

QUARKS-2026

Monday, 18 May 2026

Cosmology and Astroparticle Physics (12:20 - 14:00)

-Conveners: Dmitry Gal'tsov

time	[id] title	presenter
12:20	[399] Inflationary models with the Gauss-Bonnet term and nonminimal coupling	VERNOV, Sergey
12:40	[293] Axion-like potential in late-universe models	KRUGAN, George
13:00	[181] Theoretical and observational probes of extended gravities	ALEXEYEV, Stanislav
13:20	[375] Non-minimal Effective Scalar-Tensor Gravity in the Early Universe	STAMOV, Roman

Tuesday, 19 May 2026

Cosmology and Astroparticle Physics (12:20 - 14:00)

-Conveners: Nikolay Budnev

time	[id] title	presenter
12:20	[423] Изображения источников космических лучей ультравысоких энергий в турбулентном межгалактическом магнитном поле	ДОЛГИХ, Константин
12:40	[339] Limiting the number density of ultra-high-energy cosmic ray sources	PAVLIUK, Anastasia
13:00	[321] Identifying nearby sources of Ultra-High Energy Cosmic Rays using graph convolutional neural networks	MOROZ, Iuliia
13:20	[326] Interaction of a gamma-ray burst with the interstellar gas of the parent galaxy: observational signatures	NESTERENOK, Aleksandr
13:40	[364] Dark-matter relay for ultra-high-energy cosmic rays	SEKRETOV, Mikhail

Cosmology and Astroparticle Physics (15:40 - 17:00)

-Conveners: Pavel Klimov

time	[id] title	presenter
15:40	[209] From TAIGA-1 to TAIGA-100 for PeV gamma astronomy	BUDNEV, Nikolay
16:00	[239] Latent representation for TA SD events and search for anomalies	FITAGDINOV, Robert
16:20	[382] Arrival Directions of Ultra-High-Energy Cosmic Rays in TA FD	SURAI, Alisa
16:40	[367] Anisotropy of mass components of ultra-high-energy cosmic rays in the KASCADE experiment data	SHINKEVICH, Egor

Cosmology and Astroparticle Physics (17:20 - 19:00)

-Conveners: Anton Baushev

time	[id] title	presenter
17:20	[357] Domain walls and all that	RAMAZANOV, Sabir
17:40	[238] Interaction of primordial plasma with domain walls in the early Universe	FILIPPOV, Danila
18:00	[363] Search for cosmic strings: modeling of gravitational lensing and observational perspectives	SAZHINA, Olga
18:20	[320] Search for Wormhole Candidates in Astrophysical Binary Systems via Radial Velocity Analysis	MOISEEV, Iurii
18:40	[242] Generalized Models for Spinning Field Lumps on Plane	GALUSHKINA, Yulia

Wednesday, 20 May 2026

Cosmology and Astroparticle Physics (15:40 - 17:00)

-Conveners: Mikhail Kuznetsov

time	[id] title	presenter
15:40	[342] Ultra-high energy event KM3-230213A as a cosmogenic neutrino	PETROV, Nikita
16:00	[374] Neutrinos from AGN coronae	SOTIROV, Simon
16:20	[353] Detection of Gamma-ray Halos around Nearby Late-type Galaxies	PSHIRKOV, Maxim
16:40	[296] Search for correlations between Fermi-LAT very high energy photons and active galactic nuclei	KUDENKO, Mariia

Cosmology and Astroparticle Physics (17:20 - 19:00)

-Conveners: Maxim Pshirkov

time	[id] title	presenter
17:20	[262] Sterile Neutrino Dark Matter	KALASHNIKOV, Dmitry
17:40	[214] Neutrinos from Dark Matter Annihilation in the Sun in Models with a Hidden Sector	DANILA, Smirnov
18:00	[389] Thermalization of inelastic dark matter in the SUN	TOVSTUN, Artem
18:20	[195] Can the dark matter directly collapse into black holes in the standard LambdaCDM?	BAUSHEV, Anton
18:40	[306] New results on dynamical flattening of halo density cusps by Q-ball dark matter	LIBANOV, Alexander

Friday, 22 May 2026

Cosmology and Astroparticle Physics (11:00 - 12:20)

-Conveners: Olga Sazhina

time	[id] title	presenter
11:00	[295] Constraints on Axion-Like Particles from Stellar Evolution with MESA	KUDASHOV, Aleksey
11:20	[390] Search for new physics with giant stars in globular clusters after Gaia	TROITSKY, Sergey
11:40	[280] Axion–neutrino interactions in seesaw models and astrophysical probes	KIVOKURTSEVA, Polina
12:00	[216] Axion-like particle emission from type Ia supernovae	DAVYDOV, Daniil

Cosmology and Astroparticle Physics (12:40 - 14:00)

time	[id] title	presenter
12:40	[384] Extraction of the muon signal using LSTM in the TA experiment	SUZDALOV, Gleb
13:00	[350] Diffuse isotropic gamma ray flux constraints in the PeV energy range from Carpet-3 data using domain adaptation	POZDNUKHOV, Nikita
13:20	[175] Knocking at the Door of the Cosmic Microwave Background (CMB)	AFZAL, Adeela
13:40	[182] Astrophysical positronium and Dicke superradiance	ALIZZI ALNAKISHBANDEY, ABD ALJALEL

Cosmology and Astroparticle Physics (15:40 - 17:00)

-Conveners: Dmitry Levkov

time	[id] title	presenter
15:40	[243] False vacuum decay around black holes	GAZIZOV, Ratmir
16:00	[314] Thermal false vacuum decay near large black holes is aspherical	MASLOV, Vasily
16:20	[274] Spinning Q-balls in the Maxwell-Chern-Simons gauge model	KIM, Eduard
16:40	[330] Stable "pockets" of macroscopic extra dimensions in F(R)-gravity	NIKULIN, Valery

Cosmology and Astroparticle Physics (17:20 - 19:00)

-Conveners: Sergey Vernov

time	[id] title	presenter
17:20	[324] Constraining modified gravity with DES Y3 in the post-DESI era	NEDELKO, Nikita
17:40	[218] Asymmetric antimatter evolution in baryon asymmetrical Universe	DEMBITSKAIA, Anna
18:00	[187] Can Primordial Black Holes Explain the ${}^7\text{Li}$ Deficit?	ARBUZOVA, Elena
18:20	[291] Recombination Epoch, special relativity effects and Hubble tension	KRASNOV, Igor
18:40	[313] Systematics of high-energy photonuclear cross section and challenges in extensive air shower physics	Mr MARTYNNENKO, Nickolay