

Table 7.7 from (1979AJ01):  ${}^7\text{Be}$  levels <sup>a</sup> from  ${}^3\text{He} + {}^4\text{He}$

$E_x$ (MeV $\pm$ keV)	$J^\pi$	$l_\alpha$	$LS$ term	$R$ (fm)	$\theta_\alpha^2$ <sup>b</sup>	$\theta_p^2$	$\theta_{p'}^2$	Refs.
4.57 $\pm$ 50	$\frac{7}{2}^-$	3	${}^2\text{F}_{7/2}$	4.0	0.70 $\pm$ 0.04			(1967SP10)
6.73 $\pm$ 100	$\frac{5}{2}^-$	3	${}^2\text{F}_{5/2}$	4.0	1.36 $\pm$ 0.13	0.000 $\pm$ 0.002		(1967SP10)
7.21 $\pm$ 60	$\frac{3}{2}^-$	3	${}^4\text{P}_{5/2}$	4.0	0.010 $\pm$ 0.001	0.26 $\pm$ 0.02		(1967SP10)
9.27 $\pm$ 100	$\frac{7}{2}^-$	3	${}^4\text{D}_{7/2}$	4.0	0.70 $\pm$ 0.26	0.29 <sup>+0.09</sup> <sub>-0.18</sub>	1.8 $\pm$ 0.5	(1967SP10)
10.0 <sup>c</sup>	$\frac{3}{2}^-$	1	( ${}^4\text{P}_{3/2}$ )					(1967HA07, 1967HA08)
$\approx$ 10.0 <sup>d</sup>	$\frac{1}{2}^-$		( ${}^4\text{P}_{1/2}$ )					(1967HA07, 1967HA08)
11.00 $\pm$ 50 <sup>e</sup>	$\frac{3}{2}^-$	1	( ${}^2\text{P}_{3/2}$ , ${}^2\text{D}_{3/2}$ )			0.13 $\pm$ 0.02 <sup>f</sup>		(1967HA07, 1967HA08)

<sup>a</sup> Compare Table 7.10 in (1966LA04).

<sup>b</sup>  $\gamma^2 / (\frac{3}{2} \hbar^2 / \mu a^2)$ .

<sup>c</sup>  $\Gamma = 1.8$  MeV.

<sup>d</sup> Broad.

<sup>e</sup>  $\Gamma = 0.4 \pm 0.05$  MeV;  $T = \frac{3}{2}$ .

<sup>f</sup>  $\theta_p^{2''}$ .