

Table 17.16 from (1982AJ01): States of ^{17}O from $^{18}\text{O}(\text{d}, \text{t})^{\text{a}}$

E_{x}^{b} (MeV)	$J^{\pi}; T^{\text{b}}$	l	C^2S
0	$\frac{5}{2}^{+}; \frac{1}{2}$	2	1.53 ^d
0.87	$\frac{1}{2}^{+}; \frac{1}{2}$	0	0.21 ^d
3.06	$\frac{1}{2}^{-}; \frac{1}{2}$	1	1.08
3.84	$\frac{5}{2}^{-}; \frac{1}{2}$	> 2	
4.55	$\frac{3}{2}^{-}; \frac{1}{2}$	1	0.12
5.09	$\frac{3}{2}^{+}; \frac{1}{2}$	2	0.10
5.38	$\frac{3}{2}^{-}; \frac{1}{2}$	1	0.53
5.70	$\frac{7}{2}^{-}; \frac{1}{2}$		
5.94	$\frac{1}{2}^{-}; \frac{1}{2}$	1	0.06
6.86		$\neq 1$	
7.38 ^c	$\frac{5}{2}^{+} + \frac{5}{2}^{-}$	$\neq 2$	
8.20	$\frac{3}{2}^{-}; \frac{1}{2}$	1	0.15
8.47	$\frac{7}{2}^{+}; \frac{1}{2}$		
8.69	$\frac{3}{2}^{-}; \frac{1}{2}$	1	0.10
9.15	$\frac{1}{2}^{-}; \frac{1}{2}$	1	0.10
9.49	$\frac{5}{2}^{-}; \frac{1}{2}$		
11.08	$\frac{1}{2}^{-}; \frac{3}{2}$	1	0.96
$11.41 \pm 0.01^{\text{a}}$	$T = \frac{1}{2}^{\text{a}}$	(1)	0.04
$12.12 \pm 0.01^{\text{a}}$	$T = \frac{1}{2}^{\text{a}}$	(1)	0.24
12.47	$\frac{3}{2}^{-}; \frac{3}{2}$	1	0.24
$12.76 \pm 0.01^{\text{a}}$	$T = \frac{1}{2}^{\text{a}}$	(1)	0.17
12.94	$\frac{1}{2}^{+}; T = \frac{3}{2}$	0	0.19 ± 0.05
13.64	$(\frac{5}{2})^{+}; \frac{3}{2}$	2	0.29 ± 0.12
$16.58 \pm 0.01^{\text{a}}$	$(\frac{1}{2}, \frac{3}{2})^{-}; \frac{3}{2}^{\text{a}}$	1	0.93
$18.14 \pm 0.01^{\text{a}}$	$(\frac{1}{2}, \frac{3}{2})^{-}; \frac{3}{2}^{\text{a}}$	1	0.17

^a (1977MA10): $E_{\text{d}} = 52$ MeV; DWBA analysis.

^b From Table 17.7, unless footnote is shown.

^c Unresolved.

^d (1978FO05; $E_{\text{d}} = 17$ MeV) report spectroscopic factors of 1.48 ± 0.27 and 0.29 ± 0.05 (DWBA), 1.30 and 0.31 (CCBA), respectively, for $^{17}\text{O}^*(0, 0.87)$.