^{7}Li(t,α)   2002Ti10

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Hu, Tilley, Kelley et al.	NP A708, 3 (2002)	23-Aug-2001

1970Ab12: ^{7}Li(t,α) E=2 MeV, measured σ(E$_\alpha$), deduced N-N scattering Γ. ^{6}He level deduced α-decay Γ.

1971St05: ^{7}Li(t,α) E<22 MeV, measured $\sigma(\theta)$. ^{6}He level deduced J, π. ^{6}He deduced No levels > 1.80 MeV.

1983Ce01: ^{7}Li(t,α) E=70-110 keV, measured thick targets yields, deduced $\sigma(\theta,E)$, astrophysics S-factor vs θ, E.

1987Ab09: ^{7}Li(t,α) E=151, 272 MeV, measured $\sigma(\theta)$, deduced angular distribution parameters, S-matrix elements.

1987Al23: ^{3}H(^{7}Li,α) E=31 MeV, measured σ(E$_\alpha$,θ_α), $\sigma(\theta)$. ^{6}He deduced levels.

^{6}He Levels

E(level)	J$^\pi$	T$_{1/2}$	Comments
0	0$^+$		
1797 *25*	2$^+$	113 keV *20*	$\Gamma_\gamma/\Gamma_\alpha \leq 2.0 \times 10^{-6}$. $\Gamma_\gamma \leq 0.23$ eV.
13.6×10^3			