

Table 16.7 from (1982AJ01): States in  $^{16}\text{N}$  from  $^{14}\text{N}(t, p)^{16}\text{N}$

| (1966HE10)            |                | $L^a$               | $J^\pi^a$      |
|-----------------------|----------------|---------------------|----------------|
| $E_x$ (MeV $\pm$ keV) | $\Gamma$ (keV) |                     |                |
| 0                     |                | 3                   | $2^-^b$        |
| $0.120 \pm 10$        |                | 1                   | $0^-^b$        |
| $0.300 \pm 10$        |                | 3                   | $3^-^b$        |
| $0.399 \pm 10$        |                | 1                   | $1^-^b$        |
| $3.359 \pm 10$        | $15 \pm 5$     | 0                   | $1^+^b$        |
| $3.519 \pm 10$        | $\leq 7 \pm 4$ | $c$                 |                |
| $3.957 \pm 10$        | $\leq 7 \pm 4$ | 2                   | $3^+^b$        |
| $4.318 \pm 10$        | $20 \pm 5$     | 0                   | $1^+^b$        |
| $4.391 \pm 10$        | $82 \pm 20$    | 1                   | $1^-^b$        |
| $4.725 \pm 10^d$      | $290 \pm 30$   | 1                   | $1^-$          |
| $4.774 \pm 10$        | $59 \pm 8$     | 2                   | $2^-^b$        |
| $5.053 \pm 10$        | $19 \pm 6$     | (1 + 3)             | $2^-$          |
| $5.130 \pm 10$        | $\leq 7 \pm 4$ | $c$                 |                |
| $5.150 \pm 10$        | $\leq 7 \pm 4$ |                     |                |
| $5.226 \pm 10$        | $\leq 7 \pm 4$ | 2                   | (1, 2, 3) $^+$ |
| $5.305 \pm 10^d$      | $260 \pm 30$   | $c$                 |                |
| $5.520 \pm 10$        | $\leq 7 \pm 4$ | (0, 1) + 2 + 4 $^e$ |                |
| $5.730 \pm 10$        | $\leq 7 \pm 4$ | (1, 3) + 4 $^e$     |                |
| $6.009 \pm 10$        | $270 \pm 30$   | 1                   | $1^-$          |
| $6.167 \pm 10$        | $\leq 7 \pm 4$ | (3)                 | (4 $^-$ )      |
| $6.371 \pm 10$        | $30 \pm 6$     | (3)                 | (3 $^-$ )      |
| $6.422 \pm 10$        | $300 \pm 30$   | $0^+(2, 4)^e$       |                |
| $6.512 \pm 10$        | $34 \pm 6$     | $0^+(2, 3)$         | $1^+$          |
| $6.613 \pm 10$        | $\leq 7 \pm 4$ | (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)        | $3, 4^-$       |
| $7.640 \pm 10$        | $\leq 7 \pm 4$ | 4                   | (3, 4, 5) $^+$ |

Table 16.7 from (1982AJ01): States in  $^{16}\text{N}$  from  $^{14}\text{N}(t, p)^{16}\text{N}$  (continued)

| (1966HE10)            |                | $L^a$                | $J^\pi^a$  |
|-----------------------|----------------|----------------------|--|
| $E_x$ (MeV $\pm$ keV) | $\Gamma$ (keV) |                      |  |
| $7.675 \pm 10$        | $\leq 7 \pm 4$ | (1 + 4)              | (3, 2) <sup>+</sup><br>((0, 1, 2) <sup>-</sup> ) |
| $7.876 \pm 10$        | $100 \pm 15$   | 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)              |  |
| $8.280 \pm 10$        | $24 \pm 8$     | (1)                  |  |
| $8.361 \pm 10$        | $18 \pm 8$     | (1 + 4) <sup>e</sup> |  |

<sup>a</sup> From reanalysis of data of (1966HE10): see (1975CR02, 1978FO04).

<sup>b</sup> Identified with shell-model counterparts (1975CR02).

<sup>c</sup> Results are ambiguous (1975CR02).

<sup>d</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>e</sup> May be a doublet (1978FO04).