^{14}N(^{3}He,^{6}He) 2003Gu06,1974Be20

History

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

1974Be20: ^{14}N(^{3}He,^{6}He), E=70 MeV; measured σ(E(^{6}He),E$_t$,E(^{3}He)). ^{11}N deduced levels.
1995Gu08: ^{14}N(^{3}He,^{6}He), E=70.08 MeV; measured ^{6}He energy spectra; deduced isobaric multiplet mass equation. ^{11}N deduced levels, J, π, configuration.
2003Gu06: ^{14}N(^{3}He,^{6}He), E=73.4 MeV; measured σ(E,θ). ^{11}N deduced levels, J, π, resonance widths. DWBA analysis.
2003Gu30: ^{14}N(^{3}He,^{6}He), E=73.4 MeV; measured particle spectra, σ(E,θ). ^{11}N deduced resonance energies, J, π, widths. DWBA analysis.

^{11}N Levels

E(level)	J$^{\pi}$	T$_{1/2}$	Comments
0	1/2$^+$	0.24 MeV *24*	E(level): from ^{11}N$_{g.s.}$=E$_{res}$=1.49 MeV *6*, see comments In the Adopted Levels data set. for ^{14}N(^{3}He,^{6}He) the reported ground state energy E$_{res}$=1.31 MeV *5* from (2003Gu06) lies above the adopted ground state energy E$_{res}$=1.49 MeV *6*. The energies of higher excited states are deduced assuming ^{11}N$_{g.s.}$=E$_{res}$=1.49 MeV *6*. E(level): Γ: from E$_{res}$=1.31 MeV *5* (2003Gu06).
820 *63*	1/2$^-$	0.73 MeV *6*	E(level): from E$_{res}$=2.31 MeV *2* (2003Gu06) and ^{11}N$_{g.s.}$=E$_{RES.}$=1.49 MeV *6*; see also E$_{res}$=2.24 MeV *10* (1974Be20). Γ: from Γ=0.74 MeV *10* (1974Be20) and 0.73 MeV *6* (2003Gu06).
2290 *80*	5/2$^+$	0.56 MeV *17*	E(level): Γ: from E$_{res}$= 3.78 MeV *5* (2003Gu06) and ^{11}N$_{g.s.}$=E$_{RES.}$=1.49 MeV *6*.
3070 *60*	3/2$^-$	0.30 MeV *5*	E(level): Γ: from E$_{res}$=4.56 MeV *1* (2003Gu06) and ^{11}N$_{g.s.}$=E$_{RES.}$=1.49 MeV *6*.
4420 *70*	(5/2$^-$)	1.30 MeV *9*	E(level): Γ: from E$_{res}$=5.91 MeV *3* (2003Gu06) and ^{11}N$_{g.s.}$=E$_{RES.}$=1.49 MeV *6*.
5.31×10^3 *30*	(3/2$^-$)		E(level): Γ: from E$_{res}$=6.80 MeV *30* (2003Gu06) and ^{11}N$_{g.s.}$=E$_{RES.}$=1.49 MeV *6*.