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EXPLORATION OF SPECTRA OF COMETS P/2006 HR30 (SIDING SPRING), 17P/HOLMES, 8P/TUTTLE AND 46P/WIRTANEN OBSERVED WITH 2-M ZEISS REFLECTOR AT MOUNT TERSKOL IN 2007-2008. K. I.Churyumov¹, L. S. Chubko², I. V. Lukyanyk¹, V. V. Kleshchonok¹, A. V. Sergeev³. ¹Astronomical Observatory of Kyiv Taras Shevchenko National University, (Observatorna 3, Kyiv 04053, Ukraine, klivch@mail.ru/phone: 380-44-2872781), ²Kyiv National Aviation University, ³Main Astronomical Observatory of National Academy of Sciences of Ukraine

We present preliminary results of the processing of echelle spectra of four short period comets P/2006 HR30 (Siding Spring), 17P/Holmes, 8P/Tuttle and 46P/Wirtanen, belonging to the Jupiter family, observed with 2-m Zeiss reflector at Mount Terskol (International center of astronomy, medicine and ecology of Main Astronomical Observatory of National Academy of Sciences of Ukraine and of Institute of astronomy of Academy of Sciences of Russia) in 2007. The detailed identification of emission lines in spectra was made. Some physical parameters of the cometary neutral atmosphere are calculated. Obtained results of exploration of spectra of four short period comets P/2006 HR30 (Siding Spring), 17P/Holmes, 8P/Tuttle and 46P/Wirtanen are discussed.