

Table 17.3 from (1971AJ02): Levels of  $^{17}\text{N}$  from  $^{11}\text{B}(^7\text{Li}, \text{p})^{17}\text{N}$  and  $^{18}\text{O}(\text{t}, \alpha)^{17}\text{N}$

$E_x$ (MeV $\pm$ keV)					
(1959LI47) <sup>a</sup>	(1965HA05) <sup>a</sup>	(1966MC05) <sup>a</sup>	(1969TH01) <sup>b</sup>	(1960JA13) <sup>c</sup>	A
0				0	0 <sup>g</sup>
1.32 $\pm$ 80			1.3707 $\pm$ 0.8	1.374 $\pm$ 18	1.381 $\pm$ 12
				1.851 $\pm$ 18	1.865 $\pm$ 12 <sup>h</sup>
1.89 $\pm$ 80			1.9080 $\pm$ 0.8	1.906 $\pm$ 18	1.921 $\pm$ 12
2.50 $\pm$ 80 <sup>d</sup>			2.5279 $\pm$ 3.6	2.536 $\pm$ 18	2.530 $\pm$ 15
2.82 $\pm$ 80					
			3.1342 $\pm$ 4.6	3.132 $\pm$ 18	3.138 $\pm$ 12
3.27 $\pm$ 90			3.2220 $\pm$ 7.1	3.212 $\pm$ 18	3.216 $\pm$ 12
3.57 $\pm$ 90			3.6656 $\pm$ 6.5	3.652 $\pm$ 25	3.650 $\pm$ 12
					3.684 $\pm$ 12
3.86 $\pm$ 90					3.928 $\pm$ 12
				4.010 $\pm$ 25	4.023 $\pm$ 12
4.18 $\pm$ 90				(4.215 $\pm$ 25) <sup>f</sup>	i
	4.47 $\pm$ 10	4.47 $\pm$ 40			i
					5.176 $\pm$ 15
	5.21 $\pm$ 20	5.23 $\pm$ 40			5.195 $\pm$ 15
	5.53 $\pm$ 20	5.51 $\pm$ 40			5.521 $\pm$ 15 <sup>g</sup>
					5.787 $\pm$ 15
	5.83 $\pm$ 20	5.83 $\pm$ 40			5.833 $\pm$ 15
	6.07 $\pm$ 50	6.09 $\pm$ 40			
	6.25 $\pm$ 30	6.23 $\pm$ 40			
	6.45 $\pm$ 40	6.41 $\pm$ 40			
	6.60 $\pm$ 30	6.62 $\pm$ 40			
	6.99 $\pm$ 30	6.99 $\pm$ 40			
	(7.26 $\pm$ 50)	7.17 $\pm$ 40			
		7.37 $\pm$ 40			
	(7.51 $\pm$ 70)				
		7.63 $\pm$ 40			
	7.79 $\pm$ 20	7.73 $\pm$ 40			
	8.00 $\pm$ 30	8.00 $\pm$ 40			

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$E_x$ (MeV $\pm$ keV)					
(1959LI47) <sup>a</sup>	(1965HA05) <sup>a</sup>	(1966MC05) <sup>a</sup>	(1969TH01) <sup>b</sup>	(1960JA13) <sup>c</sup>	A
	(8.25 $\pm$ 30)	8.14 $\pm$ 40			
		8.55 $\pm$ 40 <sup>e</sup>			
		8.93 $\pm$ 40			
		9.26 $\pm$ 40			
		9.74 $\pm$ 40			

A: A.D.W. Jones, private communication:  $^{18}\text{O}(\text{t}, \alpha)^{17}\text{N}$ . See also (1968JO1G, 1969JO1L).

<sup>a</sup> Measurement of proton groups from  $^{11}\text{B}(^7\text{Li}, \text{p})^{17}\text{N}$ .

<sup>b</sup> Measurement of  $\gamma$ -ray from  $^{11}\text{B}(^7\text{Li}, \text{p})^{17}\text{N}$ .

<sup>c</sup> Measurement of alpha groups from  $^{18}\text{O}(\text{t}, \alpha)^{17}\text{N}$ .

<sup>d</sup> The proton groups to this level and the ones below are not completely resolved.

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

<sup>f</sup> This may represent a doublet.

<sup>g</sup>  $l = 1$ .

<sup>h</sup>  $l = 0$ .

<sup>i</sup> States observed but  $E_x$  not determined.