

Table 16.5 from (1986AJ04): States of  $^{16}\text{N}$  from  $^{13}\text{C}(\alpha, \text{p})$  <sup>a</sup>

$E_x$ (MeV)	$E_x$ (MeV)	$E_x$ (MeV)	$E_x$ (MeV)
0	$5.14 \pm 0.04$ <sup>b</sup>	7.572 <sup>f</sup>	$10.07 \pm 0.04$
0.120	5.522	7.637 <sup>f</sup>	$10.37 \pm 0.04$
0.298	5.732	7.674 <sup>f</sup>	$11.16 \pm 0.04$ <sup>c</sup>
0.397	6.171	7.877 <sup>e</sup>	$11.75 \pm 0.04$ <sup>c,g</sup>
3.353	6.374	$8.39 \pm 0.03$	$12.39 \pm 0.06$
3.522	6.609 <sup>c</sup>	$8.82 \pm 0.03$	$12.57 \pm 0.06$
3.963	6.845 <sup>c</sup>	$9.46 \pm 0.03$	$13.11 \pm 0.06$
4.391	7.250 <sup>d</sup>	$9.77 \pm 0.03$	$14.30 \pm 0.06$
4.783			

<sup>a</sup> (1983HA32);  $E_\alpha = 34.9$  MeV; DWBA analysis.

<sup>b</sup> Unresolved.

<sup>c</sup> Very sharp.

<sup>d</sup>  $\Gamma = 17$  keV.

<sup>e</sup>  $\Gamma = 100$  keV.

<sup>f</sup> Suggested  $J^\pi = (4^+, 5^+), (4^-), (5^-)$  for  $^{16}\text{N}^*(7.57, 7.64, 7.67)$ , respectively.

<sup>g</sup>  $\Gamma < 50$  keV; not to be identified with the  $T = 2$  state at 11.70 MeV.