Table 20.5 from (1987AJ02):
Some states of ^{20}F reported in ^{14}N(^{7}Li, p) [a]

E_x (keV)	J^π	E_x (keV)	J^π
4512 ± 4	$(3^-, 4^-, 5^+, 6^+)$	6695 ± 3	[c]
4579 ± 4 [b]		6756 ± 3	$(2^-, 3, 4^+)$
4728 ± 5	$(3^-, 4^-, 4^+, 5^+)$	6823 ± 3	
4760 ± 5	$(4 \to 6^-, 6 \to 8^+)$	6936 ± 4	
4889 ± 4 [b]	[c]	6968 ± 4	
5032 ± 4	2^-	6991 ± 7	
5064 ± 5	$(1^-, 2, 3^+)$	7034 ± 9 [d]	
5128 ± 5	$(2^-, 3, 4^+)$	7080 ± 7	
5222 ± 4	$(1, 2)^-$	7154 ± 5	
5282 ± 11	[c]	7232 ± 7	
5316 ± 7	[c]	7283 ± 4	
5350 ± 5	3^+	7319 ± 8	
5405 ± 4	[c]	7370 ± 20	
5448 ± 6 [b]		7419 ± 20	
5560 ± 6 [b]		7495 ± 5	
5612 ± 5 [b]	[c]	7655 ± 5	
5725 ± 10	$(2 \to 5)$	7734 ± 6	
5765 ± 8	3^+	7865 ± 16	
5803 ± 7	1^+	7975 ± 5	
5940 ± 5	[c]	8062 ± 8	
6021 ± 4 [b]		8113 ± 4	
6090 ± 7	(0^-)	8147 ± 6	
6160 ± 5	$((1^-), 2, 3^+)$	8268 ± 12	
6193 ± 6	$(2^-, 3, 4^+)$	8349 ± 4	
6297 ± 5 [b]	[c]	8573	
6344 ± 9 [b]	[c]	8697	
6379 ± 5 [b]	[c]	8754	
6417 ± 4	$(3^-, 4, 5, (6^+))$	8792	
6470 ± 4	[c]	8907	
6565 ± 6 [b]	[c]	8946	
6600 ± 8 [b]	[c]	9022	
6633 ± 3 [b]			

[a] (1985FO07); $E(^7\mathrm{Li}) = 16$ MeV. For the low-lying states reported in this reaction see Table 20.6 in (1983AJ01). Please note that the density of states is very high and that when J^π assignments are made [based on cross sections and the $2J_\mathrm{f} + 1$ relationship, with slopes which are different for even- and odd-parity states], these depend on the states having been resolved.

[b] Unresolved [based on data from other reactions and on spectrum shown].

[c] See (1985FO07).

[d] All the observed groups for $E_\mathrm{x} \gtrsim 7.0$ MeV appear to be due to unresolved states. See (1985FO07) for $\sigma_\mathrm{tot}(0^\circ - 90^\circ)$ and J^π.