

Table of contents

Tuesday 06 October 2020	1
Friday 09 October 2020	2

The 5th international conference on particle physics and astrophysics

Tuesday 06 October 2020

Astroparticle Physics: 1 - Astroparticle (11:00-13:00)

-Conveners: Alexey Grobov

time	[id] title	presenter
11:00	[716] LVD STATUS REPORT: UNDERGROUND MUON PHYSICS	AGAFONOVA, Natalia
11:15	[748] Theoretical uncertainties of muon transport calculations for very large volume neutrino telescopes	SANDROCK, Alexander
11:30	[764] Intensity of muon bundles according to the NEVOD-DECOR cosmic ray experiment	BOGDANOV, Aleksei KOKOULIN, Rostislav
11:45	[788] Status of investigations of the energy deposit of cosmic ray muon bundles in the Cherenkov water calorimeter	YURINA, Ekaterina
12:00	[868] Investigation of the EAS Neutron Component with the URAN Array	BOGDANOV, Fedor
12:15	[891] Optical system with SiPM-based camera for the TAIGA hybrid installation	CHERNOV, Dmitry GRINYUK, Andrey

Astroparticle Physics: 2 - Astroparticle (17:05-19:20)

-Conveners: Alexey Grobov

time	[id] title	presenter
17:05	[790] New Markov-Chain Monte Carlo analyses for the evaluation of the antiproton background	DE LA TORRE LUQUE, Pedro
17:25	[804] Study of Plastic Scintillator Detector for the High Energy cosmic-Radiation Detection (HERD) experiment	DI VENERE, Leonardo
17:40	[683] Triboelectric effect in radio detectors of astrophysical experiments in Antarctica	Ms. MIKHAILOVA, Maria ■■■■■■■, ■■■■■■
17:55	[900] Dark matter search with DEAP-3600 experiment	ALEXEY, Grobov
18:10	[773] Dark matter search with noble gas two-phase emission detectors	Dr. AKIMOV, Dmitry
18:25	[684] Dark matter searches by the planned gamma-ray telescope GAMMA-400	EGOROV, Andrey
18:40	[592] Investigation of the mechanism of solar flare and acceleration of solar cosmic rays in real conditions of the solar corona	PODGORNY, Alexander
18:55	[895] Feasibility study to measure the muon bremsstrahlung cross section with the energy loss profile using neutrino telescopes	SOEDINGREKSO, Jan

Friday 09 October 2020

Astroparticle Physics: 3 - Astroparticle (11:00-13:15)

-Conveners: **Sergey Koldobskiy**

time	[id] title	presenter
11:00	[901] PROPOSAL: A library to propagate leptons and high energy photons	ALAMEDDINE, Jean-Marco
11:15	[886] Second look to the Polyakov Loop Nambu-Jona-Lasinio model at finite baryonic density	IVANYTSKYI, Oleksii
11:30	[795] Constraints on the fraction of cold fermionic dark matter particles inside the neutron stars	SAGUN, Violetta
11:45	[789] Modification of beta-processes by magnetic field in core-collapse supernova	DOBRYNINA, Alexandra
12:00	[775] Photon damping in a strongly magnetized plasma	RUMYANTSEV, Dmitry
12:15	[757] Top quark production at ultra-high energies	OKOROKOV, Vitalii
12:30	[602] New Approach of explaining the missing sources of UHE Neutrinos as an Effect of Approaching Planck Length	Mr. SHEHADA, Abdullah
12:45	[741] Precision measurements of cosmic ray electron and positron spectra above 50 MeV with the PAMELA magnetic spectrometer	MIKHAILOV, Vladimir

Astroparticle Physics: 4 - Astroparticle (16:55-19:25)

-Conveners: **Vladimir Mikhailov**

time	[id] title	presenter
16:55	[701] Fermi-LAT observations of gamma-ray emission from interstellar visitors 1I/Oumuamua and 2I/Borisov	DI VENERE, Leonardo
17:10	[599] First results and future prospects from PHELEX.	Dr. KOPYLOV, Anatoly
17:25	[870] Star-forming regions as potential contributors to Galactic cosmic rays: the case of NGC 3603	Dr. SAHA, Lab
17:40	[585] HE Stratosphere Event of 1975 Revisited: New Physycs in Astroparticle Collision vs. LHC Nucleus-Nucleus Data	Dr. PISKOUNOVA, Olga Dr. PISKOUNOVA, Olga
17:55	[908] Characteristic for long GRBs with high energy component presence, which not required cosmological corrections	ARKHANGELSKAJA, Irene
18:10	[714] Systematic search for gamma-ray periodicity in active galactic nuclei detected by the Fermi-Large Area Telescope	Dr. PEÑIL, Pablo
18:25	[834] TAIGA – an innovative hybrid array for and high energy gamma astronomy, cosmic ray physics and astroparticle physics	Prof. BUDNEV, Nikolay
18:40	[912] First detection of gamma-ray sources at TeV energies with the first imaging air Cherenkov telescope of the TAIGA installation	POSTNIKOV, Evgeny
18:55	[913] The results of analysis of Ia supernovae redshift distribution on data of the Asiago Supernova and Open Supernova Catalogues	ARKHANGELSKAJA, Irene
19:10	[792] The first results obtained with array of 16 electron-neutron detectors in INR RAS	SHCHEGOLEV, Oleg