

Table 7.7 from (1988AJ01): Energy levels of ${}^7\text{Be}$

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{c.m.}$	Decay	Reactions
g.s.	$\frac{3}{2}^-; \frac{1}{2}$	$\tau_{1/2} = 53.29 \pm 0.07$ d	ϵ	1, 2, 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 27, 28
0.42908 ± 0.10	$\frac{1}{2}^-; \frac{1}{2}$	$\tau_m = 192 \pm 25$ fsec	γ	2, 4, 5, 9, 10, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28
4.57 ± 50	$\frac{7}{2}^-; \frac{1}{2}$	$\Gamma = 175 \pm 7$ keV	${}^3\text{He}, \alpha$	3, 5, 10, 13, 15, 16, 17, 18
6.73 ± 100	$\frac{5}{2}^-; \frac{1}{2}$	1.2 MeV	${}^3\text{He}, \alpha$	3, 8, 9, 13, 17
7.21 ± 60	$\frac{5}{2}^-; \frac{1}{2}$	≤ 0.5 MeV	p, ${}^3\text{He}, \alpha$	3, 6, 8, 9, 13, 16
9.27 ± 100	$\frac{7}{2}^-; \frac{1}{2}$		p, ${}^3\text{He}, \alpha$	3
9.9	$\frac{3}{2}^-; \frac{1}{2}$	≈ 1.8 MeV	p, ${}^3\text{He}, \alpha$	3, 6
11.01 ± 30	$\frac{3}{2}^-; \frac{3}{2}$	320 ± 30	p, ${}^3\text{He}, \alpha$	3, 6, 13, 17
17 ^a	$\frac{1}{2}^-; \frac{1}{2}$	≈ 6.5 MeV	${}^3\text{He}$	3

^a For possible states at higher E_x see reactions 3 and 6.