

Table 18.4 from (1983AJ01):
States of ^{18}O from $^{12}\text{C}(^7\text{Li}, \text{p})$ ^a

E_x (keV) ^b	E_x (keV) ^b
0	6351.1 ± 4.5 ^d
1982.4 ± 4.2	6402.1 ± 4.5
$\equiv 3555.0$	6888.1 ± 6.1
3636.1 ± 3.5	7119.8 ± 5.1 ^e
3922.4 ± 3.1	7619.4 ± 5.0
4457.8 ± 3.0	7779.3 ± 4.8 ^f
5099.3 ± 3.8	7858.7 ± 4.9 ^g
5252.1 ± 4.9	7972.7 ± 4.8
5331.6 ± 3.8	8041.5 ± 5.0
5377.6 ± 3.6 ^c	8133.9 ± 5.3
5532.2 ± 3.7	8218.3 ± 5.2 ^h
6194.9 ± 3.8	8291.7 ± 5.6

^a (1978FO29). Angular distributions have been measured at $E(^7\text{Li}) = 16.0$ and 18.0 MeV. The total cross sections generally agree with a $(2J + 1)$ relationship.

^b From the results at $E(^7\text{Li}) = 18.0$ MeV.

^c Cross section much smaller than expected from a $(2J + 1)$ relationship.

^d On the basis of the $(2J + 1)$ relationship, and results from other reactions, 2^- is suggested.

^e Cross section is enhanced. It is suggested that this group corresponds to an unresolved doublet. See also text of [reaction 3](#).

^f $J = (2, 3)$.

^g $J^\pi = (4^+, 5^-)$.

^h Cross section is enhanced: either $J \neq 2$, or there is another unresolved state, or there is an appreciable non-compound reaction component.