

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>	<sup>d</sup>		
	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).