Table 19.14 from (1995TI07): Levels of ^{19}F from ^{15}N(α, p) and ^{15}N(α, α) [a]

E_α (MeV $\pm$ keV) [b]	$\Gamma_{\rm lab}$ (keV)	J^π	$E_{\rm x}$ (MeV $\pm$ keV)
1.878 ± 10	4	$\frac{3}{2}^+$	5.496
2.614 ± 10	1.5	$\frac{5}{2}^+$	6.077
2.635 ± 10	5	$\frac{5}{2}^-$	6.094
2.833 ± 10	10	$\frac{1}{2}^+$	6.250
2.883 ± 10	3	$\frac{5}{2}^+$	6.289
2.944 ± 10	3	$\frac{7}{2}^+$	6.338
3.060 ± 10	360	$\frac{1}{2}^-$	6.429 ± 8
3.194 ± 10	5	$\frac{1}{2}^+$	6.535
3.229 ± 10	2	$\frac{5}{2}^+$	6.563
3.525 ± 10	3	$\frac{3}{2}^-$	6.796
3.587 ± 10	1.5	$(\frac{5}{2}, \frac{3}{2}^+)$	6.845
3.648 ± 10	35	$\frac{5}{2}^-$	6.893
3.705 ± 10	3	$(\frac{9}{2}, \frac{7}{2}^+)$	6.938
3.770 ± 10	64	$\frac{1}{2}^-$	6.989 ± 8
3.930 ± 10	40	$\frac{7}{2}^+$	7.116 ± 8
4.127	< 8		7.271
4.23	< 82	$\frac{7}{2}^+$	7.35
4.465 [f]	0.16 ± 0.05	$\frac{5}{2}^+; T = \frac{3}{2}$	7.538
4.49	< 110	$\frac{7}{2}^+$	7.56
4.53	< 50	$\frac{5}{2}^+$	7.59
4.619 [f]	0.0028 ± 0.0008	$\frac{3}{2}^+; T = \frac{3}{2}$	7.660
4.710	< 40	$\frac{1}{2}^-$	7.731
4.780	< 8		7.787
4.93	< 260		7.90 [e]
(5.005)	(< 8)		(7.964)
(5.018)	(< 5)		(7.974)
5.116	< 8		8.052
5.203	< 8		8.120
5.232	< 6		8.143
5.25	< 65		8.16
5.284	< 10		8.184

Table 19.14 from (1995TI07): Levels of ^{19}F from ^{15}N(α, p) and ^{15}N(α, α) [a] (continued)

E_α (MeV $\pm$ keV) [b]	$\Gamma_{\rm lab}$ (keV)	J^π	$E_{\rm x}$ (MeV $\pm$ keV)
5.415 [c]	0.90 ± 0.10	$\frac{13}{2}^-$	8.288
5.481	< 10		8.340
5.847 [c]	0.066 ± 0.024	$\frac{7}{2}^{(-)}$	8.629
6.259 [c]	3.57 ± 0.05	$\frac{11}{2}^-$	8.954
6.963 [c]	0.46 ± 0.05	$\frac{7}{2}^+$	9.509
7.216 [c]	0.12 ± 0.03	$\frac{11}{2}^-$	9.709
7.373 [c]	< 0.2	$(\frac{11}{2} - \frac{15}{2})$	9.833
7.430 [c]	< 0.5	$\frac{11}{2}^-$	9.878
7.491 [f]	0.61 ± 0.09	$\frac{9}{2}^+; T = \frac{3}{2}$	9.926
7.695 [c]	1.15 ± 0.14	$\frac{5}{2}^-$	10.087
7.877 [d]	< 1	$\frac{1}{2}^+$	10.231 ± 4
7.977 [d]		$\frac{3}{2}^+$	10.308 ± 4
8.104 [c]	0.31 ± 0.11	$\frac{13}{2}^+$	10.410
8.179 [d]	13.8 ± 1.5		10.469 ± 4
8.205 [d]	6.0 ± 1.0		10.488 ± 4
8.220	5.4 ± 1.0	$\frac{3}{2}^+$	10.501 ± 4
8.245	18 ± 2		10.521 ± 4
8.277	2.5 ± 1		10.546 ± 4
8.287 [d]	5.0 ± 1.5	$\frac{3}{2}^+$	10.554 ± 4
8.307 [d]	3.7 ± 1		10.560 ± 4

[a] For references see Tables 19.9 in (1978AJ03) and 19.10 in (1983AJ01). See also footnote [c].

[b] Resonances below $E_\alpha = 5.5$ MeV are observed in (α, α_0); resonances above that energy are observed in (α, pγ) and (α, $\alpha'\gamma$), except those labelled [c].

[c] ^{15}N(α, α_0) (1988HE03). The total width shown is in the c.m. system and assumes $\Gamma_{\rm tot} = \Gamma_{\alpha_0}$.

[d] Value recalculated by reviewer (1987AJ02) from $E_{\rm x}$.

[e] See, however, reaction 32.

[f] (1989GA06). The total width is in the c.m. system and assumes $\Gamma_{\rm tot} = \Gamma_{\alpha_0}$.