

Table 7.4 from (2002TI10): Resonance parameters for 7.5–7.2 MeV levels in ${}^7\text{Li}$ and ${}^7\text{Be}$ ^a

Reaction	${}^6\text{Li} + \text{n}$	${}^6\text{Li} + \text{p}$
E_r (keV, lab)	262 ^b	1840 ^c
$\Gamma(E_r)$ (keV, cm)	154	836
E_λ (keV above g.s.)	7700	7580
$\Gamma_{\text{n,p}}(E_r)$ (keV, cm)	118	798
radius (n, p) in fm	3.94	4.08
$\gamma_{\text{n,p}}^2$ (MeV · fm) ^d	4.85	5.02
$\theta_{\text{n,p}}^2$	0.26	0.28
$\Gamma_\alpha(E_r)$ (keV, cm)	36	38
radius (α) in fm	4.39	4.39
γ_α^2 (MeV · fm) ^d	0.101	0.101
θ_α^2	0.012	0.012

^a These states are believed to have a ${}^4\text{P}_{5/2}$ character, consistent with their large θ_{n}^2 and θ_{p}^2 . See Table 7.4 in (1979AJ01). These parameters are from Table I of (1963MC09). See also (1959GA08).

^b 244.5 ± 1.0 keV (1982SM02).

^c See also the measurements and analysis of (1995SK01).

^d The authors of (1959GA08, 1963MC09) use a definition of $\gamma_{\text{n,p}}^2$ and γ_α^2 for which the units are MeV · fm.