

Table 16.11 from (1993TI07): Levels of ^{16}N from $^{15}\text{N}(\text{d}, \text{p})$ and $^{18}\text{O}(\text{d}, \alpha)$ ^a

E_x ^b (MeV \pm keV)	l_n ^b	E_x ^c (MeV \pm keV)	$J\pi$ ^a
0		0	2^-
0.1201 ± 0.5 ^d		0.119 ± 15	0^-
0.2962 ± 1.0 ^e		0.301 ± 15	3^-
0.3973 ± 1.0 ^e		0.400 ± 15	1^-
3.365 ± 10		3.358 ± 15	1^-
3.523 ± 10	2 or 1 + 3	3.524 ± 15	2^+
3.964 ± 10	3	3.964 ± 15	3^+ ^h
4.325 ± 10	1	4.324 ± 15	1^+
4.40	0	4.383 ± 15	$(0, 1)^-$
4.715 ± 10	1		$(1, 2, 3)^+$
4.780 ± 10		4.787 ± 15	
(4.90 ± 10)			
5.032 ± 10	2	5.065 ± 15	2^-
5.128 ± 10	≥ 2		≥ 2
		5.139 ± 15	
5.150 ± 10	2		$(2, 3)^-$
5.231 ± 10	3	5.240 ± 15	3^+
5.310 ± 10			
5.523 ± 10	3	5.528 ± 15	3^+
5.739 ± 10	2	5.740 ± 15	$(1, 2)^i$
		6.01 ± 15	
6.170 ± 10	≥ 3	6.168 ± 15	4^- ^h
(6.28 ± 10)	1		$(0, 1, 2)^+$
6.376 ± 10	2	6.37 ± 15	$(1, 2, 3)^-$
6.431 ± 10			
6.514 ± 10	1	6.512 ± 15	$(0, 1, 2)^+$
6.609 ± 10		6.620 ± 15	
(6.79 ± 10)			
6.847 ± 10		6.852 ± 15	
7.034 ± 10		7.01 ± 15	
7.135 ± 10		7.141 ± 15	

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(continued)

E_x ^b (MeV \pm keV)	l_n ^b	E_x ^c (MeV \pm keV)	J^π ^a
7.250 \pm 10		7.247 \pm 15	
7.577 \pm 10		7.596 \pm 15	
7.638 \pm 10		7.64 \pm 15	
7.676 \pm 10		7.683 \pm 15	
7.840 \pm 10		7.88 \pm 15	
		8.06 \pm 15	
		8.18 \pm 15	
		8.286 \pm 15	
		8.374 \pm 15	
		8.49 \pm 30 ^f	
		8.819 \pm 15 ^g	
		9.035 \pm 15	
		(9.16 \pm 30)	
		(9.34 \pm 30)	
		9.459 \pm 15	
		(9.66 \pm 40)	
		9.794 \pm 15 ^g	
		9.90 \pm 30	
		10.055 \pm 15 ^g	
		(10.17 \pm 30)	
		(10.26 \pm 30)	

^a For the earlier references and additional information see [Table 16.9 in \(1982AJ01\)](#).

^b $^{15}\text{N}(\text{d}, \text{p})^{16}\text{N}$.

^c $^{18}\text{O}(\text{d}, \alpha)^{16}\text{N}$.

^d $\tau_m = 7.58 \pm 0.09 \mu\text{sec}$.

^e $\tau_m = 131.7 \pm 1.9$ and 5.63 ± 0.05 psec, respectively, for $^{16}\text{N}^*(0.30, 0.40)$; $|g| = 0.532 \pm 0.020$ for $^{16}\text{N}^*(0.30)$ ([1984BI03](#)).

^f Γ for this level and the ones listed below $\leq 40 - 50$ keV.

^g These levels appear to be correlated with thresholds for neutron emission to excited states of ^{15}N .

^h ([1982MA25](#)): $E_d = 52$ MeV.

ⁱ A closely spaced doublet appears to be present. At least one of the states has unnatural parity.