SPECTROSCOPIC OBSERVATIONS OF COMET AUSTIN 19841

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ABSTRACT. The comet Austin (19841) discovered on July 8, 1984 was observed at the European Southern Observatory on July 25.97 UT (0.50 m reflector and Stromgren photometer), and July 27.96 UT (1.5 m 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 C2, NH2, NaI, H2O+, 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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