^{7}Li(p,n) 2004Ti06

History

Type	Author	Citation	Literature Cutoff Date
Update	J. H. Kelley, J. L. Godwin, C. G. Sheu	ENSDF	31-Mar-2004

1969Cl06: ^{7}Li(p,n) E=30,50 MeV, measured $\sigma(\theta)$. Deduced isospin-dependent effective interaction.
1970Ro07: ^{7}Li(p,n) E=0.9-1.9 MeV, measured σ(E). ^{7}Li(p,n) deduced thresholds.
1972Az01: ^{7}Li(p,n) E=17.8 MeV, measured $\sigma(E_N,\theta)$.
1972El19: ^{7}Li(p,n) E=2.2-5.5 MeV, measured $\sigma(E,E_N,\theta)$.
1972Pr03: ^{7}Li(P,N_1) E=2.37-6.0 MeV, measured σ(E).
1973Ro35: ^{7}Li(pol. p,N) E=2.05-3.00 MeV, measured analyzing power A(θ).
1974Bu16: ^{7}Li(p,n) E<3.8 MeV, measured $\sigma(E,E_N,\theta)$.
1974Sh06: ^{7}Li(p,n), measured Q.
1975Mc18: ^{7}Li(p,n) E =15,20,30 MeV, measured σ.
1976Po06: ^{7}Li(p,n) E=4.2-26 MeV, measured $\sigma(E,\theta)$ to ^{7}Be ground state, first excited state; θ=3.5°−159°.
1977Ri07: ^{7}Li(p,n) E=800 MeV, measured σ.
1977Sc37: ^{7}Li(p,n) E=25-45 MeV, measured $\sigma(E,E_N)$.
1979Ba68: ^{7}Li(p,n) E=1 GeV, measured $\sigma(E_N,\theta)$. Deduced dependency of quasielastic neutron production on mass.
1980Au02: ^{7}Li(p,n) E=25,35,45 MeV, measured $\sigma(E_N)$. Deduced Gamow-Teller analog transition effective interaction.
1980Go07: ^{7}Li(p,n) E=120 MeV, measured $\sigma(\theta=0°)$.
1982Ta03: ^{7}Li(p,n) E=60-200 MeV, measured $\sigma(\theta=0°)$. Deduced isovector effective interaction strength ratio.
1982Wa02: ^{7}Li(p,n) E=60-200 MeV, measured total reaction σ vs. E. Activation technique.
1984Ta07: ^{7}Li(pol. p,N) E=160 MeV, measured transverse spin transfer coefficient D(NN) (θ=0°), polarized neutrons.
1986JeZZ: ^{7}Li(pol. p,N) E=55-72 MeV, measured polarization transfer, θ=0°.
1989Ra09: ^{7}Li(p,n) E=492 MeV, measured $\sigma(\theta,E)$. Deduced unit σ(ratio).
1989Wa15: ^{7}Li(p,n) E=200-400 MeV, measured $\sigma(\theta)$.
1990Ra08: ^{7}Li(p,n), ^{7}Li(pol. p,N) E=60-200 MeV, measured $\sigma(\theta)$.
1990Ta11: ^{7}Li(p,n) E=80-795 MeV, measured $\sigma(\theta)$.
1994Ra23: ^{7}Li(pol. p,N) E=186 MeV, measured $\sigma(\theta,E_N)$, $\sigma(\theta)$, spin observable vs. θ. Deduced quasifree excitation role In giant resonance region.
1994Sa43: ^{7}Li(pol. p,N) E=300,400 MeV, measured $\sigma(\theta)$ vs. Energy transfer, neutron energy spectra, polarization transfer coefficients vs. θ.
1994Wa22: ^{7}Li(p,n), ^{7}Li(pol. p,N) E=186 MeV, measured $\sigma(\theta,E_N)$, polarization transfer coefficient, analyzing power vs. θ.
1995Ya12: ^{7}Li(p,n) E=186 MeV, measured $\sigma(\theta,E_N)$. Deduced quasifree reaction contribution In giant resonance region, ΔL=1 transitions energy spectra.
1999Bu10: ^{7}Li(p,n) E<2000 keV. Analyzed data.
2000Jo17: ^{7}Li(p,n) E=35 MeV, measured $\sigma(\theta)$. Deduced isovector optical potential parameters.
2001Go25: ^{7}Li(p,n) E=120,160 MeV. Analyzed neutron spectra. Deduced Gamow-Teller matrix elements.
2003Ko40: ^{7}Li(p,n) E≈1.9 MeV, measured neutron yields.

^{8}Be Levels

E(level)	J^{π}	$T_{1/2}$	L	Comments
18.9×10^{3}	2^{-}	50 keV *20*		
19.2×10^{3}	3^{+}		1	T=1 T: tentative $\Gamma_p\approx\Gamma_n$.
19.5×10^{3}	1^{-}			
20.1×10^{3}?				
20.2×10^{3}?				
21.5×10^{3}	$3^{(+)}$	1.1 MeV		