Table 20.13 from (1972AJ02): States in ^{20}F from ^{19}F(d, p)^{20}F

E_x (keV) [a]			l_n [d]	J^π [e]	$(2J_f+1)S$ [j]
(1970RO06) [b]	(1969HO20) [c]	(1969HE20) [c]			
0			2	$1^+, 2^+, 3^+$	≤ 0.06
654.9 ± 1.0	655.9 ± 0.2	655.4 ± 0.5	2	$1^+, 2^+, 3^+$	2.59
821.6 ± 1.0	823.0 ± 0.3	822.6 ± 0.7	2	$1^+, 2^+, 3^+$	$\lesssim 0.3$
983.3 ± 1.0	983.9 ± 0.3	983.4 ± 0.7	2	$1^+, 2^+, 3^+$	$\lesssim 0.3$
1056.3 ± 1.0	1057.0 ± 0.2	1055.2 ± 0.6	0	$0^+, 1^+$	0.019
1310.8 ± 1.1	1309.3 ± 0.2	1308.0 ± 0.9	iso., 2 [g]	$(1^+, 2^+, 3^+)$	$\lesssim 0.02$
1843.4 ± 1.2	1843.5 ± 0.7				$\lesssim 0.11$
	2043.7 ± 0.5		2	$1^+, 2^+, 3^+$	2.32
2195.1 ± 1.5	2194.5 ± 0.6		2	$1^+, 2^+, 3^+$	0.50
2863.7 ± 1.6			3 [h]	$2^-, 3^-, 4^-$	$\lesssim 0.01$
2966.6 ± 1.7	2966.8 ± 0.6	2964.5 ± 2.0	1	$0^-, 1^-, 2^-$	0.36
3171.8 ± 2.2	3175.6 ± 1.3				$\lesssim 0.2$
	3488.5 ± 0.3		0	$0^+, 1^+$	1.20
3525.5 ± 2.6	3525.9 ± 0.5		0	$0^+, 1^+$	0.28
3586.4 ± 2.7	3586.5 ± 0.6		2 [g]	$1^+, 2^+, 3^+$	0.36
3681.0 ± 2.5					$\lesssim 0.04$
3760.8 ± 2.7					
3964.5 ± 2.5					$\lesssim 0.04$
4080.9 ± 2.5	4082.5 ± 0.8		0	$0^+, 1^+$	0.18
4198.9 ± 2.7					
4207.7 ± 2.6					
4276.3 ± 2.8			2 [g]	$1^+, 2^+, 3^+$	0.07
4311.5 ± 2.6			0	$0^+, 1^+$	0.27
4583.8 ± 3.0					
4592.2 ± 2.9					
4730.2 ± 2.9					
4763.8 ± 2.7					
4891.6 ± 2.8					
4898.2 ± 2.8					
5040.2 ± 3.1			1	$0^-, 1^-, 2^-$	
5065.5 ± 3.1					

Table 20.13 from (1972AJ02): States in ^{20}F from ^{19}F(d, p)^{20}F (continued)

E_x (keV) [a]			l_n [d]	J^π [e]	$(2J_f+1)S$ [j]
(1970RO06) [b]	(1969HO20) [c]	(1969HE20) [c]			
5224.0 ± 3.1			1	$0^-, 1^-, 2^-$	
5281.0 ± 3.3			1	$0^-, 1^-, 2^-$	
5317.1 ± 2.7					
5344.5 ± 3.3					
5450.3 ± 3.8					
5455.4 ± 3.2					
5463.4 ± 3.3					
5620.3 ± 3.3					
5762.8 ± 3.4					
5809.1 ± 2.9			(1)	$(0^-, 1^-, 2^-)$	
5933.9 ± 3.3 [f]			1	$0^-, 1^-, 2^-$	
6015.0 ± 3.8 [f]			1 [i]	$0^-, 1^-, 2^-$	
6043.3 ± 3.7					
		(1956EL1A)			
		6.25 ± 20			
		6.52 ± 20			
		6.63 ± 20	1	$0^-, 1^-, 2^-$	
		6.81 ± 20	1	$0^-, 1^-, 2^-$	
		6.98 ± 20	1	$0^-, 1^-, 2^-$	
		7.20 ± 20	1	$0^-, 1^-, 2^-$	

[a] See also (1959AJ76, 1960RI05, 1964LO1A).

[b] From measurements of proton groups.

[c] From measurements of γ-rays.

[d] (1956EL1A): see also (1963RO21, 1964EL01, 1964LO1A, 1966SC09, 1968BI09, 1970FO1J, 1970SC14, 1970ZA02, 1971LA1F, 1971RO06, 1972LA1N).

[e] J^π derived from I_n measurements only. Unique assignments derived from (p-γ) correlation work are discussed in the text and displayed in Table 20.6.

[f] (1971RO06) find $E_x = 5.932 \pm 0.005$ and 6.013 ± 0.005 MeV, respectively.

[g] (1963RO21): $E_d = 2$ MeV.

[h] (1963RO21) find $l_n = 1$.

[i] (1971RO06).

[j] (1970FO1J) and H.T. Fortune, private communication.