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

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

1965Im01: ^{7}Li(d,p). Deduced nuclear properties.
1965Wo01: ^{7}Li(d,p) E=0.29-0.5 MeV, measured σ(E). ^{9}Be deduced level, isobaric spin.
1973Ab10: ^{7}Li(d,p) E=2-8 MeV, measured σ(E). ^{9}Be deduced resonance, Γ.
1975Mc02: ^{7}Li(d,p) E=THRESH.−3.8 MeV. Deduced σ(E).
1976Sc14: ^{7}Li(d,p) E=0.613-1.948 MeV, measured σ(E). ^{9}Be deduced resonances.
1979El03: ^{7}Li(d,p) E=0.1-1.0 MeV, analyzed data. R-matrix, DWBA analysis. Deduced reaction mechanism.
1980Ye02: ^{7}Li(d,p) E=9.05 MeV, measured $\sigma(\theta)$. Deduced reaction mechanism. DWBA analysis.
1982El03: ^{7}Li(d,p) E=0.684-0.896 MeV, measured $\sigma(E_d,\theta)$, reaction σ.
1982Fi03, 1983Fi13: ^{7}Li(d,p) E=0.6-1.2 MeV, measured β-delayed E_α, I_α. Deduced absolute, total σ(E).
1986Ab04: ^{7}Li(d,p) E=2-10 MeV, measured σ(E). ^{9}Be deduced levels.
1986Ba38: ^{7}Li(d,p) E=0.77 MeV, analyzed σ. Deduced inaccuracies.
1986Go23: ^{7}Li(d,p) E=18.6 MeV, measured $\sigma(\theta)$. Deduced vertex constants, optical model parameters. DWBA analyses.
1996No11: ^{7}Li(d,p) E=3 MeV, measured residual nucleus polarization vs two-tilted foils distance.
1998Ad12: ^{7}Li(d,p) E=low, compiled, analyzed cross section data, calculations. Deduced implications for solar neutrino flux calculations.
1998St20: ^{7}Li(d,p) E=0.4-1.8 MeV, measured yields. Deduced recoil loss for several backing materials.
1998We05: ^{7}Li(d,p) E=776 keV, measured σ. Deduced backscattering effect.

^{9}Be Levels

E(level)	$T_{1/2}$	Comments
16975 *3*	<0.5 keV	E(level): Γ: from ^{7}Li(d,γ). $\Gamma_{n0}/\Gamma_\gamma \approx 1.5$, $\Gamma_{\alpha 0}/\Gamma_\gamma < 20$ (1965Im01).
17300 *5*	195 keV	σ(total)=157 mb *10*. E(level): E_{res}= 776 keV *7*. From E_{res}=773 keV *10* (1976Sc14) and [Mingay, S. African J. of Phys., 2 (1979) 107]. Also the (2003Au03) mass excess tables. Γ: see (1966La04).
17495 *5*	47 keV	E(level): E_{res}= 1027 keV *7*. From E_{res}=1025 keV *10* (1976Sc14) and [Mingay, S. African J. of Phys., 2 (1979) 107]. Γ: see (1966La04).
18.5×10^{3}?		Γ=broad. E(level): from [Bezrukov, Panov and Timoshuk, Sov. J. Nucl. Energy, 4 (1956) 609].
18.54×10^{3} *5*		E(level): from (1973Ab10).
19.20×10^{3} *5*	310 keV *80*	E(level): Γ: from (1973Ab10).
$\approx 20.4\times10^{3}$		E(level): from (1973Ab10).