

Table 17.5 from (1986AJ04):  
 Excited states of  $^{17}\text{N}$  from  $^{11}\text{B}(^7\text{Li}, \text{p})$ ,  $^{18}\text{O}(\text{d}, ^3\text{He})$  and  $^{18}\text{O}(\text{t}, \alpha)$  <sup>a</sup>

$E_x$ (keV)		$l$	$J^\pi$	$C^2S$
A	B			
	0	1	$\frac{1}{2}$	2.02
$1373.7 \pm 0.5$	$1374.1 \pm 0.4$	1	$\frac{3}{2}^-$	0.38
$1850.0 \pm 0.5$	$1849.5 \pm 0.3$	0	$\frac{1}{2}^+$	$0.41 \pm 0.14$
$1906.8 \pm 0.4$	$1906.9 \pm 0.5$		$\frac{5}{2}^-$	
$2526.3 \pm 1.0$	$2525.9 \pm 0.6$	2	$\frac{5}{2}^+$	$0.53 \pm 0.17$
$3128.7 \pm 0.6$	$3129.2 \pm 0.6$		$\frac{7}{2}^{(-)}$	
$3203 \pm 2$	$3204.4 \pm 0.9$	1	$\frac{3}{2}^-$	0.05
$3628.7 \pm 0.7$			$> \frac{3}{2}^{\text{d}}$	
$3663 \pm 4$			$(\frac{1}{2}, \frac{3}{2})^-$	
$3906.0 \pm 2.0$			$\leq \frac{7}{2}$	
$4006.4 \pm 2.0$	4000	(1)	$\frac{3}{2}^{(-)}$	0.04
$4208 \pm 3$			$\leq \frac{5}{2}$	
$4415 \pm 3$			$\leq \frac{7}{2}$	
$5170 \pm 2$	5170	(2)	$\frac{3}{2} \leq J \leq \frac{9}{2}^{\text{e}}$	0.08
$5195 \pm 3$			$(\frac{1}{2}, \frac{3}{2}, \frac{5}{2})^+$	
$5514 \pm 3$	$\equiv 5523$	1	$\frac{3}{2}^-$	1.83
$5770 \pm 3$			$\leq \frac{7}{2}$	
$6080 \pm 30$				
$6240 \pm 25$				
$6430 \pm 30$				
$6610 \pm 25$				
$6990 \pm 20$	$6990^{\text{c}}$	1	$(\frac{3}{2})^-$	0.32
$7170 \pm 40$				
$7370 \pm 40$				
	7510	(1)	$(\frac{1}{2}, \frac{3}{2})^-$	0.09
$7630 \pm 40$				
$7730 \pm 40$				
$8000 \pm 25$				
$8140 \pm 40$				

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$E_x$ (keV)		$l$	$J^\pi$	$C^2S$
A	B			
$8550 \pm 40$ <sup>b</sup>				
$8930 \pm 40$				
$9260 \pm 40$				
$9740 \pm 40$	10140	(1)	$(\frac{1}{2}, \frac{3}{2})^-$	0.5

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

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

<sup>a</sup> See also Tables 17.4 in (1977AJ02, 1982AJ01) for references and additional information.

<sup>b</sup> This state and the ones below are broad.

<sup>c</sup> Unresolved.

<sup>d</sup> Probably  $(\frac{7}{2}, \frac{9}{2})^-$ .

<sup>e</sup> Probably  $(\frac{7}{2}, \frac{9}{2})^+$ .