Session Program

24-28 Oct 2022



28th Young Scientists' Conference on Astronomy and Space Physics

Extragalactic astrophysics and cosmology

Monday 24 October

11:00

Extragalactic astrophysics and cosmology

Session | Conveners: Ms Iryna Chemerynska, Dr Olena Shubina

11:00-11:45

In a quest to understand cosmic acceleration: testing gravity and beyond

Speaker

Prof. Wojciech Hellwing

11:45-12:00 Universality of halo mass function in modified gravity cosmologies

Speaker

Ms Suhani Gupta

12:00-12:15

Reconstruction and analysis of cosmological scalar field φCDM models

Speaker

Dr Olga Avsajanishvili

12:15-12:30

Predicting large scale structure of the Universe using deep learning methods

Speaker

Mr Olexandr Gugnin

12:30-12:45

New approximate expressions for the outer gravitational potential of a torus with an elliptical cross-section

Speaker

Mr Sergey Skolota

12:45-13:00

The choice of the Zone of Avoidance compensation method to estimate clustering dipole in galaxy catalogs

Speaker

Ms Magdalena Krupa

13:00-13:05 Early star-forming galaxies through Gravitational telescopes

Speaker

Ms Iryna Chemerynska

13:05-13:10 Discovering the Radio Cosmos

Speaker

Mr Manas Awasthi

13:10-13:40 Coffee-break

13:40-13:55

Low frequency radio continuum imaging and SED modeling of 11 local luminous infrared galaxies in radio and infrared domains

Speaker

Ms Subhrata Dey

13:55-14:10 THE CMB Lensing Signal of Cosmic Voids

Speaker

Mr Umut Demirbozan

14:10-14:25

Tomography-based observational determination of the abundance of dark matter halos using the submillimeter galaxy magnification bias

Speaker

Mr Marcos Muñiz Cueli

14:25-14:40 Galaxy properties as tracers of environment in the cosmic web

Speaker

Mr Unnikrishnan Sureshkumar

14:40-14:55

Improved technique for quasar continuum prediction in the Lyα forest based on composite spectra

Speaker

Dr Olena Torbaniuk

14:55-15:10

Preliminary Global 21cm Observations with MIST from the Canadian High Arctic

Speaker

Mr Ian Hendricksen

15:10-15:25 Dynamic model of the ionosphere for wide-field radio experiments

Speaker

Mr Vadym Bidula

15:25-15:40

Drone-Based Calibration Technique for The Array of Long Baseline Antennas for Taking Radio Observations from the Sub-Antarctic (ALBATROS)

Speaker

Mr Christopher Barbarie

15:40-15:55 Mapping Dark Matter with Weak Gravitational Lensing Techniques

Speaker

Ms Mila Arasu

Predicting the redshift of gamma-ray loud AGNs using supervised machine learning

Speaker

Mr Aditya Narendra

16:00