$^{12}C(^{9}Be,^{8}B)$ 1999Ca48

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

1975Wi26: A ^{12}C target was bombarded by a 121 MeV beam of ^{9}Be ions from Lawrence Berkeley Laboratory 88-inch cyclotron. The ^{8}B reaction products were measured at θ=14° using a ΔE-ΔE-E Si detector telescope. Poorly resolved groups of ^{13}B states were observed. The objective was to provide an energy calibration point for a measurement on ^{10}Li.

1999Ca48: $^{12}C(^{9}Be,^{8}B)$. E=40.1 MeV/nucleon. A ^{9}Be beam, produced by fragmentation at the MSU/NSCL, impinged on a ^{12}C target at the S800 spectrometer target position. The $\sigma(E,\theta)$ was measured for $\theta\approx3.5°-8.3°$. The reaction to $^{13}B_{g.s.}$ was used to calibrate the focal plane.

^{13}B Levels

E(level)[†]	Comments
0	
3600	E(level): Unresolved multiplet (1975Wi26).
5200	E(level): Possible group of states.
6170	E(level): Unresolved with 6430.
6430	E(level): Unresolved with 6170.

[†] From (1999Ca48).