

Table 12.52 from (2017KE05): Energy levels of ^{12}O

E_x (MeV \pm keV)	J^π	Γ (keV)	$E(2p + ^{10}\text{C})$ (keV)	Decay	Reactions
0 ^a	0^+	< 72	1638 ± 24	2p	1 , 2 , 3 , 4
(1.620 ± 105) ^b	0^+	$1.2^{+0.3}_{-0.7}$	3258 ± 107	2p	2 , 3
1.968 ± 52 ^b	(2^+) ^c	475 ± 110	3606 ± 60	2p	1 , 2
4.2	1^-	2.2 MeV	5.8 MeV	2p	3
7.0		2.2 MeV	8.6 MeV	2p	3

^a From (2012JA11) ($\Delta M = 31914 \pm 24$ keV). Other results suggest $\Delta M > 32$ MeV, but in these cases systematic effects appear greater than in (2012JA11).

^b It is unclear whether the groups observed at $E_x = 1.62$ MeV and $E_x = 1.97$ MeV represent unique states or a closely spaced doublet.

^c A state with $J^\pi = 2^+$ is expected in this energy region. J^π is from systematics.