



# The 4th International Symposium on Cosmic Rays and Astrophysics (ISCRA-2023)

## Tuesday 27 June 2023

### Cosmic rays of very high energies (> 1 PeV) - B-100 (13:00-13:30)

time	[id] title	presenter
13:00	[13] Title: Progress of Electron-Neutron Detector Array (ENDA)	LIU, Mao-Yuan
13:15	[11] Techniques for data analysis and primary mass reconstruction in the ENDA experiment	KURINOV, Kirill

### Cosmic rays of very high energies (> 1 PeV) - B-100 (14:30-16:00)

time	[id] title	presenter
14:30	[32] The Baikal-GVD neutrino telescope: current status and development prospects	AYNUTDINOV, Vladimir
14:45	[76] Solar radio bursts in the Radio Neutrino Observatory in Greenland RNO-G	MIKHAILOVA, Maria
15:00	[17] Magnetorotational supernova neutrino emission spectra and prospects for observations by large-size underwater telescopes	KONDRATYEV, Vladimir
15:15	[71] Development of an EAS type identification method based on an artificial neural network for the TAIGA experiment	KRAVCHENKO, Evgeniy
15:30	[44] High Energy Ray Observatory, optimization and current status	PODOROZHNY, Dmitry
15:45	[34] Elaboration of a model of SPHERE-3 telescope for the studies of the primary cosmic rays in $10^{15}$ — $10^{18}$ eV energy range using reflected from snowed surface and direct Cherenkov light from extensive air showers	BONVECH, Elena

## Wednesday 28 June 2023

### Cosmic rays of very high energies (> 1 PeV) - B-100 (12:00-13:30)

time	[id] title	presenter
12:00	[7] Combined diffusive shock and shear acceleration in astrophysical jets	ZIRAKASHVILI, Vladimir
12:15	[68] Where are the pevatrons that form the knee in the spectrum of the cosmic ray nucleon component around 4 PeV?	VOLKOV, Nikolay
12:30	[6] On the nature of cosmic ray transport nonlocality	Mr UCHAIKIN, Vladimir
12:45	[27] Investigation of the large-scale distribution of the arrival points of 1-100 PeV EAS detected at the Tien Shan cosmic ray installation	SHEPETOV, Alexander RYABOV, Vladimir
13:00	[66] Study of anomalous events in the TUS experiment	BLINOV, Aleksandr
13:15	[70] Energy deposit of EAS cores detected by the facilities of the Experimental Complex NEVOD	KHOKHLOV, Semyon

### Cosmic rays of very high energies (> 1 PeV) - B-100 (17:00-18:15)

time	[id] title	presenter
17:00	[31] CMS Measurements and UHECR	KHEYN, Lev
17:15	[23] Bose–Einstein condensation and muon production in ultra-high energy cosmic ray particle collisions	OKOROKOV, Vitalii
17:30	[25] Hadronization as a key to the muon puzzle	NIKOLAENKO, Roman
17:45	[35] Kinematic description of alignment in the Pamir experiment	NIKOLSKII, Aleksei
18:00	[62] Current status of the TREK detector for studies of cosmic ray muon bundles at large zenith angles	TROSHIN, Ivan

## Thursday 29 June 2023

### Cosmic rays of very high energies (> 1 PeV) - B-100 (10:00-11:30)

time	[id] title	presenter
10:00	[67] A new break near 10 TeV in the energy spectrum of protons according to data from space-based instruments: astrophysical interpretation	LAGUTIN, Anatoly
10:15	[41] Studying muon bundles of inclined air showers in the NEVOD-DECOR experiment	BOGDANOV, Aleksei
10:30	[39] Direct comparison of muons in ultrahigh energy EASs between Yakutsk array and Auger experiment data	KSENOFONTOV, Leonid
10:45	[3] Systematic uncertainties of the primary astroparticle energy estimation vs zenith angle distribution of EAS event rate measured with surface array	IVANOV, Anatoly
11:00	[15] The study of cosmic rays with energies greater than 5 EeV by radio method	PETROV, Igor
11:15	[28] Reconstruction of the characteristics of a high-energy event detected by the Carpet-2 array in association with the GRB 221009A gamma-ray burst	KARPIKOV, Ivan