

SPECTROSCOPIC OBSERVATIONS OF COMET AUSTIN 1984I¹B.H. Foing², M. Festou³, S. Char⁴

ABSTRACT. The comet Austin (1984I) discovered on July 8, 1984 was observed at the European Southern Observatory on July 25.97UT (0.50m reflector and Stromgren photometer), and July 27.96UT (1.5m reflector, Boller & Chivens spectrograph and Image Dissector Scanner in the spectral range 500-730 nm). Several spectra along the solar-antisolar axis have been taken, showing the spatial extension of the species C_2 , NH_2 , NaI , H_2O^+ , $O I$ lines. The central diffuse condensation of FWHM 25", the spatial behaviour of the previous species and the additional emitting features included in the photometric Stromgren bands are discussed.

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