

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

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

<sup>a</sup> 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).

<sup>b</sup> 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.

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