

Table 7.9 from (66LA04): Energy levels of  ${}^7\text{Be}$

$E_x$ (MeV $\pm$ keV)	$J^\pi; T$	$\Gamma$ (keV)	Decay	Reactions
g.s.	$\leq \frac{3}{2}^-; \frac{1}{2}$	$\tau_{1/2} = 53.37 \pm 0.11$ d	$\epsilon$	1, 3, 5, 10, 14, 15, 17, 19
$0.431 \pm 1$	$\frac{1}{2}^-; \frac{1}{2}$	$\tau_m = 0.27 \pm 0.10$ ps	$\gamma$	5, 10, 14, 15, 17, 19
$4.55 \pm 20$	$\frac{7}{2}^-; \frac{1}{2}$	100	${}^3\text{He}, \alpha$	3, 17, 19
$6.51 \pm 40$	$\frac{5}{2}^-; \frac{1}{2}$	1200	${}^3\text{He}, \alpha$	3, 10, 19
$7.185 \pm 20$	$(\frac{5}{2}^-); \frac{1}{2}$	836	p, ${}^3\text{He}, \alpha$	3, 7, 9, 10, 19
( $9.2 \pm 0.5$ )		broad	p, ${}^3\text{He}$	3
9.9	$(\frac{3}{2}^-; \frac{1}{2})$	$\approx 1800$	p, p <sub>1</sub> , p <sub>2</sub>	7
$10.79 \pm 40$	$(\frac{3}{2}^-; \frac{3}{2})$	$298 \pm 25$		17
( $14.6 \pm 300$ )				19