

Table 18.5 from (1987AJ02):
States of ^{18}O from $^{12}\text{C}(^7\text{Li}, \text{p})$ and $^{13}\text{C}(^6\text{Li}, \text{p})$

E_x (keV) ^a	σ_{tot} ^b (μb)	σ_{tot} ^c (μb)
0	41.7 ± 1.7	6.1 ± 0.3
1982.4 ± 4.2	243 ± 4	39 ± 1
$\equiv 3555.0$	429 ± 5	56 ± 1
3636.1 ± 3.5	58.5 ± 1.0	13 ± 1
3922.4 ± 3.1	209 ± 3	36 ± 1
4457.8 ± 3.0	164 ± 2	46 ± 1
5099.3 ± 3.8	387 ± 5	74 ± 1
5252.1 ± 4.9	353 ± 4	44 ± 1
5331.6 ± 3.8 } 5377.6 ± 3.6 }	217 ± 2	35 ± 1
5532.2 ± 3.7	218 ± 3	45 ± 1
6194.9 ± 3.8	103 ± 2	37 ± 1
6351.1 ± 4.5 ^d } 6402.1 ± 4.5 }	521 ± 4	131 ± 2
6888.1 ± 6.1	33.8 ± 0.7	5.3 ± 0.4
7119.8 ± 5.1 ^e	892 ± 10	208 ± 2
7619.4 ± 5.0	124 ± 2	33 ± 1
7779.3 ± 4.8 ^f	262 ± 3	37 ± 1
7858.7 ± 4.9 ^g	487 ± 6	101 ± 1
7972.7 ± 4.8	380 ± 4	84 ± 1
8041.5 ± 5.0	80 ± 1	19 ± 1
8133.9 ± 5.3	500 ± 6	140 ± 2
8218.3 ± 5.2	508 ± 6	48 ± 1
8291.7 ± 5.6	368 ± 4	103 ± 2

^a (1978FO29): $^{12}\text{C}(^7\text{Li}, \text{p})^{18}\text{O}$. See also Table 18.4 in (1983AJ01).

^b σ_{tot} ($0 - 180^\circ$) from $^{12}\text{C}(^7\text{Li}, \text{p})$ at $E(^7\text{Li}) = 18.0$ MeV (1978FO29). Angular distributions were also measured at 16.0 MeV. The total cross sections generally agree with a $(2J + 1)$ relationship (1978FO29). For discussions of the deviations from this relationship see (1978FO29, 1984FO15).

^c $^{13}\text{C}(^6\text{Li}, \text{p})^{18}\text{O}$ at $E(^6\text{Li}) = 28.0$ MeV (1986SM01).

^d 2^- is suggested.

^e May be an unresolved doublet.

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

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