

Table 8.1 from (1988AJ01): Energy levels of ${}^8\text{He}$

E_x (MeV)	$J^\pi; T$	$\tau_{1/2}$ (msec)	Decay	Reactions
g.s.	$0^+; 2$	119 ± 1.5	β^-	1, 2, 3
2.8 ± 0.4 ^a	$(2^+); 2$			2, 3

^a Excited states are calculated at $E_x = 5.83, 7.92$ and 8.18 MeV, with $J^\pi = 2^+, 1^-$ and 2^- [$(0 + 1)\hbar\omega$ model space]. In the $(0 + 2)\hbar\omega$ model space the excited states are at $5.69, 9.51$ and 11.59 MeV, with $J^\pi = 2^+, 1^+$ and 0^+ (1985PO10). See [reaction 3](#) for possible evidence of other states in ${}^8\text{He}$ (1987BEYI; prelim.).