^{9}Be(^{17}C,^{16}B) 2010Sp02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, G. C. Sheu	ENSDF	16-Jan-2016

2010Sp02: The authors measured the unbound ground state of ^{16}B by carrying out a ^{17}C single proton knockout reaction (E=55 MeV/nucleon). The resulting unbound ^{16}B nuclei decayed into $^{15}\beta^{+}$n which were detected using the NSCL/MoNA array and a charged particle detector.

The ^{16}B ground state energy was determined by kinematic reconstruction of the $^{15}\beta^{+}$n pairs. A single peak with E_{rel}=60 keV *20* was observed, and though no detailed analysis was carried out, the authors indicate the narrow width is consistent with Γ=0.5 keV suggested in (2009Le02).

^{16}B Levels

E(level)	$T_{1/2}$	Comments
0	<100 keV	E(level): corresponds to $E_{rel}(^{15}\beta^{+}n)$=60 keV *20*.