

Table 15.9 from (1959AJ76):  $^{15}\text{N}$  levels from  $^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}$

$E_x$ (MeV)			$l_n$	$(2J + 1)\theta^{2j}$	$J^\pi$
A	B	C			
0			1 <sup>a</sup>	0.097	$\frac{1}{2}^- , \frac{3}{2}^- , \frac{5}{2}^-$
5.276 ± 0.006	5.280 ± 0.010		2 <sup>b</sup>	0.03	$\leq \frac{7}{2}^+$
5.305 ± 0.006			X <sup>b,c</sup>		
6.328 ± 0.006	6.330 ± 0.010		1 <sup>d</sup>	0.035	$\frac{1}{2}^- , \frac{3}{2}^- , \frac{5}{2}^-$
7.164 ± 0.006	7.165 ± 0.010		2 <sup>e</sup>	0.32	$\leq \frac{7}{2}^+$
7.309 ± 0.006	7.314 ± 0.010	7.307 ± 0.008	0 <sup>e</sup>	0.45	$\frac{1}{2}^+ , \frac{3}{2}^+$
	7.575 ± 0.010	7.570 ± 0.008	2 <sup>f</sup>	0.41	$\leq \frac{7}{2}^+$
8.315 ± 0.006	8.316 ± 0.010	8.319 ± 0.008	0 <sup>d</sup>	0.40	$\frac{1}{2}^+ , \frac{3}{2}^+$
	8.571 ± 0.010	8.577 ± 0.008	0 + 2 <sup>g</sup>	0.03	$\leq \frac{7}{2}^+$
	9.062 ± 0.010		0 <sup>h</sup>		$\frac{1}{2}^+ , \frac{3}{2}^+$
	9.165 ± 0.010		X <sup>c,h</sup>		
	9.834 ± 0.010				
	10.069 ± 0.010		1 <sup>e</sup>	0.14	$\frac{1}{2}^- , \frac{3}{2}^- , \frac{5}{2}^-$
	10.458 ± 0.010		X <sup>c,h</sup>		
	10.544 ± 0.010		X <sup>c,h</sup>		
	10.705 ± 0.010		X <sup>c,h</sup>		
	10.811 ± 0.010		X <sup>c,h</sup>		
	11.2		1 <sup>i</sup>	0.24	$\frac{1}{2}^- , \frac{3}{2}^- , \frac{5}{2}^-$

A: (1950MA65);  $E_d = 1.4$  MeV,  $\theta = 90^\circ$ .

B: (1954SP01);  $E_d = 5$  to  $8.5$  MeV,  $\theta = 90^\circ$ . Accurate level separations are also given.

C: (1956DO41);  $E_x$  based on  $Q_m$ ;  $Q$ 's given by (1956DO41) are given to  $\pm 1$  or  $1.5$  keV.

<sup>a</sup> (1952GI01, 1957WA01).

<sup>b</sup> (1955SH28: see (1958WA1C)).

<sup>c</sup> Isotropic: no clear stripping pattern.

<sup>d</sup> (1952GI01, 1955SH28, 1956GR37, 1957WA01).

<sup>e</sup> (1955SH28, 1956GR37).

<sup>f</sup> (1956GR37): (1957WA01) find a possible  $l = 0$  component.

<sup>g</sup> (1955SH28, 1957WA01).

<sup>h</sup> Sharp, Buechner and Sperduto, to be published.

<sup>i</sup> (1956GR37).

<sup>j</sup> (1956GR37, 1957HA1E, 1957WA01).