

Table 7.4 from (1988AJ01): Resonance parameters for  
7.5 – 7.2 MeV levels in  ${}^7\text{Li}$  and  ${}^7\text{Be}$  <sup>a</sup>

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

<sup>a</sup> These states are believed to have a  ${}^4\text{P}_{5/2}$  character, consistent with their large  $\theta_{\text{n}}^2$  and  $\theta_{\text{p}}^2$ . For references see [Table 7.4 in \(1979AJ01\)](#).

<sup>b</sup>  $244.5 \pm 1.0$  keV ([1982SM02](#)).