

Table 17.4 from (1982AJ01):
 Excited states of ^{17}N from $^{11}\text{B}(^7\text{Li}, \text{p})$, $^{18}\text{O}(\text{d}, ^3\text{He})$ and $^{18}\text{O}(\text{t}, \alpha)$ ^a

E_x (keV)		l^f	$J^\pi g$	C^2S^f
A	B			
	0	1	$\frac{1}{2}^-$	2.02
1373.7 ± 0.5	1374.1 ± 0.4^e	1	$\frac{3}{2}^-$	0.38
1850.0 ± 0.5	1849.5 ± 0.3^e	0^h	$\frac{1}{2}^+$	0.41 ± 0.14
1906.8 ± 0.4	1906.9 ± 0.5^e		$\frac{5}{2}^-$	
2526.3 ± 1.0	2525.9 ± 0.6^e	2	$\frac{5}{2}^+$	0.53 ± 0.17
3128.7 ± 0.6	3129.2 ± 0.6^e		$\frac{7}{2}^{(-)}$	
3203 ± 2	3204.4 ± 0.9^e	1	$\frac{3}{2}^-$	0.05
3628.7 ± 0.7			$> \frac{3}{2}^i$	
3663 ± 4			$(\frac{1}{2}, \frac{3}{2})^-$	
3906.0 ± 2.0			$\leq \frac{7}{2}$	
4006.4 ± 2.0	4000^f	(1)	$\frac{3}{2}^{(-)}$	0.04
4208 ± 3			$\leq \frac{5}{2}$	
4415 ± 3			$\leq \frac{7}{2}$	
5170 ± 2	5170^f	(2)	$\frac{3}{2} \leq J \leq \frac{9}{2}^j$	0.08
5195 ± 3			$(\frac{1}{2}, \frac{3}{2}, \frac{5}{2})^+$	
5514 ± 3	$\equiv 5523^f$	1	$\frac{3}{2}^-^k$	1.83
5770 ± 3			$\leq \frac{7}{2}$	
$6080 \pm 30^{b,c}$				
$6240 \pm 25^{b,c}$				
$6430 \pm 30^{b,c}$				
$6610 \pm 25^{b,c}$				
	$6990^{f,h}$	1	$(\frac{3}{2})^-^k$	0.32
7170 ± 40^c				
7370 ± 40^c				
	7510^f	(1)	$(\frac{1}{2}, \frac{3}{2})^-$	0.09
7630 ± 40^c				
7730 ± 40^c				
$8000 \pm 25^{b,c}$				
8140 ± 40^c				

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E_x (keV)		l ^f	J^π ^g	C^2S ^f
A	B			
8550 ± 40 ^{c,d}				
8930 ± 40 ^c				
9260 ± 40 ^c				
9740 ± 40 ^c				
	10140 ^f	(1)	$(\frac{1}{2}, \frac{3}{2})^-$	0.5

A: $^{11}\text{B}(^7\text{Li}, \text{p})^{17}\text{N}$: (1974RO27), except for states labelled ^b and ^c.

B: $^{18}\text{O}(\text{t}, \alpha)^{17}\text{N}$ (1976GU14) and $^{18}\text{O}(\text{d}, ^3\text{He})^{17}\text{N}$ (1977MA10).

^a See also Table 17.4 in (1977AJ02).

^b (1965HA05).

^c (1966MC05).

^d This state and the ones below are broad.

^e (1976GU14).

^f $^{18}\text{O}(\text{d}, ^3\text{He})^{17}\text{N}$ (1977MA10); $E_d = 52$ MeV; DWBA analysis.

^g (1974RO27, 1976GU14, 1977MA10).

^h Unresolved.

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

^j Probably $(\frac{7}{2}, \frac{9}{2})^+$ (1974RO27); see, however, (1977MA10).

^k $^{18}\text{O}(\text{d}, ^3\text{He})^{17}\text{N}$ (1981MA14); $E_{\bar{d}} = 52$ MeV.