

Table 20.34 from (1978AJ03): 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, 1968LA03) <sup>b</sup>	(1969RI01)		
0		0	$0^+$
1.74 $\pm$ 30		2	$2^+$
4.20 $\pm$ 40			
4.96 $\pm$ 50			
5.62 $\pm$ 40			
6.80 $\pm$ 10		0	$0^+$
7.16 $\pm$ 90			
7.41 $\pm$ 50			
7.90 $\pm$ 40			
(8.71 $\pm$ 10)			
9.15 $\pm$ 40			
(9.50 $\pm$ 40)			
10.01 $\pm$ 30			
10.30 <sup>c</sup>	d		
	10.59		
10.853 $\pm$ 10	10.879 $\pm$ 40	2	$T = 1$ <sup>f</sup>
	11.03 $\pm$ 80 <sup>d,h</sup>		
11.233 $\pm$ 10	11.26 $\pm$ 40	0	$1^+; (1)$ <sup>f,g</sup>
11.549 $\pm$ 10	11.568 $\pm$ 35	2	$(T = 1)$ <sup>f</sup>
	11.915 $\pm$ 30		
12.086 $\pm$ 10		e	$(T = 1)$ <sup>f</sup>
12.150 $\pm$ 10		e	$(T = 0)$ <sup>f</sup>
	12.179 $\pm$ 25		
12.200 $\pm$ 10		e	$(T = 1)$ <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	$1^+; (1)$ <sup>g</sup>
	13.481 $\pm$ 15	0	$1^+; 1$ <sup>g</sup>
	13.650 $\pm$ 15	0	$(0^+); 1$ <sup>g</sup>

Table 20.34 from (1978AJ03): Neutron groups from  $^{19}\text{F}(\text{d}, \text{n})^{20}\text{Ne}$  <sup>a</sup> (continued)

$E_x$ (MeV $\pm$ keV)		$l_p$ <sup>a</sup>	$J^\pi; T$
(1958MO02, 1968LA03) <sup>b</sup>	(1969RI01)		
	$13.882 \pm 15$		

<sup>a</sup> See also Table 20.31 in (1972AJ02).

<sup>b</sup> States below 10.1 MeV are from (1958MO02) who also report evidence for some other states; higher states are from (1968LA03). Data of (1968LA03) are adjusted downward by 26 keV: see (1969RI01).

<sup>c</sup>  $E_x = 10.31 \pm 0.07$  (1964SA09),  $10.33 \pm 0.05$  MeV (1969RI05).

<sup>d</sup> This state decays to  $^{20}\text{Ne}^*(1.63)$  (1969RI05).

<sup>e</sup> Weak group.

<sup>f</sup> (1968LA03).

<sup>g</sup> (1969RI01).

<sup>h</sup> A study of  $^{19}\text{F}(\text{d}, \text{n})$  thresholds by (1960BU07) suggested states at  $E_x = 11.08, 11.31, 11.66, 11.84, 12.16, 12.24$  and  $12.48$  MeV [ $\pm 20$  keV]: see Table 20.32 in (1972AJ02).