

Table 20.31 from (1972AJ02): Neutron groups from $^{19}\text{F}(\text{d}, \text{n})^{20}\text{Ne}$ ^a

E_x (MeV \pm keV)				l_p ^a	$J^\pi; T$
(1958MO02) ^b	(1963FE1B)	(1968LA03)	(1969RI01)		
0		c	c	0	0^+
1.74 \pm 30				2	2^+
4.20 \pm 40					
4.96 \pm 50					
5.62 \pm 40					
6.80 \pm 10		c	c	0	0^+
7.16 \pm 90					
7.41 \pm 50					
7.90 \pm 40					
(8.71 \pm 10)					
9.15 \pm 40	9.17 \pm 30				
	9.37 \pm 20				
(9.50 \pm 40)	9.50 \pm 20				
	9.60 \pm 20				
	9.92 \pm 30				
10.01 \pm 30	10.00 \pm 30		c		
	10.30 \pm 30	c	d,i	h	h
			10.59 ^c		
	11.00 \pm 20	10.853 \pm 10 ^j	10.879 \pm 40	2	$T = 1$ ^f
			11.03 \pm 80 ⁱ		
	11.32 \pm 20	11.233 \pm 10	11.26 \pm 40	0	$1^+; (1)$ ^{e,f}
	11.66 \pm 30	11.549 \pm 10	11.568 \pm 35	2	$(T = 1)$ ^f
			11.915 \pm 30		
		12.086 \pm 10		g	$(T = 1)$ ^f
		12.150 \pm 10	12.179 \pm 25	g	$(T = 0)$ ^f
		12.200 \pm 10		g	$(T = 1)$ ^f
		12.245 \pm 10		2	$T = 1$ ^f
		12.379 \pm 10	12.397 \pm 20	0	$T = 0$ ^f
			13.086 \pm 15		
			13.170 \pm 15	0	$1^+; (1)$

Table 20.31 from (1972AJ02): Neutron groups from $^{19}\text{F}(d, n)^{20}\text{Ne}$ ^a (continued)

E_x (MeV \pm keV)				l_p ^a	$J^\pi; T$
(1958MO02) ^b	(1963FE1B)	(1968LA03)	(1969RI01)		
			13.481 \pm 15	0	1 ⁺ ; 1 ^e
			13.650 \pm 15	0	(0 ⁺); 1 ^e
			13.882 \pm 15		

^a See also [Table 20.16 in \(1959AJ76\)](#).

^b Evidence for some other states is also reported.

^c Observed but no parameters reported.

^d $E_x = 10.31 \pm 0.07$ MeV ([1964SA09](#)), $E_x = 10.33 \pm 0.05$ MeV ([1966RI05](#)).

^e ([1969RI01](#)).

^f ([1968LA03](#)).

^g Weak group.

^h See ([1964SA09](#), [1966RI05](#)).

ⁱ This state decays to $^{20}\text{Ne}^*(1.63)$ ([1966RI05](#)).

^j Data of ([1968LA03](#)) are adjusted downward by 26 keV: see ([1969RI01](#)).