$^{10}B(^{14}N,^{13}B)$ 2000Ol01,2003Le26

History

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

2000Ol01: $^{10}B(^{14}N,^{13}B)$, E=30 MeV/nucleon; measured particle spectra. ^{11}N deduced levels, J, π, ground-state resonance width.
2003Le26: $^{10}B(^{14}N,^{13}B)$, 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
0	$1/2^+$	0.4 MeV *1*	E(level): from $^{11}N_{g.s.}=E_{res}=1.49$ MeV *6*, see comments In the Adopted Levels data set. for $^{10}B(^{14}N,^{13}B)$) the reported ground state energy $E_{res}=1.63$ MeV *5* from (2000Ol01) 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 $E_{res}=1.63$ MeV *5* (2000Ol01).
670 *80*	$1/2^-$	0.25 MeV *8*	E(level): Γ: from $E_{res}=2.16$ MeV *5* (2000Ol01) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.
1.57×10^3 *10*		<100 keV	E(level): Γ from $E_{res}=3.06$ MeV *8* (2000Ol01) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.
2120 *80*	$5/2^+$	500 keV *80*	E(level): Γ: from $E_{res}=3.61$ MeV *5* (2000Ol01) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.
2840 *80*	$(3/2^-)$	450 keV *80*	E(level): Γ: from $E_{res}=4.33$ MeV *5* (2000Ol01) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.
4.49×10^3 *12*	$(5/2^-)$	100 keV *60*	E(level): Γ: from $E_{res}=5.98$ MeV *10* (2000Ol01) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.
5.05×10^3 *12*		100 keV *60*	E(level): Γ: from $E_{res}=6.54$ MeV *10* (2000Ol01) and $^{11}N_{g.s.}=E_{RES.}=1.49$ MeV *6*.