

Table 17.4 from (1977AJ02):

Excited states of ^{17}N from $^{11}\text{B}(^7\text{Li}, \text{p})^{17}\text{N}$, $^{18}\text{O}(\text{d}, ^3\text{He})^{17}\text{N}$ and $^{18}\text{O}(\text{t}, \alpha)^{17}\text{N}$ ^a

| E_x (keV) | | | | l^c | J^π ^d |
|-------------------------|-------------------------------|-------------------------|----------------------------|-------|--|
| (1974RO27) ^b | (1965HA05) ^b | (1966MC05) ^b | (1971HA48) ^b | | |
| | | | 0 | 1 | $\frac{1}{2}^-$ |
| 1373.7 ± 0.5 | 1374.1 ± 0.4 ⁱ | | 1370 ± 20 | 1 | $\frac{3}{2}^-$ |
| 1850.0 ± 0.5 | 1849.5 ± 0.3 ⁱ | | | | $\frac{1}{2}^+$ |
| | | | 1870 ± 20 | 0 | |
| 1906.8 ± 0.4 | 1906.9 ± 0.5 ⁱ | | | | $\frac{5}{2}^-$ ⁱ |
| 2526.3 ± 1.0 | 2525.9 ± 0.6 ⁱ | | 2540 ± 20 | 2 | $\frac{5}{2}^+$ |
| 3128.7 ± 0.6 | 3129.2 ± 0.6 ⁱ | | | | $\frac{7}{2}^{(-)}$ ⁱ |
| | | | 3180 ± 30 | 1 | |
| 3203 ± 2 | 3204.4 ± 0.9 ⁱ | | | | $\frac{3}{2}^-$ ⁱ |
| 3628.7 ± 0.7 | | | | | $\geq \frac{3}{2}$ ^g |
| | | | 3660 ± 30 | 1 | |
| 3663 ± 4 | | | | | $(\frac{1}{2}, \frac{3}{2})^-$ |
| 3906.0 ± 2.0 | | | | | $\leq \frac{7}{2}$ |
| 4006.4 ± 2.0 | | | 4020 ± 40 | | $\frac{3}{2}, \frac{5}{2}, \frac{7}{2}$ |
| 4208 ± 3 | | | | | $\leq \frac{5}{2}$ |
| 4415 ± 3 | 4470 ± 10 | 4470 ± 40 | | | $\leq \frac{7}{2}$ |
| 5170 ± 2 | | | | | $\frac{3}{2} \leq J \leq \frac{9}{2}$ ^h |
| 5195 ± 3 | 5210 ± 20 | 5230 ± 40 | | | $(\frac{1}{2}, \frac{3}{2}, \frac{5}{2})^+$ |
| 5514 ± 3 | 5530 ± 20 | 5510 ± 40 | $\equiv 5523$ ^e | 1 | $(\frac{1}{2}, \frac{3}{2})^-$ |
| 5770 ± 3 | 5830 ± 20 | 5830 ± 40 | 5820 ± 40 | | $\leq \frac{7}{2}$ |
| | 6070 ± 50 | 6090 ± 40 | | | |
| | 6250 ± 30 | 6230 ± 40 | | | |
| | 6450 ± 40 | 6410 ± 40 | | | |
| | 6600 ± 30 | 6620 ± 40 | | | |
| | 6990 ± 30 | 6990 ± 40 | 6990 ± 30 | 1 | $(\frac{3}{2}, \frac{1}{2})^-$ |
| | | 7170 ± 40 | | | |
| | (7260 ± 50) | | | | |
| | | 7370 ± 40 | | | |
| | (7510 ± 70) | | | | |

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| E_x (keV) | | | | l ^c | J^π ^d |
|-------------------------|-------------------------|-------------------------|-------------------------|------------------|----------------------|
| (1974RO27) ^b | (1965HA05) ^b | (1966MC05) ^b | (1971HA48) ^b | | |
| | | 7630 ± 40 | | | |
| | 7790 ± 20 | 7730 ± 40 | | | |
| | 8000 ± 30 | 8000 ± 40 | | | |
| | (8250 ± 30) | 8140 ± 40 | | | |
| | | 8550 ± 40 ^f | | | |
| | | 8930 ± 40 | | | |
| | | 9260 ± 40 | | | |
| | | 9740 ± 40 | | | |

^a See also Table 17.3 in (1971AJ02) for the earlier work. The work reported in col. A in that table has not been published.

^b $^{11}\text{B}(^7\text{Li}, \text{p})^{17}\text{N}$.

^c $^{18}\text{O}(\text{d}, ^3\text{He})^{17}\text{N}$.

^d (1971HA48, 1974RO27), except for values labeled ⁱ.

^e Used as calibration point.

^f This state and the ones below are broad.

^g Probably $(\frac{7}{2}, \frac{9}{2})^-$ (1974RO27).

^h Probably $(\frac{7}{2}, \frac{9}{2})^+$ (1974RO27).

ⁱ $^{18}\text{O}(\text{t}, \alpha)^{17}\text{N}$ (1976GU14).