

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

$E_x$ (MeV $\pm$ keV)				$l_p$ <sup>a</sup>	$J^\pi; T$
(1958MO02) <sup>b</sup>	(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 <sup>c</sup>		
	11.00 $\pm$ 20	10.853 $\pm$ 10 <sup>j</sup>	10.879 $\pm$ 40	2	$T = 1$ <sup>f</sup>
			11.03 $\pm$ 80 <sup>i</sup>		
	11.32 $\pm$ 20	11.233 $\pm$ 10	11.26 $\pm$ 40	0	$1^+; (1)$ <sup>e,f</sup>
	11.66 $\pm$ 30	11.549 $\pm$ 10	11.568 $\pm$ 35	2	$(T = 1)$ <sup>f</sup>
			11.915 $\pm$ 30		
		12.086 $\pm$ 10		g	$(T = 1)$ <sup>f</sup>
		12.150 $\pm$ 10	12.179 $\pm$ 25	g	$(T = 0)$ <sup>f</sup>
		12.200 $\pm$ 10		g	$(T = 1)$ <sup>f</sup>
		12.245 $\pm$ 10		2	$T = 1$ <sup>f</sup>
		12.379 $\pm$ 10	12.397 $\pm$ 20	0	$T = 0$ <sup>f</sup>
			13.086 $\pm$ 15		
			13.170 $\pm$ 15	0	$1^+; (1)$

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

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

<sup>a</sup> See also [Table 20.16 in \(1959AJ76\)](#).

<sup>b</sup> Evidence for some other states is also reported.

<sup>c</sup> Observed but no parameters reported.

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

<sup>e</sup> ([1969RI01](#)).

<sup>f</sup> ([1968LA03](#)).

<sup>g</sup> Weak group.

<sup>h</sup> See ([1964SA09](#), [1966RI05](#)).

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

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