Table 20.15 from (1998TI06): States in ^{20}F from ^{19}F(d, p)^{20}F [a]

E_x (keV) [b]	l_n [c]	J^π	$(2J+1)S$ [e]	n, l, j [c]
0	2	2^+	0.054	$1d_{5/2}$
656.02 ± 0.03	2	3^+	2.32	$1d_{5/2}$
822.73 ± 0.03	[d]	4^+	0.32	$1g_{9/2}$
983.59 ± 0.03	[d]	1^-	0.014	$1p_{1/2}$
1056.82 ± 0.03	$0+2$	1^+	0.013	$2s_{1/2}$
1309.19 ± 0.03	[d]	2^-	0.017	$1p_{3/2}$
1823.8 ± 1.6	[d]	(5^+)	0.35	$1g_{9/2}$
1843.80 ± 0.03	[d]	2^-	0.007	$2p_{3/2}$
1970.83 ± 0.04	[d]	(3^-)	0.038	$1f_{3/2}$
2043.98 ± 0.03	2	2^+	2.32	$1d_{5/2}$
2194.30 ± 0.03	2	3^+	0.55	$1d_{5/2}$
2864.86 ± 0.10	[d]		0.044	$1f_{7/2}$
2966.11 ± 0.03	2	3^+	0.38	$1d_{3/2}$
3171.69 ± 0.14	[d]		0.019	$1d_{5/2}$
3488.41 ± 0.03	0	1^+	1.20 [f]	$2s_{1/2}$
3526.31 ± 0.04	0	0^+	0.28 [f]	$2s_{1/2}$
3586.54 ± 0.03	2	$\pi = +$	0.038	$1d_{3/2}$
3680.17 ± 0.04	2	$\pi = +$	0.031	$1d_{5/2}$
3761.0 ± 2.0	[d]		[c]	
3965.07 ± 0.04	2	$\pi = +$	0.036	$1d_{5/2}$
4082.17 ± 0.04	$0+2$	$\pi = +$	0.13	$1s_{1/2}$
4199.3 ± 2.7				
	[d]		0.083	$1d_{3/2}$
4208.1 ± 2.6				
4277.09 ± 0.04	2	$\pi = +$	0.087	$1d_{5/2}$
4312.0 ± 2.6	0	$(0, 1)^+$	0.20	$2s_{1/2}$
4371.47 ± 0.11				
4509 ± 3				
4584.6 ± 3.0			0.02	$2p_{3/2}$
	1	$(0-2)^-$		
4591.72 ± 0.07			(< 0.05)	$(1f_{7/2})$

Table 20.15 from (1998TI06): States in ^{20}F from ^{19}F(d, p)^{20}F [a] (continued)

E_x (keV) [b]	l_n [c]	J^π	$(2J+1)S$ [e]	n, l, j [c]
4731.2 ± 2.9	2, 3			
4764.8 ± 2.7	2, 3			
4892.76 ± 0.17				
4899.4 ± 2.8				
5041.5 ± 3.1				
5066.8 ± 3.1	2	$(1, 2, 3)^+$	0.09	$1d_{5/2}$
5130 ± 3				
5226.1 ± 0.4	1, 3		0.09	$2p_{3/2}$
5282.79 ± 0.17	0	$(1, 0)^+$	0.34	$2s_{1/2}$
5319.17 ± 0.04	2 or $1+3$	$(1, 2, 3)^+$ or 2^-	0.10	$1d_{5/2}$
5352 ± 3	2	$(1, 2, 3)^+$	0.06	$1d_{5/2}$
5407 ± 3				
5452.1 ± 3.8				
5457.2 ± 3.2				
5465.89 ± 0.17	2	$(1, 2, 3)^+$	0.27	$1d_{5/2}$
5555.34 ± 0.04	1	$(0, 1, 2)^-$	0.03	$2p_{3/2}$
5588 ± 2				
5623.13 ± 0.06	[d]			
5710 ± 6	[d]			
5764.9 ± 3.4	2	$(1, 2, 3)^+$	0.15	$1d_{5/2}$
5810.1 ± 0.4	$0+2$, or $1+3$	$(2^-, 1^+)$		
5936.13 ± 0.03	$1(+3)$	$(1^-, 2^-)$	0.43	$2p_{3/2}$
6017.78 ± 0.03	$1+3$	(2^-)	0.68	$2p_{3/2}$
			1.40	$1f_{7/2}$
6044.98 ± 0.08				

[a] For complete references see Table 20.15 in (1978AJ03) and see also Table 20.14 in (1983AJ01).

[b] Level energies from Table 20.5.

[c] Assumed in analysis; $E_d = 12$ MeV.

[d] Weak groups.

[e] (1972FO11, 1974FO21).

[f] At $E_d = 16$ MeV.