

Table 15.11 from (1959AJ76): Energy levels of  $^{15}\text{O}$ 

$E_x$ (MeV $\pm$ keV)	$J^\pi$	$\tau_{1/2}$ or $\Gamma$ (keV)	Decay	Reactions
0	$(\frac{1}{2})^-$	$\tau_{1/2} = 123.6 \pm 0.45$ sec	$\beta^+$	1, 2, 3, 5, 12, 15, 18, 21
5.195 $\pm$ 10	}		$\gamma$	7, 12, 21
5.247 $\pm$ 10				
6.15 $\pm$ 30	$(\leq \frac{5}{2}^-)$		$\gamma$	7, 12
6.792 $\pm$ 9	$\frac{1}{2}^+, \frac{3}{2}^+$			
6.860 $\pm$ 9				
7.560 $\pm$ 2	$\frac{1}{2}^+$	$\Gamma = 1.5 \pm 0.5$	p, $\gamma$	7, 9, 12
8.291 $\pm$ 4	$\frac{3}{2}^+$	$3 \pm 1$	p, $\gamma$	7, 9, 12
8.747 $\pm$ 7	$\frac{1}{2}^+$	32	p, $\gamma$	7, 9
8.928 $\pm$ 5	$(\leq \frac{5}{2})$	$4 \pm 1$	p, $\gamma$	7, 9
8.988 $\pm$ 6	$\frac{1}{2}^-, \frac{3}{2}^-$	$4 \pm 1$	p, $\gamma$	7, 9, 12
9.47	$\frac{1}{2}^+$	510	p, $\gamma$	7, 9
9.497 $\pm$ 12		$13 \pm 4$	p, $\gamma$	7, 9
9.619 $\pm$ 12		$10 \pm 3$	p, $\gamma$	7, 9
9.666 $\pm$ 4		$< 8$	p	9
10.29 $\pm$ 80			p	9
10.47			p	9
10.949 $\pm$ 8	$\geq \frac{3}{2}$	$77 \pm 14$	p	9
11.030 $\pm$ 10		$< 14$	p	9
11.780 $\pm$ 20		75	p	9
11.846 $\pm$ 15		65	p, $\alpha$	9, 11
12.3		broad	p, $\alpha$	11
12.5		broad	p, $\alpha$	11
13.04 $\pm$ 20	$(\frac{5}{2}^-)$		p, $\alpha$ , $^3\text{He}$	4, 11
13.1			p, $^3\text{He}$	4
13.79	$(> \frac{5}{2})$		p, n, $^3\text{He}$	4
14.09	$(\frac{1}{2}^+)$		p, n, $^3\text{He}$	4
14.2			p, n, $^3\text{He}$	4
14.5			p, $^3\text{He}$	4
15.0			p, $^3\text{He}$	4
15.6			p, $^3\text{He}$	4
15.9			p, $^3\text{He}$	4