

Table 7.10 from (66LA04): ${}^7\text{Be}$ levels from ${}^4\text{He}({}^3\text{He}, {}^3\text{He}){}^4\text{He}$ and ${}^6\text{Li}(p, p){}^6\text{Li}$

E_x (MeV)	J^π	Term	R (fm)	θ_α^2	θ_p^2	Refs.
0	$\frac{3}{2}^-$	${}^2\text{P}_{\frac{3}{2}}$	3.8	0.15		(BA64C)
0.43	$\frac{1}{2}^-$	${}^2\text{P}_{\frac{1}{2}}$				
4.54 ± 0.02	$\frac{7}{2}^-$	${}^2\text{F}_{\frac{7}{2}}$	4.4	0.36		(MI58B)
4.57 ± 0.04				0.38		(BA64C)
6.51 ± 0.04	$\frac{5}{2}^-$	${}^2\text{F}_{\frac{5}{2}}$	4.4	0.48	< 0.02	(TO63C)
7.18	$\frac{5}{2}^-$	${}^4\text{P}_{\frac{5}{2}}$	4.1	0.012	0.28	(MC63A)
9.2 ± 0.5						(SP64)