

Table 17.5 from (1959AJ76): States of  $^{17}\text{O}$  from  $^{16}\text{O}(\text{d}, \text{p})^{17}\text{O}$  and  $^{19}\text{F}(\text{d}, \alpha)^{17}\text{O}$

$E_x^a$ (MeV $\pm$ keV)	$\Gamma_{\text{c.m.}}^a$ (keV)	$l_n^b$	$J^\pi^b$	$\frac{\Lambda^c}{2J+1}$	$E_x^d$ (MeV $\pm$ keV)	$E_x^e$ (MeV $\pm$ keV)
0	< 8	2	$\frac{5}{2}^+$	72	0	0
$0.871 \pm 4$	< 8	0	$\frac{1}{2}^+$	68	$0.870 \pm 20$	$0.883 \pm 11$
$3.055 \pm 4$	< 8	iso.	$(\frac{1}{2}^-)$		$3.060 \pm 30$	$3.069 \pm 10$
$3.846 \pm 5$	< 8	3	$(\frac{7}{2}^-)$	15	$3.850 \pm 30$	$3.856 \pm 11$
$4.553 \pm 6$	$40 \pm 5$	1	$\frac{3}{2}^-$	2.2	$4.580 \pm 20$	$4.567 \pm 14$
$5.083 \pm 10$	$95 \pm 5$	2	$\frac{3}{2}^+$	25	$5.070 \pm 20$	
$5.215 \pm 5$	< 8					$5.229 \pm 13$
$5.378 \pm 7$	$28 \pm 7$				$5.310 \pm 20$	$5.397 \pm 14$
$5.695 \pm 5$	< 8					
$5.731 \pm 5$	< 8				$5.760 \pm 20$	$5.723 \pm 14$
$5.866 \pm 5$	< 8					$5.875 \pm 15$
$5.940 \pm 15$	$23 \pm 10$					$5.947 \pm 15$
					$6.240 \pm 20$	
					$6.890 \pm 30$	$6.869 \pm 14$
						$(6.986 \pm 15)$
						$(7.371 \pm 15)$
					$7.510 \pm 30$	
					$8.270 \pm 40$	
					$(8.590 \pm 40)$	
					$9.060 \pm 40$	

<sup>a</sup>  $^{16}\text{O}(\text{d}, \text{p})^{17}\text{O}$ : (1957BR82);  $E_d = 6.5$  to  $7.5$  MeV. No other proton groups appear with intensities greater than 0.1 of 4.55 MeV group.

<sup>b</sup>  $^{16}\text{O}(\text{d}, \text{p})^{17}\text{O}$ : (1956GR37);  $E_d = 9$  MeV.

<sup>c</sup> (1956GR37); relative capture probabilities.

<sup>d</sup>  $^{16}\text{O}(\text{d}, \text{p})^{17}\text{O}$  and  $^{19}\text{F}(\text{d}, \alpha)^{17}\text{O}$ : (1951BU1A);  $E_d = 7.9$  MeV.

<sup>e</sup>  $^{19}\text{F}(\text{d}, \alpha)^{17}\text{O}$ : (1952WA1A);  $E_d = 1.8$  MeV.