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

$E_{\rm x}$ (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 $E_{\rm x} = 5.83$, 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}He (1987BEYI; prelim.).