

${}^7\text{Li}(e,e'),(e,ep)$  2002Ti10,1974Aj01

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

- 1965Ch11:  ${}^7\text{Li}(e,e')$  E=3 MeV, measured  $\sigma(E_{e'})$ .  
 1969Hu05:  ${}^7\text{Li}(e,e')$  E=60-130 MeV, measured relative  $\sigma(E_{e'}, \theta)$ , deduced form factors.  
 1971Va20:  ${}^7\text{Li}(e,e),(e,e')$  E=25-90 MeV, measured  $\sigma(E, \theta=90-150^\circ)$ .  ${}^7\text{Li}$  deduced parameters of nuclear magnetization, charge distribution.  
 1973An31:  ${}^7\text{Li}(e,e'p)$  E=1200 MeV, measured  $\sigma(E_p, \theta)$ ,  $pe'(\theta)$ .  ${}^7\text{Li}$  deduced wavefunction.  
 1973Hi03:  ${}^7\text{Li}(e,e'p)$  measured  $\sigma(E_e, E_p)$ .  
 1973Ku19:  ${}^7\text{Li}(e,e')$  E=1184 MeV, measured  $\sigma(\theta)$ .  
 1978Na05:  ${}^7\text{Li}(e,ep)$  E=700 MeV, measured  $\sigma(E_p, \theta(P))$ , deduced proton spectral functions. DWIA calculation.  
 1980Ti05:  ${}^7\text{Li}(e,e')$  E=450-1096 MeV, measured  $\sigma(\theta, E(e'))$ , longitudinal, transverse components.  
 1982Bu09:  ${}^7\text{Li}(e,e')$  E=40-74 MeV, measured  $\sigma(\theta)$ , transverse form factors.  ${}^7\text{Li}$  deduced M1 transition  $\Gamma$ .  
 1983Li07:  ${}^7\text{Li}(e,e),(e,e')$  E=90-300 MeV, measured M1, M3, E2 form factors. Shell model interpretation.  
 1984Do16:  ${}^7\text{Li}(e,e)$  E=190 MeV, measured  $\sigma(\theta=180^\circ)$ ,  ${}^7\text{Li}(e,e')$  E $\leq$ 140 MeV, measured transverse form factors.  
 1989Li09:  ${}^7\text{Li}(e,e),(e,e')$  E=80-680 MeV, measured longitudinal, transverse form factors.  
 1990Li21:  ${}^7\text{Li}(e,e')$  E=80-680 MeV, measured electromagnetic form factors, deduced multi-nucleon degrees of freedom role.  
 1996Bu22:  ${}^7\text{Li}(e,e'X)$  E=104-262 MeV, measured electron spectra following disintegration. Sum rule analysis.

 ${}^7\text{Li}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0			
$0.48 \times 10^3$	$1/2^-$		$T=1/2; \Gamma_{\gamma 0}=6.30 \times 10^{-3}$ eV 31
$4.63 \times 10^3$	$5/2^-$		$T=1/2$
$6.6 \times 10^3$	$1/2^-$	880 keV 20	$T=1/2$
$7.50 \times 10^3$	$5/2^-$		$T=1/2; \Gamma_{\gamma 0}=0.6$ eV 3
$11.25 \times 10^3$	$3/2^-$	0.20 MeV 10	$T=3/2; \Gamma_{\gamma 0}=1.3$ eV 4