

## **Session Program**

**24-28 Oct 2022**



## **28th Young Scientists' Conference on Astronomy and Space Physics**

***Stellar astrophysics and interstellar medium***

# Tuesday 25 October

10:00

## Stellar astrophysics and interstellar medium

Session | Convener: Mr Roman Akhmetshyn

10:10–10:55

### Mathematical modeling of the light curves of variable stars: review and atlas of the light curves

**Speaker**

Dr Ivan Andronov

10:55–11:10

### Photometric and spectroscopic analysis of contact binaries

**Speaker**

Mr Alaxender Panchal

11:10–11:25

### A multi-wavelength study of Cygnus

**Speaker**

Ms Saumya Gupta

11:25–11:40

### Could kilomasers pinpoint supermassive stars?

**Speaker**

Ms Katarzyna Nowak

11:40–11:55

### Study of the Lithium abundance in solar-type stars

**Speaker**

Ms Polina Dimitrieva

11:55–12:00

### Close binary star system Cygnus X-1. Relative and absolute photometry

**Speaker**

Ms Olivia Muzyka

12:00–12:30

### Coffee-break

12:30–12:40

### Photometric monitoring of eclipsing dwarf novae using two robotic telescope networks

**Speaker**

Mr Sebastian Kurowski

12:40–12:55

### Spin and orbital variability of the intermediate polar RX J2133.7+5107

**Speaker**

Dr Vitalii Breus

12:55–13:10

### Study of open cluster King 13 using CCD VI, 2MASS and Gaia DR2 Astrometry

**Speaker**

Dr Devendra Bisht

13:10-13:25

**Photometric monitoring of short-period eclipsing binaries discovered at  
Astronomical Observatory on Kolonica Saddle**

**Speaker**

Dr Vitalii Breus

13:25-13:30

**Search for hierarchical systems in the Gaia EDR3**

**Speaker**

Mr Jakub Tokarek

14:05