

Table 17.4 from (1977AJ02):

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

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

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$E_x$ (keV)				$l$ <sup>c</sup>	$J^\pi$ <sup>d</sup>
(1974RO27) <sup>b</sup>	(1965HA05) <sup>b</sup>	(1966MC05) <sup>b</sup>	(1971HA48) <sup>b</sup>		
		7630 ± 40			
	7790 ± 20	7730 ± 40			
	8000 ± 30	8000 ± 40			
	(8250 ± 30)	8140 ± 40			
		8550 ± 40 <sup>f</sup>			
		8930 ± 40			
		9260 ± 40			
		9740 ± 40			

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

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

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

<sup>d</sup> (1971HA48, 1974RO27), except for values labeled <sup>i</sup>.

<sup>e</sup> Used as calibration point.

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

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

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

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