

Table of contents

Thursday 24 October 2024	1
Friday 25 October 2024	2

The 7th international conference on particle physics and astrophysics

Thursday 24 October 2024

Facilities and advanced detector technologies: Oral talks - Moskvorechye 1 (09:30-11:30)

-Conveners: Alexander Bolozdynya

time	[id] title	presenter
09:30	[3] Muonography on Kamenny Island in Lake Kubenskoye	Mr. ZAINUTDINOV, D.
09:45	[326] Converters of very cold and ultracold neutrons: Monte Carlo simulation of their properties and specifics of available data libraries and software	Mr. PHAM, Khac Tuyen
10:00	[64] Development and implementation of technologies for a new ultracold neutron sources based on superfluid helium	LIAMKIN, Vitalii
10:15	[72] The "Neutron Beta Decay" installation for the reactor PIK	FOMIN, Alexey
10:30	[224] Optical scheme of the neutrino channel with magnetic horns and dipoles at the U-70 accelerator complex	NOVOSKOLTSEV, Fedor
10:45	[165] Multiple heavy ion injection into NICA Booster	Mr. MARTYNOV, Andrei
11:00	[40] DSSD based detection system of the DGFERS-2 setup: design, results, developments	TSYGANOV, Yury
11:15	[292] A Review of NEST Models, and Their Application to Particle Identification	Dr. KOZLOVA, Ekaterina

Facilities and advanced detector technologies - Moskvorechye 1 (17:00-19:00)

-Conveners: Grigory Feofilov

time	[id] title	presenter
17:00	[77] Status of the ALICE Fast Interaction Trigger for the Run 3	SUKHANOV, Mikhail
17:15	[122] CMS CSC longevity study	Mr. PERELYGIN, Victor
17:30	[17] Design and performance of a prototype gaseous beam monitor with GEM and pixel sensors for the CSR external-target experiment	WANG, Hulin
17:45	[243] Results of modeling of multi-wire drift chamber used in TREK detector	Ms. ABROO, Uruj
18:00	[98] Artificial neural network approach to detector configuration optimization based on the impact parameter estimation problem.	GALAKTIONOV, Kirill
18:15	[234] Deep Learning Method for Determining EAS Parameters in TAIGA HiSCORE	KRYUKOV, Alexandr
18:30	[286] Radiation hardness study of optical glasses for the DIRC technology	Dr. PATSYUK, Maria

Friday 25 October 2024

Facilities and advanced detector technologies: Oral talks - Moskvorechye 1 (09:00-11:00)

-Conveners: Vladimir Kazalov

time	[id] title	presenter
09:00	[278] Simulation of lepton tracks from neutrino events in the upgraded ND280 detector complex of the T2K experiment.	Mr. SHVARTSMAN, Alexandr
09:15	[191] Study of wavelength-shifting plates for the outer detector Hyper-Kamiokande	EROFEEV, Gleb
09:25	[55] Study of the possibility of using 3D printing in low-background experiments	KAZALOV, Vladimir
09:35	[225] Studies of single-photoelectron response of 20-inch NNVT MCP-PMT	Mr. USHAKOV, Nikita
09:45	[176] Measurements of light yield quenching and the ^{14}C content in liquid scintillator of 5 ton prototype of Baksan Large Neutrino Telescope Project	SIDORENKOV, Andrei
09:55	[216] Infrastructure of 5 ton Baksan large neutrino telescope prototype	LUKANOV, Arslan
10:10	[210] Simulation of the background from (α, n) reactions in the JUNO scintillator	GROMOV, Maxim
10:25	[271] Highly Granular Time-of-Flight Neutron Detector HGND for the BM@N experiment	MOROZOV, Sergey
10:40	[312] A concept of neutrino scintillation detector with threshold below 1 keV	STRIZHAK, Alexander

Facilities and advanced detector technologies: Oral talks - Moskvorechye 1 (11:30-13:30)

-Conveners: Vasilii Mochalov

time	[id] title	presenter
11:30	[244] Challenges for next generation of vertex detectors for collider experiments	FEOFILOV, Grigory
11:45	[93] Review of achievements in the development of two-phase emission detector technology and setting up experiments in modern particle physics	Dr. BOLOZDYNYA, Alexander
12:00	[311] Electromagnetic Calorimeter of the Belle II Detector	KUZMIN, Alexander
12:15	[273] Relative calibration of the TUS photodetector in flight	BLINOV, Alexandr
12:30	[101] Simulation of the total MPD/ECAL setup for cosmic ray calibration	Mr. MARTEMIANOV, M. A.
12:45	[242] Performance of the trigger system of the MPD experiment	RIABOV, Victor
13:00	[108] Time-over-Threshold Method for the BM@N Highly-Granular Neutron Detector	KARPUSHKIN, Nikolay
13:15	[194] PMT/WLS plate optical modules for Cherenkov detectors	STROKE, Yan

Facilities and advanced detector technologies: Oral talks - Petrovskiy 2 (16:30-19:00)

-Conveners: Grigory Feofilov

time	[id] title	presenter
16:30	[248] Performance of the Time-of-Flight detector systems at the BM@N experiment	ZHAVORONKOVA, Irina
16:45	[138] Performance of the Scintillation Wall in the the first physics run at the BM@N Experiment	VOLKOV, Vadim

16:55	[297] The BM@N experiment online data processing and QA system	GABDRAKHMANOV, Ilnur
17:10	[7] Development of beam trigger detectors for the BM@N experiment	Mr. VELICHKOV, Valyo
17:25	[10] Misalignment influence on the track reconstruction in the MPD TPC	KUZMIN, Valentin
17:40	[183] Evaluating ML-Accelerated Simulations of the Time Projection Chamber for the MPD Experiment.	GHAZZAWI, Fares
17:55	[182] Comparative study of wavelength shifters for scintillation tile readout	DUBININ, Filipp
18:05	[105] Validating position reconstruction algorithm with ^{241}Am - ^9Be neutron source in DEAP-3600	ILYASOV, Aidar
18:15	[199] Development of neutron reconstruction procedure with the HGND at the BM@N experiment	SHABANOV, Arseniy
18:25	[70] Calculations of the efficiency of the Highly Granular Neutron Detector prototype in detecting spectator neutrons in the BM@N experiment	ZUBANKOV, Aleksandr
18:35	[186] Development of a full-scale readout for the active scintillator layers of the HGND detector at the BM@N experiment	MAKHNEV, Aleksandr
18:45	[37] Development and tests of the 100 ps FPGA-based TDC readout board for high granular time-of-flight neutron detector at BM@N experiment.	FINOGEEV, Dmitry