

STUDY OF SPECTRA OF COMET 17P/HOLMES OBTAINED WITH 2.12 - M TELESCOPE IN MEXICO ON NOVEMBER 2 AND 3, 2007. K.I.Churyumov¹, L.S.Chubko², I. V. Lukyanyk¹, V.V.Kleshchok¹, A.A. Berezhnoy³, V.H. Chavushyan⁴, L. Sandoval⁵ and A. Palma⁵. ¹Astronomical Observatory of Kyiv Taras Schevchenko National University, Observatorna 3, Kyiv 04053, Ukraine, klivch@mail.ru; ²National aviation university, Cosmonaut Komarov Av. 1, Kyiv 03058, Ukraine; ³Sternberg Astronomical Institute, Moscow State University, Universitetsky Av. 13, Moscow 119992, Russia; ⁴Instituto Nacional de Astrofísica, Óptica y Electrónica, Tonantzintla, Puebla, Mexico; ⁵Benemerita Universidad Autónoma de Puebla, Puebla, Mexico

We present preliminary results of the investigation of short period comet 17P/Holmes spectra, obtained Nov. 2 and 3, 2007 (in a 9-10 days after its super outburst of brightness on Oct. 24, 2007) with the Boller and Chivens spectrographs (long slit and CCD) installed on the 2.12-m reflector of the Guillermo Haro Astrophysical Observatory (Mexico, Cananea – Lat. =31°3'10" , Long. =110°, 23'05" West). The diffraction gratings with the reciprocal dispersion 3.5Å per pixel and 1.4 Å per pixel and spectral resolutions of 15 Å and of 5.4 Å were used. The detailed identification of emission lines in spectra was made. Typical emission lines of the molecules C₂, C₃, CN, bands were identified in the spectra of comet 17P/Holmes. Some physical parameters of the cometary neutral atmosphere are calculated using the Shulman model for a neutral cometary atmosphere.