

$^{14}\text{N}(\text{p},\alpha)$ 2005Ab17

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu		NP A880, 88 (2012)	1-Jan-2011

- 1970Ch13: $^{14}\text{N}(\text{p},\alpha)$, E=46 MeV, measured $\sigma(E_\alpha,\theta)$. ^{11}C deduced levels.
 1970Me30: $^{14}\text{N}(\text{p},\alpha)$, E=7-11 MeV, measured $\sigma(E;\theta)$.
 1972Ma21: $^{14}\text{N}(\text{p},\alpha)$, E=54, 43.7, 50.5 MeV, measured $\sigma(E_\alpha,\theta)$. ^{11}C levels deduced L.
 1974Ja11: $^{14}\text{N}(\text{p},\alpha)$, E=5-22 MeV, measured $\sigma(E)$. Astrophysical production of Li, B.
 1974Mu17: $^{14}\text{N}(\text{p},\alpha)$, E=4-18 MeV, measured $\sigma(E)$.
 1974Pi05: $^{14}\text{N}(\text{p},\alpha)$, E=20-45 MeV, measured $\sigma(E_\alpha,\theta)$, deduced optical model parameters. ^{11}C levels deduced L, J, π .
 1976In01: $^{14}\text{N}(\text{p},\alpha)$, E=3.8-6.4 MeV, measured $\sigma(E)$. Astrophysical σ factor.
 1978Ca29: $^{14}\text{N}(\text{p},\alpha)$, E=4.5-15 MeV, measured absolute $\sigma(E)$. Thick target saturation activities.
 1980Bi16: $^{14}\text{N}(\text{p},\alpha)$, E=threshold-18 MeV, measured absolute $\sigma(E)$.
 1981No15: $^{14}\text{N}(\text{p},\alpha)$, E<15 MeV, measured thick target yields.
 1983Va26: $^{14}\text{N}(\text{p},\alpha)$, E=4-18 MeV, measured thick target yield.
 1985Ku13: $^{14}\text{N}(\text{p},\alpha)$, E=9.1 MeV, measured absolute thick target γ yields.
 1985Va14: $^{14}\text{N}(\text{p},\alpha)$, E=18 MeV.
 1986Ai04: $^{14}\text{N}(\text{p},\alpha)$, E<14.7 MeV, measured σ .
 1990Ko21: $^{14}\text{N}(\text{p},\alpha)$, E=2-7 MeV, measured $\sigma(E)$.
 2003Ko72: $^{14}\text{N}(\text{p},\alpha)$, E \approx 6-19 MeV, measured excitation functions. Deduced integral yields.
 2005Ab17: $^{14}\text{N}(\text{p},\alpha)$, E \approx 20.5-45 MeV; analyzed $\sigma(E,\theta)$, spectroscopic factors. Deduced reaction mechanism features.
 2006Tr08: $^{14}\text{N}(\text{p},\alpha)$, E=13 MeV.

 ^{11}C Levels

E(level)
 0
 2.00×10^3
 4.3×10^3
 4.8×10^3