

## FOURIER TRANSFORM MICROWAVE SPECTROSCOPY OF THE N<sub>2</sub> CO<sub>2</sub> VAN DER WAALS COMPLEX

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The microwave spectrum of the weakly-bound complex of nitrogen and carbon dioxide was measured by Fourier transform microwave spectroscopy. A previous determination of the structure of this molecule was performed in a rotationally-resolved infrared study in the region of  $\nu_3$  of CO<sub>2</sub><sup>a</sup>. We have observed only *a*-type transitions, and have measured the hyperfine splitting due to the two <sup>14</sup>N nuclei. Consistent with the geometry proposed by Walsh et. al., the structure of the complex is T-shaped, with the CO<sub>2</sub> forming the cross of the T.

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<sup>a</sup>M. A. Walsh, T. R. Dyke, and B. J. Howard, *J. Mol. Struct.* **189**, 111, (1988)