^{9}Be(^{6}Li,^{6}He),^{9}Be(^{7}Li,^{7}Be) 1988Bu18

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu, J. L. Godwin, et al.	NP A745 155 (2004)	31-Mar-2004

1970Ch19: ^{9}Be(^{6}Li,^{6}He) E=31 MeV, measured σ(E(^{6}He)).

1984Gl06: ^{9}Be(^{6}Li,^{6}He) E=93 MeV, ^{9}Be(^{7}Li,^{7}Be) E=78 MeV, measured $\sigma(\theta)$, σ(E(^{6}He)), σ(E(^{7}Be)). Deduced single-step, spin flip charge exchange process dominance.

1985Co09: ^{9}Be(^{6}Li,^{6}He) E=34, 36 MeV, measured $\sigma(\theta)$. Deduced optical model parameters. ^{9}B levels deduced spectroscopic factors. Coupled-channels, DWBA analyses.

1988Bu18: ^{9}Be(^{6}Li,^{6}He) E=32 MeV, measured $\sigma(\theta$,E(^{6}He)). ^{9}B deduced levels, Γ.

1992Ca31: ^{9}Be(^{6}Li,^{6}He) E=32, 48 MeV, measured particle spectra, σ(E(^{6}He),θ). ^{9}B level deduced limit on population.

1993Re04: ^{9}Be(pol. ^{6}Li,^{6}He) E=32 MeV, measured $\sigma(\theta)$, vector, tensor analyzing powers vs θ. ^{9}B levels deduced spectroscopic amplitudes. Shell model.

^{9}B Levels

E(level)	$T_{1/2}$	Comments
0		
1.32×10^{3} *8*	0.86 MeV *26*	E(level): Γ: from (1988Bu18).
2.36×10^{3}		
2.79×10^{3}		
3.48×10^{3}? *8*	0.67 MeV *22*	E(level): Γ: from (1988Bu18). it was necessary to include a broad state At E≈3.5 MeV In (1988Bu18) In order to fit the spectra, though this state has not been previously observed.
4.60×10^{3} *16*	0.68 MeV *43*	E(level): Γ: from (1988Bu18).