^{9}Be(^{12}Be,γ^{11}Be) 2000Na23,2011Pe13

History

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

2000Na23: ^{9}Be(^{12}Be,^{11}BeX), E=78 MeV/nucleon; measured σ(E,θ), longitudinal momentum distribution, γ spectrum. ^{11}Be levels deduced spectroscopic factors.
2011Pe13: ^{9}Be(^{12}Be,^{11}Be), E=90 MeV/nucleon. Detected ^{10}Be+N and analysed neutron unbound levels.

^{11}Be Levels

E(level)	J$^{\pi}$[†]	$T_{1/2}$	S	Comments
0			0.42 *6*	
320			0.37 *6*	
1778	5/2^{+}			
2690	3/2^{-}			
3949 *2*	3/2^{-}	<40 keV		E(level): Decays via S(n)=80 keV *2* neutron emission to ^{10}Be*(3869). This implies E_x=3949 keV *2*. (2009Ha01) measured the neutron decay branching ratio for this state and found it decays evenly to ^{10}Be*(0, 3869); the g.s. decay energy is outside the acceptance of the present measurement.

[†] From (2005Hi03, 2009Ha01).

$\gamma(^{11}$Be)

E_γ	E_i(level)	E_f
320	320	0

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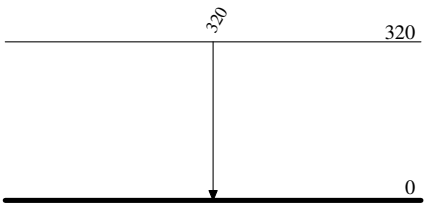
Level Scheme



$^{11}_{4}Be_{7}$