



Contribution ID: 33

Type: **not specified**

Multiwavelength photometry of comet C/2013 X1 (Pan-STARRS)

Wednesday 26 October 2022 10:00 (15 minutes)

We present the results of photometrical observations of hyperbolic comet C/2013 X1 (Pan-STARRS) in broadband Johnson-Cousins filters. Data were obtained during the pre-perihelion passage of the comet in the period December 2015 - January 2016 using the 61-cm telescope at the Skalnat'nyy Pleco observatory. Analyzing the dust productivity via $Af\rho$ proxy, we revealed a sharp increase in cometary activity at the end of December. Also, we detected colour slope variations during the observed period. Constructed morphology maps demonstrated non-uniform dust distribution over the cometary coma with at least one jet-like structure.

Author: Dr SHUBINA, Olena (Astronomical Institute of the Slovak Academy of Sciences, Tatranská Lomnica, Slovak Republic; Main Astronomical Observatory of National Academy of Sciences of Ukraine, Kyiv, Ukraine)

Co-authors: HUSARIK, Marek (Astronomical Institute of the Slovak Academy of Sciences, Tatranska Lomnica, Slovak Republic); IVANOVA, Oleksandra (Astronomical Institute of the Slovak Academy of Sciences, Tatranska Lomnica, Slovak Republic; Main Astronomical Observatory of National Academy of Sciences of Ukraine, Kyiv, Ukraine; Astronomical Observatory of Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Presenter: Dr SHUBINA, Olena (Astronomical Institute of the Slovak Academy of Sciences, Tatranská Lomnica, Slovak Republic; Main Astronomical Observatory of National Academy of Sciences of Ukraine, Kyiv, Ukraine)

Session Classification: Solar system & extrasolar planets