$^{12}C(^{12}C,^{11}B)$

History

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

1979Fu04: $^{12}C(^{12}C,^{11}B)$ E=93.8 MeV; measured $\sigma(\theta)$ for $^{13}N^{*}$(0,3.5 MeV) and θ=10° to 60°. DWBA analysis; deduced g.s. spectroscopic factor.
1992Ja10: $^{12}C(^{12}C,^{11}B)$ E=344.5 MeV; analyzed $\sigma(\theta)$, for θ=5° to 25°; deduced S.
1999Sz01: $^{12}C(^{12}C,^{11}B)$ $E_{c.m.}$=30-60 MeV; analyzed σ(E).

Related measurements on quasifree nucleon scattering are reported in (2019Pa61) and (1988Ki05); see also (2022Li09,2023Be20).

^{13}N Levels

E(level)†	J^{π}‡	S†
0	$1/2^{-}$	0.60
3.55×10^{3}	$5/2^{+}$	0.48
7.16×10^{3}	$7/2^{+}$	0.050
7.37×10^{3}	$5/2^{-}$	0.096
9.00×10^{3}	$9/2^{+}$	0.054

† From DWBA analysis in (1992Ja10).
‡ From Adopted Levels.