^{9}Be(^{7}Li,^{6}Li),(^{8}Li,^{7}Li) 2001Mi39

History

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

1977Ke09: ^{9}Be(^{7}Li,^{6}Li) E=34 MeV, measured $\sigma(\theta)$. ^{10}Be levels deduced S. Finite range DWBA analysis.
2001Mi39: ^{9}Be(^{7}Li,^{6}Li) E=52 MeV, measured excitation energy spectra, E_{α} following residual nucleus decay. ^{10}Be deduced levels, J, π, molecular states.
2003So29: ^{9}Be(^{7}Li,^{6}Li) E=52 MeV, measured excitation energy spectra, E_{α} following residual nucleus decay.
1989Be28: ^{9}Be(^{8}Li,^{7}Li) E=13 MeV, measured $\sigma(\theta)$. Deduced astrophysical abundance implications.
1989Ko17: ^{9}Be(^{8}Li,^{7}Li) E=11 MeV, measured residuals spectra, $\sigma(\theta)$.
1993Be22: ^{9}Be(^{8}Li,^{7}Li) E≈13-20 MeV, measured $\sigma(\theta)$.
S from (1977Ke09).

^{10}Be Levels

Projectile: energy: 52 MeV.

E(level)	S	Comments
0	2.07	E(level): from (2001Mi39).
3.37×10^{3}	0.42	S=0.42 assumes population via a ($P_{1/2}$) transition; otherwise S=0.38 for a ($P_{3/2}$) transition. E(level): from (2001Mi39).
5.96×10^{3}		E(level): from (2001Mi39).
$\approx6\times10^{3}$		E(level): from (2001Mi39). Miltiplet.
7.5×10^{3}		E(level): from (2001Mi39). Doublet.
9.6×10^{3}		E(level): from (2001Mi39).
10.2×10^{3}		E(level): from (2001Mi39).
11.8×10^{3}		E(level): from (2001Mi39).