

Table 7.6 from (74AJ01):  ${}^7\text{Be}$  levels from  ${}^3\text{He} + {}^4\text{He}$  <sup>a</sup>

$E_x$ (MeV $\pm$ keV)	$J^\pi$	$l_\alpha$	$LS$ term	$R$ (fm)	$\theta_\alpha^2$ <sup>b</sup>	$\theta_p^2$	$\theta_{p'}^2$	Refs.
$4.57 \pm 50$ <sup>c</sup> 4.566	$\frac{7}{2}^-$	3	${}^2F_{7/2}$	4.0 4.4	$0.70 \pm 0.04$ 0.34			(SP67B) (IV68)
$6.73 \pm 100$ <sup>c</sup>	$\frac{5}{2}^-$	3	${}^2F_{5/2}$	4.0	$1.36 \pm 0.13$	$0.000 \pm 0.002$		(SP67B)
$7.21 \pm 60$ <sup>c</sup>	$\frac{5}{2}^-$	3	${}^4P_{5/2}$	4.0	$0.010 \pm 0.001$	$0.26 \pm 0.02$		(SP67B)
$9.27 \pm 100$ 10.0 <sup>d</sup>	$\frac{7}{2}^-$ $\frac{3}{2}^-$	3 1	${}^4D_{7/2}$ ( ${}^4P_{3/2}$ )	4.0	$0.70 \pm 0.26$	$0.29^{+0.09}_{-0.18}$	$1.8 \pm 0.5$	(SP67B) (HA67)
$\approx 10.0$ <sup>e</sup>	$\frac{1}{2}^-$		( ${}^4P_{1/2}$ )					(HA67)
$11.00 \pm 50$ <sup>f</sup>	$\frac{3}{2}^-$	1	( ${}^2P_{3/2}$ , ${}^2D_{3/2}$ )			$0.13 \pm 0.02$ <sup>g</sup>		(HA67)

<sup>a</sup> Compare to Table 7.10 in (66LA04).

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

<sup>c</sup> See also (LE68I).

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

<sup>e</sup> Broad.

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

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