$^{12}C(^{14}N,^{15}C)$ 1998Le06

History

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

1998Bo38: $^{12}C(^{14}N,^{15}C)$, E=426 MeV; measured particle spectra. ^{11}N deduced resonances, J, π.
1998Le06: $^{12}C(^{14}N,^{15}C)$, E=30 MeV/nucleon; measured ^{15}C energy spectrum. ^{11}N deduced resonances E, Γ, J, π.
1999Le37: $^{12}C(^{14}N,^{15}C)$, E=30 MeV/nucleon; measured particle spectrum. ^{11}N deduced resonances, J, π, R-matrix calculations.
2003Le26: $^{12}C(^{14}N,^{15}C)$, E=30 MeV/nucleon; measured particle spectra. ^{11}N deduced ground and excited states, resonance energies, widths.

^{11}N Levels

E(level)	J^π	$T_{1/2}$	Comments
690 *80*	$1/2^-$	0.44 MeV *8*	E(level): from $^{11}N_{g.s.}=E_{res}=1.49$ MeV *6*, see comments In the Adopted Levels data set. for $^{12}C(^{14}N,^{15}C)$ the ground state is not observed. The energies of higher excited states are deduced assuming $^{11}N_{g.s.}=E_{res}=1.49$ MeV *6*.
			E(level): Γ: from $E_{res}=2.18$ MeV *5* (1998Le06) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.
2140 *80*	$5/2^+$	0.40 MeV *8*	E(level): Γ: from $E_{res}=3.63$ MeV *5* (1998Le06) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.
2900 *80*	$(3/2^-)$	≤220 keV	E(level): Γ: from $E_{res}=4.39$ MeV *5* (1998Le06) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.
3.63×10^3 *10*	$(5/2^-)$	≤220 keV	E(level): Γ: from $E_{res}=5.12$ MeV *8* (1998Le06) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.
4.38×10^3 *16*	$(7/2^-)$	0.7 MeV *2*	E(level): Γ: from $E_{res}=5.87$ MeV *15* (1998Le06) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.