

Table 18.7 from (1972AJ02): States of ^{18}O from $^{17}\text{O}(\text{d}, \text{p})^{18}\text{O}$

E_x (MeV \pm keV)			l_n^f	J^π^g
(1963YA03) ^a	(1965MO16) ^d	(1966WI07) ^e		
	0	0	2	0 ⁺
	1.982 \pm 10	1.98	0 + 2	2 ⁺
	3.552 \pm 10	3.55	2	4 ⁺
		3.63	(2)	0 ⁺
		3.92	0	2 ⁺
4.440 \pm 25 ^b		4.45	1	1 ⁻
5.092 \pm 25		5.09		
c	5.255 \pm 10	5.25	0	2 ⁺ h
c		5.33		
(5.375 \pm 25)	5.375 \pm 10	5.37	0	3 ⁺ h
5.492 \pm 25				
6.200 \pm 25		6.19		
c		6.34		
	7.110 \pm 15	7.10	2	4 ⁺
	7.855 \pm 20			
	7.962 \pm 20			

^a $E_d = 14.95$ MeV. Angular distribution measured for protons to $^{18}\text{O}^*(4.45)$.

^b Lower energy states were not investigated.

^c This part of the spectrum could not be observed.

^d $E_d = 5.56$ MeV. Angular distributions measured for protons to the first six states shown.

^e $E_d = 10.0$ MeV. The energies shown are nominal. Proton groups to $^{18}\text{O}^*(5.52, 6.39, 6.86)$ were not observed. Angular distributions were measured for all the listed states.

^f (1965MO16, 1966WI07), except for the assignment for $^{18}\text{O}^*(4.45)$ (1963YA03). The levels for which l -values are not given by (1965MO16, 1966WI07) are weakly populated.

^g Known J^π from this and other experiments.

^h See also (1964MO25, 1967MO09).