

Table 5.5 from (2002TI10):  
Parameters of  ${}^5\text{Li}$  resonances deduced from  $\alpha + \text{p}$  gamma spectra

$J^\pi$	Quantity	Experimental result <sup>a</sup>	Conventional <sup>b</sup> $R$ -matrix	Extended <sup>b</sup> $R$ -matrix
$\frac{3}{2}^-$	$\sigma$ ( $\mu\text{b}$ )	$8.0 \pm 0.7$	–	–
	$E_x$ (MeV) <sup>c</sup>	$2.9 \pm 0.2$	2.08	1.69
	$\Gamma$ (MeV)	$1 \pm 0.2$	2.11	1.23
$\frac{1}{2}^-$	$\sigma$ ( $\mu\text{b}$ )	$4.5 \pm 0.4$	–	–
	$E_x$ (MeV) <sup>c</sup>	$9.3 \pm 0.4$	8.26	3.18
	$\Gamma$ (MeV)	$10 \pm 1$	19.8	6.60

<sup>a</sup> From Table I of (2000HO18). These results were obtained by fitting the photon spectrum to a background plus two Gaussian peaks representing the two resonances.

<sup>b</sup> See Tables 5.3 and 5.4.

<sup>c</sup> These energies are relative to the  $\alpha + \text{p}$  threshold.