

## ABSOLUTE LINE INTENSITIES IN $^{12}\text{C}_2\text{H}_2$ : THE $1.5\mu\text{m}$ REGION

R. EL HACHTOUKI and J. VANDER AUWERA, *Laboratoire de Chimie Physique Moléculaire C. P. 160/09, Université Libre de Bruxelles, 50 Avenue F. D. Roosevelt, B-1050 Brussels, Belgium.*

In the line of our activities aiming at providing reference spectroscopic information in the near infrared range, we measured absolute line intensities in 5 bands of acetylene observed around  $1.5\mu\text{m}$ : the  $\nu_1 + \nu_3$  band and 3 hot bands involving excitation of the bending modes  $\nu_4$  and  $\nu_5$  of  $^{12}\text{C}_2\text{H}_2$  and the  $\nu_1 + \nu_3$  band of  $^{13}\text{C}^{12}\text{CH}_2$ . These measurements were performed on spectra recorded at a resolution of  $0.009\text{ cm}^{-1}$  (Maximum Optical Path Difference = 100 cm) using a Bruker IFS120HR Fourier transform spectrometer. Five spectra were actually recorded at room temperature, with sample pressure – absorption path length products ranging from 0.67 to 2700 mbar $\times$ m. Results will be presented and discussed.