

$^7\text{Li}(t,\gamma),(t,n),(t,p),(t,t)$ 1988Aj01,2004Ti06

Type	Author	History	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

1973BIZE: $^7\text{Li}(t,\gamma)$, measured $\sigma(E, E_\gamma, \theta)$. ^{10}Be deduced resonance.
 1973BIZR: $^7\text{Li}(t,\gamma)$, measured E_γ . ^{10}Be deduced resonances.
 1978Su02: $^7\text{Li}(t,\gamma)$ E=0.4-1.1 MeV, measured $\sigma(E, E_\gamma, \theta)$. ^{10}Be deduced resonance, J, π , Γ .
 1979Ab11: $^7\text{Li}(t,n)$ E=5.43-5.95 MeV, measured $\sigma(E)$. ^{10}Be deduced level, T, π .
 1986Ab10: $^7\text{Li}(t,n)$ E=5-13 MeV, analyzed $\sigma(E)$.
 1987Ab15: $^7\text{Li}(t,n)$ E $\approx$ 5.7-8.5 MeV, analyzed $\sigma(E)$. ^{10}Be deduced levels, Γ .
 1971Yo04: $^7\text{Li}(t,p)$ E=15, 19 MeV, measured $\sigma(E_p, \theta)$.
 1973Ab10: $^7\text{Li}(t,p)$ E=2-8 MeV, measured $\sigma(E)$. ^{10}Be deduced resonance, Γ .
 1978Aj02: $^7\text{Li}(t,p)$ E=23 MeV, measured $\sigma(E_p, \theta)$.
 1979Ab11: $^7\text{Li}(t,p)$ E=5.43-5.95 MeV, measured $\sigma(E)$. ^{10}Be deduced level, T, π .
 1983Co11: $^7\text{Li}(\text{pol. } t, P)$ E=5-6 MeV, measured β asymmetry. Deduced polarization transfer to residual nucleus.
 1986Ab10: $^7\text{Li}(t,p)$ E=5-13 MeV, analyzed $\sigma(E)$.
 1987Ab15: $^7\text{Li}(t,p)$ E $\approx$ 5.7-8.5 MeV, analyzed $\sigma(E)$. ^{10}Be deduced levels, Γ .
 1990Gu36: $^7\text{Li}(t,p)$ E<9.339 MeV, analyzed $\sigma(E)$. ^{10}Be deduced resonance energy, Γ .
 1977Gu19: $^7\text{Li}(t,t)$ E=4-10 MeV, measured $\sigma(\theta)$. Deduced optical model parameters.
 1970Ab12: $^7\text{Li}(t,\alpha)$ E=2 MeV, measured $\sigma(E_\alpha)$. Deduced N-N scattering width.
 1971St05: $^7\text{Li}(t,\alpha)$ E<22 MeV, measured $\sigma(\theta)$.
 1979Ab11: $^7\text{Li}(t,\alpha)$ E=5.43-5.95 MeV, measured $\sigma(E)$. ^{10}Be deduced level, T, π .
 1983Ce01: $^7\text{Li}(t,\alpha)$ E=70-110 keV, measured thick target yields. Deduced $\sigma(\theta, E)$, astrophysical S-factor vs. θ, E .
 1987Ab09: $^7\text{Li}(t,\alpha)$ E=151, 272 MeV, measured $\sigma(\theta)$. Deduced angular distribution parameters, S-matrix elements. ^{10}Be deduced level, J, π , Γ .
 1992Cl04: $^7\text{Li}(t,\alpha)$ E=38 MeV, analyzed $\sigma(\theta)$. Exact finite range DWBA analysis.

 ^{10}Be Levels

Projectile: energy: 235 MeV.

E(level)	J^π	$T_{1/2}$	Comments
17300?	2^+	253 keV 1	E(level): Γ : from (1987Ab09).
17790		160 keV 50	E(level): Γ : from (1978Su02).
18470			
21.216 $\times 10^3$ 23	2^-	80 keV 30	T=2
21233			E(level): Γ : from (1990Gu36).
23.14 $\times 10^3$ 14		440 keV 178	E(level): Γ : from (1990Gu36).
23.2 $\times 10^3$			E(level): from (1987Ab15).