^{12}C(^{12}Be,^{13}B) 2008Ch28

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

2008Ch28: ^{12}C(^{12}Be,^{9}Li+α) E=50 MeV/nucleon. A beam of ^{12}Be ions from the NSCL/A1900 impinged on a ^{12}C target placed at the S800 spectrometer target position that was surrounded by 16 position sensitive ΔE-E telescopes from the HiRA array. The array covered θ=2.7°−24.8° A kinematic reconstruction of the ^{9}Li+α relative energy spectrum indicated a state at E(^{9}Li+α)≈2.8 MeV. After correcting for the experimental resolution, Γ≤320 keV is deduced.

^{13}B Levels

E(level)	Γ (keV)	Comments
13.6×10^{3} *1*	≤320 keV	E(level): determined from α+^{9}Li correlations using S$_{\alpha}$=10.82 MeV.