

Table 7.2 from (1959AJ76): Resonance parameters for 7.2 – 7.5 MeV level in  ${}^7\text{Li}$ - ${}^7\text{Be}$

	${}^6\text{Li}(n, n){}^6\text{Li}, {}^6\text{Li}(n, \alpha){}^3\text{H}$				${}^6\text{Li}(p, \alpha){}^3\text{He}$	
	(1951BA79)	(1954JO17)	(1956WI04)	(1956MA91)	(1951BA79)	(1956MA91)
$E_r$ (keV, lab) <sup>a</sup>	250	255	255		1820	1850
$\Gamma$ (keV, lab)	100	100	100		500	
$E_\lambda$ (keV above g.s.)	7540	7700	6640 <sup>b</sup>	7680	7310	7800
$\Gamma_{n,p}(E_r)$ (keV, c.m.)	50	114	82	114	400	670
radius (n, p) in $10^{-13}$ cm	4.0	2.54	3.94	4.08	4.0	4.08
$\gamma_{n,p}^2$ ( $10^{-13}$ MeV-cm)	2.4	11.8	3.5 <sup>b</sup>	4.6	2.6	4.2
$\theta_{n,p}^2$	[0.13]	0.42	0.19 <sup>b</sup>	0.26	[0.14]	0.24
$\Gamma_\alpha(E_r)$ (keV, c.m.)	36	60	43	64	30	50
radius ( $\alpha$ ) in $10^{-13}$ cm		3.5		4.39		4.39
$\gamma_\alpha^2$ ( $10^{-13}$ MeV-cm)		0.4 <sup>c</sup>	0.12 <sup>b</sup>	0.14		0.79
$\theta_\alpha^2$		[0.04]	0.014 <sup>b</sup>	0.017 <sup>d</sup>		0.095 <sup>d</sup>

<sup>a</sup>  $E_r = 265$  keV,  $\sigma = 9.5 \pm 0.2$  b (1956GO62); see also (1958HU18, 1959BA1H).

<sup>b</sup> With same convention as other references,  $E_\lambda = 7580$  (H.B. Willard, private communication).

<sup>c</sup>  $\gamma_n^2/\gamma_\alpha^2 = 30$ ; see (1956MA91: footnote, p. 1406).

<sup>d</sup> Corrected value: see (1957MA57).