

Table 20.7 in (1998TI06): Some states of ^{20}F reported in $^{14}\text{N}(^7\text{Li}, \text{p})^{\text{a}}$

E_x (keV)	J^π	E_x (keV)	J^π
0	2^+	5282 ± 11	c
657 ± 6	3^+	5316 ± 7	c
820 ± 5	4^+	5350 ± 5	3^+
984 ± 5	1^-	5405 ± 4	c
1049 ± 5	1^+	$5448 \pm 6^{\text{b}}$	
1310 ± 6	2^-	$5560 \pm 6^{\text{b}}$	
$1826 \pm 4^{\text{b}}$	5^+	$5612 \pm 5^{\text{b}}$	c
1969 ± 5	(3^-)	5725 ± 10	$(2, 3, 4, 5)$
2040 ± 3	2^+	5765 ± 8	3^+
2194 ± 6	3^+	5803 ± 7	1^+
2863 ± 5	(3^-)	5940 ± 5	c
$2962 \pm 3^{\text{b}}$		$6021 \pm 4^{\text{b}}$	
3171 ± 4	1^+	6090 ± 7	(0^-)
$3491 \pm 3^{\text{b}}$	0^+	6160 ± 5	$((1^-), 2, 3^+)$
$3578 \pm 5^{\text{e}}$		6193 ± 6	$(2^-, 3, 4^+)$
$3674.2 \pm 2.8^{\text{e}}$		$6297 \pm 5^{\text{b}}$	c
3756.5 ± 2.3	$(2^-, 3^+)^{\text{f}}$	$6344 \pm 9^{\text{b}}$	c
3967 ± 5	1^+	$6379 \pm 5^{\text{b}}$	c
$4080 \pm 4^{\text{e}}$		6417 ± 4	$(3^-, 4, 5, (6^+))$
$4198 \pm 3^{\text{b}}$		6470 ± 4	c
$4274 \pm 3^{\text{b}}$		$6565 \pm 6^{\text{b}}$	c
4366 ± 8	$0^{(-)}$	$6600 \pm 8^{\text{b}}$	c
4512 ± 4	$(3^-, 4^-, 5^+, 6^+)$	$6633 \pm 3^{\text{b}}$	
$4579 \pm 4^{\text{b}}$		6695 ± 3	c
4728 ± 5	$(3^-, 4^-, 4^+, 5^+)$	6756 ± 3	$(2^-, 3, 4^+)$
4760 ± 5	$(4^-, 5^-, 6^-, 6^+, 7^+, 8^+)$	6823 ± 3	
$4889 \pm 4^{\text{b}}$	c	6936 ± 4	
5032 ± 4	2^-	6968 ± 4	
5064 ± 5	$(1^-, 2, 3^+)$	6991 ± 7	
5128 ± 5	$(2^-, 3, 4^+)$	$7034 \pm 9^{\text{d}}$	
5222 ± 4	$(1, 2)^-$	7080 ± 7	

Table 20.7 in (1998TI06): Some states of ^{20}F reported in $^{14}\text{N}(^7\text{Li}, \text{p})^{\text{a}}$ (continued)

E_x (keV)	J^π	E_x (keV)	J^π
7154 ± 5		8113 ± 4	
7232 ± 7		8147 ± 6	
7283 ± 4		8268 ± 12	
7319 ± 8		8349 ± 4	
7370 ± 20		8573	
7419 ± 20		8697	
7495 ± 5		8754	
7655 ± 5		8792	
7734 ± 6		8907	
7865 ± 16		8946	
7975 ± 5		9022	
8062 ± 8			

^a $E(^7\text{Li}) = 16$ MeV. Levels for $E_x = 0 - 4366$ keV are from (1977FO11). Levels for $4512 - 9022$ are from (1985FO07). Please note that the density of states is very high and that when J^π assignments are made [based on cross sections and the $2J_f + 1$ relationship, with slopes which are different for even- and odd-parity states], these depend on the states having been resolved.

^b Unresolved.

^c See (1985FO07).

^d All the observed groups for $E_x \geq 7.0$ MeV appear to be due to unresolved states. See (1985FO07) for $\sigma_{\text{tot}}(0^\circ - 90^\circ)$ and J^π .

^e Possible doublet.

^f If single state.