

Table 20.31 from (1983AJ01): Neutron groups from $^{19}\text{F}(\text{d}, \text{n})^{20}\text{Ne}$ ^a

| E_x (MeV \pm keV) | l_p | $J^\pi; T$ |
|-----------------------------|--------------|------------|
| 0 | 0 | 0^+ |
| 1.74 ± 30 | 2 | 2^+ |
| 4.20 ± 40 | | |
| 4.96 ± 50 | | |
| 5.62 ± 40 | | |
| 6.80 ± 10 | 0 | 0^+ |
| 7.16 ± 90 | | |
| 7.41 ± 50 | | |
| 7.90 ± 40 | | |
| (8.71 ± 10) | | |
| 9.15 ± 40 | | |
| (9.50 ± 40) | | |
| 10.01 ± 30 | | |
| 10.32 ± 50 | | |
| 10.59 | | |
| 10.879 ± 40 | 2 | $T = 1$ |
| 11.03 ± 80 ^b | | |
| 11.26 ± 40 | 0 | $1^+; (1)$ |
| 11.568 ± 35 | 2 | $(T = 1)$ |
| 11.915 ± 30 | | |
| (12.09 ± 10) | ^c | $(T = 1)$ |
| (12.15 ± 10) | ^c | $(T = 0)$ |
| 12.179 ± 25 | | |
| (12.20 ± 10) | ^c | $(T = 1)$ |
| 12.25 ± 10 | 2 | $T = 1$ |
| 12.397 ± 20 | 0 | $T = 0$ |
| 13.086 ± 15 | | |
| 13.170 ± 15 | 0 | $1^+; (1)$ |
| 13.481 ± 15 | 0 | $1^+; 1$ |
| 13.650 ± 15 | 0 | $(0^+); 1$ |
| 13.882 ± 15 | | |

^a For references and additional comments see [Tables 20.34 in \(1978AJ03\)](#) and [20.31 and 20.32 in \(1972AJ02\)](#).

^b This state decays to $^{20}\text{Ne}^*(1.63)$.

^c Weak group.