

$^{13}\text{C}(^6\text{Li},^6\text{He})$

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

[1970Ch19](#): $^{13}\text{C}(^6\text{Li},^6\text{He})$ E=30.8 MeV; measured $\sigma(\theta, E(^6\text{He}))$ for $\theta=18^\circ$ and 36° . Deduced levels.

[1981Vi03](#): $^{13}\text{C}(^6\text{Li},^6\text{He})$ E=93 MeV; measured $\sigma(\theta=12^\circ, E(^6\text{He}))$ deduced levels. See further discussion in ([2010Ga19](#)).

[1984Gl06](#): $^{13}\text{C}(^6\text{Li},^6\text{He})$ E=93 MeV, $^{13}\text{C}(^7\text{Li},^6\text{He})$ E=78 MeV; measured $\sigma(\theta, E(^6,^7\text{He}))$.

[1989De34](#): $^{13}\text{C}(^6\text{Li},^6\text{He})$ E=93 MeV; measured $\sigma(\theta, E(^6\text{He}))$ for $\theta=20^\circ$ to 60° ; analyzed $^{13}\text{N}^*(0, 3.5)$ peaks.

[1994La10](#): $^{13}\text{C}(^6\text{Li},^6\text{He})$ E=100 MeV/nucleon; measured $\sigma(\theta\approx 0^\circ, E(^6\text{He}))$.

[1999Ue03](#), [1999UeZY](#): $^{13}\text{C}(^6\text{Li},^6\text{He})$ E=100 MeV/nucleon; measured $\sigma(\theta\approx 0^\circ, E(^6\text{He}))$ for $\theta_{\text{c.m.}}\leq 7$ mrad. Compared yields with B(GT) from β decay.

 ^{13}N Levels

E(level)	J^π	Comments
0 ^{†‡#@&}		
2.37×10 ³ ^{†&}		
3.5×10 ³ ^{†‡#@&}	(3/2 ⁻)	J^π : From (1970Ch19). Population of 3/2 ⁻ is preferred.
7.4×10 ³ ^{‡#@}		
9.2×10 ³ ^{‡@^a}		
12.5×10 ³ ^{‡@}		
17.5×10 ³ [‡]		
21×10 ³ ^{‡^a}		

[†] Observed in ([1970Ch19](#)).

[‡] Observed in ([1981Vi03](#)).

[#] Observed in ([1984Gl06](#)).

[@] Observed in ([1994La10](#)).

[&] Observed in ([1999Ue03](#)).

^a Some states are not associated with Adopted Levels because inadequate details for association are given in the literature.