deduced levels and level parameters.

1994La10: $E(^6\text{Li})=100$ MeV, measured $\sigma(\theta)$, $\sigma(E(^6\text{He}))$, deduced levels and level parameters.

1990Mo13, 1993Sc02: $E(^6\text{Li})=156$ MeV, measured $\sigma(\theta)$, $\sigma(E(^6\text{He}))$, deduced levels and level parameters.

1986An29: $E(^6\text{Li})=210$ MeV, measured $\sigma(\theta)$, $\sigma(E(^6\text{He}))$, deduced levels and level parameters.

1993Sc02: $E(^6\text{Li})=156$ MeV, populated ^{12}N proton-unbound states, measured p- ^6He coincidence, $\sigma(\theta(p), \theta(^6\text{He}))$, $\sigma(E(^6\text{He}))$, deduced proton decay spin (p_0 , p_1 , p_{2+3}), levels and level parameters.

 ^{12}N Levels

E(level) @	J^π @	Γ @
0		
3.13×10^3		
3.56×10^3		
4.2×10^3 †	2^-	≈ 1 MeV
5.35×10^3 †‡	3^-	
6.4×10^3 †	>3	
7.4×10^3 †‡	1^-	
9.5×10^3 #		
12×10^3 †#		

† Decays strongly to $^{11}\text{C}_{\text{g.s.}}$ (1993Sc02).

‡ Decays to $^{11}\text{C}^*(2.0 \text{ MeV})$ (1993Sc02).

Decays to $^{11}\text{C}^*(4.32 \text{ and } 4.80 \text{ MeV})$ (1993Sc02).

@ From (1993Sc02).