

Table 15.15 from (1981AJ01): ^{15}N states from $^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}$

E_x (MeV \pm keV)		l_n ^b	J^π ^c	S ^d
A	B			
0		1	$\frac{1}{2}^-$	1.45 ± 0.15 ^g
5.276 ± 6	5.27159 ± 0.46	2	$\frac{5}{2}^+$	$< 0.15 \pm 0.07$
5.305 ± 6	5.30003 ± 0.43	e		$< 0.02 \pm 0.01$
6.328 ± 6		1	$\frac{3}{2}^-$	0.07 ± 0.02 ($j_n = \frac{1}{2}$); 0.04 ± 0.01 ($j_n = \frac{3}{2}$)
7.164 ± 6	7.1555 ± 1.7	2	$\frac{5}{2}^+$	0.92 ± 0.07
7.309 ± 6 ^a		0 + 2	$\frac{3}{2}^+$	0.87 ± 0.07 ($j_n = \frac{1}{2}$); 0.07 ± 0.04 ($j_n = \frac{5}{2}$)
7.570 ± 8	7.5671 ± 1.0	2	$\frac{7}{2}^+$	0.89 ± 0.05
8.315 ± 6 ^a	8.309 ± 4.1	0 + 2	$\frac{1}{2}^+$	0.77 ± 0.08 ($j_n = \frac{1}{2}$); 0.11 ± 0.05 ($j_n = \frac{3}{2}$)
8.582 ± 5 ^a	8.573 ± 3.2	0 + 2	$\frac{3}{2}$	0.05 ± 0.03 ($j_n = \frac{1}{2}$); 0.12 ± 0.05 ($j_n = \frac{5}{2}(\frac{3}{2})$)
9.056 ± 5		0	$(\frac{1}{2}, \frac{3}{2})^+$	
9.159 ± 6		f		
9.226 ± 6		1	$(\frac{1}{2}^-)$	
9.764 ± 6		1	$(\frac{1}{2}^-)$	
9.831 ± 6				
9.929 ± 6		e		
10.071 ± 6		2, 0	$\frac{3}{2}^+$	
10.456 ± 7		(1)		
10.541 ± 7				
10.702 ± 7		2, 0	$\frac{3}{2}^+$	
10.809 ± 9		1	$\frac{5}{2}^-$	
11.2		1	$\frac{5}{2}^-$	

A: (1950MA65, 1954SP01, 1956DO41, 1966GA08).

B: (1965AL19, 1965WA16, 1966AL18, 1967CH19).

^a 7307, 8319 and 8577 keV (± 8 keV) (1956DO41).

^b See also Tables 15.15 in (1970AJ04, 1976AJ04).

^c (1980KR01) and Tables 15.15 in (1970AJ04, 1976AJ04).

^d (1980KR01). See also (1969PH02) and (1972AM06). values shown are close to those given by the extreme weak coupling model (1980KR01).

^e No clear stripping pattern.

^f Doublet.

^g $S_{\text{DWBA}} = 0.89 \pm 0.2$, $S_{\text{IA}} = 0.82 \pm 0.08$ (1977HE01; $E_d = 52$ MeV).