

Table 17.8 from (1971AJ02):

 ^{17}O levels from the study of $^{13}\text{C}(^6\text{Li}, \text{d})^{17}\text{O}$ and $^{13}\text{C}(^7\text{Li}, \text{t})^{17}\text{O}$ (1970BE31)

E_x^a (MeV)	J^π	$d\sigma/d\omega$ in ($\mu\text{b}/\text{sr}$) ^b	
		($^6\text{Li}, \text{d}$)	($^7\text{Li}, \text{t}$)
0 ^b	$\frac{5}{2}^+$	105	75
0.87 ^b	$\frac{1}{2}^+$	180	92
3.06 ^b	$\frac{1}{2}^-$	560	750
3.84 ^b	$\frac{5}{2}^-$	340	1400
4.55 ^b	$\frac{3}{2}^-$	285	1350
5.08 ^b	$\frac{3}{2}^+$	180	250
5.22 ^b	$\frac{7}{2}^- \rightarrow \frac{11}{2}^-$	245	230
5.38	$\frac{3}{2}^-$	c	c
5.70 ^b	$\left. \begin{array}{l} \frac{7}{2}^- \\ \frac{1}{2}^+ \\ \frac{3}{2}^+ \end{array} \right\}$	230	530
5.73 ^b			
5.87			
5.94	$\frac{1}{2}^-$	90	150
6.24		c	c
6.36	$\frac{1}{2}^+$	c	c
6.86 ^b		92	125
6.97 ^b		200	320
7.17 ^b	$\frac{5}{2}^-$	350	1050
7.29	$\frac{3}{2}^+$	d	d
7.38 ^b	$\frac{5}{2}^+$	720	2000
7.57 ^b	$\frac{7}{2}^-$	98	310
7.68 ^b	$\frac{7}{2}^-$	620	1100
$7.76 \pm 0.02^{a,b}$	$(\frac{11}{2}^-)$		
7.95	$\frac{1}{2}^-$	d	d
8.09	$\frac{3}{2}^+$	c	c
8.21	$\frac{3}{2}^-$	d	d
8.35	$\frac{1}{2}^+$	d	d
8.40	$\frac{5}{2}^+$	d	d
8.47 ^b	$\left. \begin{array}{l} \frac{7}{2}^+ \\ \frac{5}{2}^- \end{array} \right\}$	940	2400
8.50 ^b			

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E_x^a (MeV)	J^π	$d\sigma/d\omega$ in ($\mu\text{b}/\text{sr}$) ^b	
		($^6\text{Li}, \text{d}$)	($^7\text{Li}, \text{t}$)
8.70	$\frac{3}{2}^-$	50	200
8.88	} $\frac{7}{2}^-$	1400	2000
8.96			

^a These energies were not determined in this experiment, except for that of $^{17}\text{O}^*(7.76)$.

^b Angular distributions were obtained for these states. For these $d\sigma/d\omega$ were taken at the maximum of the distribution. For the other states $d\sigma/d\omega$ is the 30° value.

^c Group not seen: obscured by contaminant.

^d This level was not observed.