

Table 16.7 from (1986AJ04): States in  $^{16}\text{N}$  from  $^{14}\text{N}(t, p)$  <sup>a</sup>

$E_x$ (MeV $\pm$ keV)	$\Gamma$ (keV)	$L$	$J^\pi$
0		3	$2^-$ <sup>f</sup>
$0.120 \pm 10$		1	$0^-$ <sup>f</sup>
$0.300 \pm 10$		3	$3^-$ <sup>f</sup>
$0.399 \pm 10$ <sup>b</sup>		1	$1^-$ <sup>f</sup>
$3.359 \pm 10$	$15 \pm 5$	0	$1^+$ <sup>f</sup>
$3.519 \pm 10$	$\leq 7 \pm 4$	d	
$3.957 \pm 10$	$\leq 7 \pm 4$	2	$3^+$ <sup>f</sup>
$4.318 \pm 10$	$20 \pm 5$	0	$1^+$ <sup>f</sup>
$4.391 \pm 10$	$82 \pm 20$	1	$1^-$ <sup>f</sup>
$4.725 \pm 10$ <sup>c</sup>	$290 \pm 30$	1	$1^-$
$4.774 \pm 10$	$59 \pm 8$	2	$2^-$ <sup>f</sup>
$5.053 \pm 10$	$19 \pm 6$	(1 + 3)	$2^-$
$5.130 \pm 10$	$\leq 7 \pm 4$	d	
$5.150 \pm 10$	$\leq 7 \pm 4$		
$5.226 \pm 10$	$\leq 7 \pm 4$	2	(1, 2, 3) <sup>+</sup>
$5.305 \pm 10$ <sup>c</sup>	$260 \pm 30$	d	
$5.520 \pm 10$	$\leq 7 \pm 4$	(0, 1) + 2 + 4 <sup>e</sup>	
$5.730 \pm 10$	$\leq 7 \pm 4$	(1, 3) + 4 <sup>e</sup>	
$6.009 \pm 10$	$270 \pm 30$	1	$1^-$
$6.167 \pm 10$	$\leq 7 \pm 4$	(3)	(4 <sup>-</sup> )
$6.371 \pm 10$	$30 \pm 6$	(3)	(3 <sup>-</sup> )
$6.422 \pm 10$	$300 \pm 30$	$0^+(2, 4)$ <sup>e</sup>	
$6.512 \pm 10$	$34 \pm 6$	$0^+(2, 3)$	$1^+$
$6.613 \pm 10$	$\leq 7 \pm 4$	(2 + 4) or 3	
$6.854 \pm 10$	$\leq 7 \pm 4$	3 or (2 + 4)	
$7.006 \pm 10$	$22 \pm 5$	0(+2)	$1^+$
$7.133 \pm 10$	$\leq 7 \pm 4$	(3, 2)	
$7.250 \pm 10$	$17 \pm 5$	(2 + 4) or 3	
$7.573 \pm 10$	$\leq 7 \pm 4$	3 or (2 + 4)	3, 4 <sup>-</sup>
$7.640 \pm 10$	$\leq 7 \pm 4$	4	(3, 4, 5) <sup>+</sup>

Table 16.7 from (1986AJ04): States in  $^{16}\text{N}$  from  $^{14}\text{N}(t, p)$  <sup>a</sup> (continued)

$E_x$ (MeV $\pm$ keV)	$\Gamma$ (keV)	$L$	$J^\pi$
$7.675 \pm 10$	$\leq 7 \pm 4$	(1 + 4)	
$7.876 \pm 10$	$100 \pm 15$	$1 + 4$ <sup>e</sup>	
$8.043 \pm 10$	$85 \pm 15$	(2 + 4) or 3	
$8.183 \pm 10$	$28 \pm 8$	2(+4)	(3, 2) <sup>+</sup>
$8.280 \pm 10$	$24 \pm 8$	(1)	((0, 1, 2) <sup>-</sup> )
$8.361 \pm 10$	$18 \pm 8$	(1 + 4) <sup>e</sup>	

<sup>a</sup> For references see [Table 16.7 in \(1982AJ01\)](#).

<sup>b</sup>  $\tau_m = 5.1 \pm 0.3$  psec.

<sup>c</sup> The errors listed here for the  $E_x$  to these two broad peaks are probably underestimates: I am indebted to Dr. H. Fuchs for his comments.

<sup>d</sup> Results are ambiguous.

<sup>e</sup> May be a doublet.

<sup>f</sup> Identified with shell-model counterparts.