^{9}Be(^{14}B,^{12}Li) 2010Ha04

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

2010Ha04: The authors measured the two proton removal reaction ^{9}Be(^{14}B,^{12}Li) at E(^{14}B)=53.4 MeV/nucleon. Residual ^{12}Li nuclei decayed into ^{11}Li+n which were detected in the NSCL MoNA/Sweeper dipole magnet array. Resonance energies are deduced from the kinematic reconstruction.

^{12}Li Levels

E(level)[†]	J^{π}	Γ	E_{res}(^{11}Li+n) (keV)	Comments
0?	(2^-)		120 *15*	J^{π}: From L=0 neutron decay to n+^{11}Li($3/2^-$).
90 *25*	(4^-)	<15 keV	250 *20*	E(level): The manuscript reports E_{res}=250 keV *20* above the ^{11}Li+n breakup threshold. A reanalysis in (2013Ko03), which is not accepted, assumes this state is the g.s. and gives a revised value of E_{res}=210 keV *30* for this state.
405 *25*	(1^-)	<80 keV	555 *20*	E(level): The manuscript reports E_{res}=555 keV *20* above the ^{11}Li+n breakup threshold. A reanalysis in (2013Ko03) gives a different interpretation and a revised value of E_{res}=525 keV *25* for this state.

[†] In the present analysis the ground state is assumed to be neutron unbound by 120 keV *15* as was reported in (2008Ak03).