

Section

Astrometry and small bodies of the Solar system

14:00-18:00

May 26, 2026 (Tuesday)

The session will be held in a hybrid format. The in-person meeting will take place in the main conference hall of the Astronomical Observatory. You can also join via the following link:

<https://knu-ua.zoom.us/j/87303751792?pwd=uRkk1c1V1s735im2236YNiVKb1UMQH.1>

Meeting ID: 873 0375 1792 **Passcode:** 196534

Moderator: Igor Luk'yanyk iluk@knu.ua

15-20 min for the report

- 1) I. Kulyk, A. Kasianchuk, M. Husrik, S. Borysenko, A. Baransky Distant activity of dynamically new comet C/2017 K2 (PANSTARRS)
- 2) A.S. Guliyev, R.A. Guliyev, B.E. Asgarova Dynamical Relationships Between Long-Period Comets and Trans-Neptunian Objects
- 3) V. Kleshchonok, V. Rosenbush, O. Ivanova, J. Markkanen, I. Lukyanyk, L. Kolokolova, E. Shablovinskaya The Gas and Dust Matter of Comet 67P/ChuryumovGerasimenko During the 2021/2022 Apparition
- 4) Y. Bezdrovnyi, V. Reshetnyk A GPU ray-tracing model of surface illumination of a cometary nucleus for dust-transport simulation
- 5) A. Kasianchuk, I. Kulyk Monte-Carlo modeling of comet dusty atmospheres: the case of comet C/2017 K2 (PANSTARRS)
- 6) A. Aleksandrov, O. Golubov Size distribution of small asteroids
- 7) K. Husarova, A. Kasianchuk, A. Baransky Comprehensive analysis of comet plasma tail disconnection events and their relation to sunspots and the magnetic field
- 8) D. Danylko, I. Kulyk, Yu. Kuznetsova KIC5115978 system: the close-in planet near the stellar rotation period
- 9) A. Mozgova, A. Golubaev Autonomous Raspberry Pi-Based Meteor Station: Technical Solutions and Scientific Potential for the Ukrainian Meteor Observational Network (UMON)
- 10) N.V. Maigurova, I.V. Kulyk, A.V. Pomazan, Y.I. Protsyuk, Ya.O. Romanyuk Astrometry and Photometry of near-Earth asteroid 2025 FA22 from 2025 close approach
- 11) I. Hapontseva, O. Golubov, O. Mikhalchenko, V. Lipatova Toy model for the Yarkovsky effect on meteoroids: novel results for small thermal parameters
- 12) O. V. Korenets, V. L. Karbivsky, E. Yu. Kovalenko, M. I. Buromskyi, I. V. Zahorulko Gravimetric complex for mass gravimetric monitoring
- 13) I.V. Luk'yanyk, M.I. Buromsky, E.Yu. Kovalenko, V.L. Karbivsky, M. Lashko Modernization of the pointing and clamping system of the AZT-8 telescope for high-precision monitoring
- 14) V. Reshetnyk, I. Lukyanyk, Yu. Skorov Sublimation of porous cometary dust-ice layers
- 15) M.F. Tyshchuk On the digitization and recalculation of the Poltava latitude observations of (Per and UMa with the Bamberg zenith telescope based on the Hipparcos catalogue
- 16) R. Kazarova, A. Baransky, A. Kasianchuk Light Curves and Orbital Motion in OJ287 System
- 17) I. Semyriako, A. Baransky O-C analysis of three eclipsing binaries observed by TESS
- 18) M. Yatsiuk, A. Dzygunenko, D. Tvardovskyi, K. Liashenko, N. Telekh, A. Mosiichuk, D. Zazubyk, V. Smorodska, V. Udovychenko, V. Zadubets, V. Boyko, M. Popenko, I. Semyriako, I. Kharkovets, A. Kormanovska, A. Omelchenko, A. Anishchenko, S. Kartashov New Variable Stars Found in TESS Sectors 77, 79, and 86
- 19) M.D. Smetanskyi, A.R. Baransky Physical modelling and statistical prediction of glitches in pulsars J0835-4510 (Vela) and J1016-5857
- 20) V.V. Kleshchonok Characteristics of the near-nucleus dust environment of Comet 67P/ChuryumovGerasimenko based on shadow photometry data

Closing discussion and reserve time for short (10-15 min) late reports