

Table 19.3 from (1978AJ03): Levels of ^{19}O from $^{17}\text{O}(t, p)^{19}\text{O}$ and $^{18}\text{O}(d, p)^{19}\text{O}$ ^a

E_x (MeV \pm keV)					$\Gamma_{\text{c.m.}}$ ^h (keV)	l_n ^b	L ^c	S ⁱ	J^π
(1963YA03) ^b	(1966WI05) ^{b,c}	(1969FI07, 1970FI08) ^{b,e}	(1971BR02) ^{d,e}	(1971HI06) ^{d,e}					
0	0	0				2^i	0^k	0.57	$\frac{5}{2}^+ i$
f	0.096 ± 12	0.097 ± 2	0.096 ± 2	g		2^k	2^k		$\frac{3}{2}^+ j$
1.468 ± 15	1.467 ± 12	1.470 ± 3	1.470 ± 2	1.4719 ± 0.5 ^g		0^i	2^k	1.00	$\frac{1}{2}^+ i$
	2.373 ± 12	2.369 ± 4	2.367 ± 4	2.3715 ± 1.0		2^k	$(2+4)^k$		$\frac{9}{2}^+ j$
2.612 ± 5									
	2.779 ± 12	2.777 ± 3	2.774 ± 4	2.7790 ± 0.9		$(2)^k$	2^k		$\frac{7}{2}^+ j$
			(2.794 ± 3)				$(2+4)^k$		$\frac{3}{2}^+ j$
	3.070 ± 12	3.070 ± 5	3.066 ± 3			2^i	$(0+2)^k$	(0.06)	$\frac{5}{2}^+ i$
3.171 ± 15	3.156 ± 12	3.157 ± 3	3.150 ± 3			k			$\frac{3}{2}^+ j$
	3.229 ± 12	3.237 ± 5				1^i		0.11	$\frac{3}{2}^- i$
	3.945 ± 12	3.944 ± 3				2^i	$(2)^k$	0.03	$\frac{3}{2}^+ i$
4.111 ± 15	4.111 ± 12	4.118 ± 5			< 15				
	4.333 ± 12				< 15				
	4.402 ± 12				75 ± 15	1^i		0.15	$\frac{3}{2}^- i$
	4.584 ± 12				< 15	2^i	k	0.02	$\frac{5}{2}^+ i$
	4.707 ± 12				< 15				
	4.998 ± 12				< 15	2^i	k	0.08	$\frac{5}{2}^+ i$
5.153 ± 15	5.148 ± 12				320 ± 25	2^i	$(2+4)^k$	0.85^l	$\frac{3}{2}^+ i$
5.447 ± 15	5.460 ± 12				< 15				
	5.502 ± 12				< 15	2^i		0.17	$(\frac{3}{2})^+ i, j$
(5.708 ± 15)	5.714 ± 12				< 15	3^i		0.13	$\frac{7}{2}^- i$
6.282 ± 15	6.280 ± 12								
6.480 ± 15									
6.560 ± 15									
6.899 ± 15									

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E_x (MeV \pm keV)					$\Gamma_{\text{c.m.}}$ ^h (keV)	l_n ^b	L ^c	S ⁱ	J^π
(1963YA03) ^b	(1966WI05) ^{b,c}	(1969FI07, 1970FI08) ^{b,e}	(1971BR02) ^{d,e}	(1971HI06) ^{d,e}					
6.997 \pm 15									
7.117 \pm 15									
7.248 \pm 15									

^a See also Table 19.3 in (1972AJ02) for the earlier work.

^b $^{18}\text{O}(d, p)^{19}\text{O}$: proton spectra measurements.

^c $^{17}\text{O}(t, p)^{19}\text{O}$: proton spectra measurements.

^d $^{17}\text{O}(t, p)^{19}\text{O}$: γ -ray measurements.

^e $^{18}\text{O}(d, p)^{19}\text{O}$: γ -ray measurements.

^f Observed but group was weak.

^g Other values for these two states are 96.0 ± 0.5 and 1472 ± 1 keV (1971MC11).

^h (1966WI05, 1973WI05).

ⁱ $E_{\bar{d}} = 14.8$ MeV; polarization and differential cross-section measurements. The spectroscopic factors for the states with $E_x > 4.1$ MeV have been calculated in the weakly bound neutron approximation (1974SE01).

^j See (1975CR03).

^k (1966WI05, 1975CR03).

^l 0.92 ± 0.14 (1973WI05).