^{14}N(p,^{3}He) 1970Sc02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu	NP A968,71 (2017)	1-Jan-2017

1970Me30: ^{14}N(p,^{3}He) E=7-11 MeV, measured σ(E,θ).
1970Sc02: ^{14}N(p,^{3}He) E=50 MeV, measured σ(E(^{3}He),θ). Deduced optical model parameters. ^{12}C deduced levels, J, π, S.
1973Ho10: ^{14}N(p,^{3}He) E_P=39.8 MeV, measured σ(E(^{3}He),θ). DWBA analysis.
1974Pi05: ^{14}N(p,^{3}He) E=20-45 MeV, measured σ(E(^{3}He),θ). Deduced optical model parameters. ^{12}C levels deduced L, J, π.
1975Ho22: ^{14}N(p,^{3}He) E=50 MeV, measured σ(E(^{3}He),θ). ^{12}C level deduced J, π.
1976Yo03: ^{14}N(p,^{3}He) E=51.9 MeV, measured σ(θ). Deduced σ(E(^{3}He),θ)/σ(E_t,θ).

^{12}C Levels

E(level)[†]	J$^{\pi}$	Comments
0		
4.4×10^{3}		
7.65×10^{3}		
9.64×10^{3}		
12.7×10^{3}		
14.1×10^{3}	4^{+}	J$^{\pi}$: From (1970Sc02).
15.11×10^{3}		
16.11×10^{3}		

[†] From (1970Sc02).