

Table of contents

| | |
|---------------------------------|---|
| Wednesday 07 October 2020 | 1 |
| Thursday 08 October 2020 | 2 |
| Friday 09 October 2020 | 3 |

The 5th international conference on particle physics and astrophysics

Wednesday 07 October 2020

Facilities and Advanced Detector Technologies: 1 - Facilities (11:00-13:15)

-Conveners: Alexey Drutskoy

| time | [id] title | presenter |
|-------|--|-------------------------|
| 11:00 | [710] Electron beam test of the MPD electromagnetic calorimeter on the «Pakhra» synchrotron | Mr. MARTEMIANOV, M.A. |
| 11:15 | [711] Calibration of NICA-MPD electromagnetic calorimeter modules with cosmic muons | BHATTACHARJEE, Maharnab |
| 11:30 | [825] Time response simulation of a “shashlyk”-type calorimeter as applied to ECAL MPD / NICA | SKOBLIAKOV, Aleksei |
| 11:45 | [704] Forward hadron calorimeter (PSD) upgrade for the NA61/SHINE experiment | MOROZOV, Sergey |
| 12:00 | [659] Performance and upgrade plans of the ALICE Photon Spectrometer | Dr. BLAU, Dmitry |
| 12:20 | [677] Operation and Performance of the ATLAS Tile Calorimeter | PEDRO, Rute |
| 12:40 | [678] Upgrade of the ATLAS Hadronic Tile Calorimeter for the High Luminosity LHC | CLEMENT, Christophe |
| 13:00 | [679] The Burn-in testing of advanced custom low-voltage power supply components within ATLAS TileCAL testing facilities | MCKENZIE, Ryan |

Facilities and Advanced Detector Technologies: 2 - Facilities (17:55-20:10)

-Conveners: Alexander Bolozdynya

| time | [id] title | presenter |
|-------|--|-----------------------------|
| 17:55 | [614] Status of the installation and commissioning of the first GEM station at the CMS experiment | Dr. FALLAVOLLITA, Francesco |
| 18:15 | [620] Status of the Phase-2 Tracker Upgrade of the CMS experiment at the HL-LHC | CALLIGARIS, Luigi |
| 18:35 | [617] Commissioning of the new small-diameter Monitored Drift Tube detectors for the phase-1 upgrade of the ATLAS muon spectrometer. | Dr. VOEVODINA, Elena |
| 18:50 | [680] Gas gain study of a large-size multilayer Micromegas | DUBININ, Filipp |
| 19:05 | [638] Registration of the transition radiation with GaAs detector: data/MC comparison | Mr. BELYAEV, Nikita |
| 19:20 | [644] A concept of the transition radiation detector for a hadron separation in a forward direction of the LHC experiments | Dr. TIKHOMIROV, Vladimir |
| 19:40 | [904] Study of charge sharing effect in a GaAs:Cr-based Timepix3 detector | RASTORGUEV, Daniil |
| 19:55 | [744] Mechanic and cooling systems for the new pixel detectors in High energy physics experiments | NESTEROV, Dmitrii |

Thursday 08 October 2020

Facilities and Advanced Detector Technologies: 3 - Facilities (11:00-13:00)

-Conveners: Marina Chadeeva

| time | [id] title | presenter |
|-------|---|---|
| 11:00 | [709] Development of the scintillation detector prototypes with SiPM readout for SPD at NICA | Mr. TISHEVSKIY , Aleksey |
| 11:15 | [723] Validation of Geant4 simulation and digitisation of a SiPM-on-tile system | KORPACHEV, Sergey |
| 11:30 | [735] ALICE FIT data processing and performance during LHC Run3 | Mrs. MAEVSKAYA , Alla |
| 11:45 | [660] Planacon XP85002/FIT-Q MCP-PMTs for the ALICE FIT detector | MELIKYAN, Yury |
| 12:00 | [685] Geant4 quartz fiber simulations as part of luminometer development for CMS | ■■■■■■■■■■■■, ■■■■■■ AYDILEK, Orhan CERCI, Salim OZKORUCUKLU, Suat SUNAR CERCI, Deniz |
| 12:15 | [604] Improving the precision of calibrating a large low-background proportional counter | Dr. KAZALOV, V.V. |
| 12:30 | [639] Radiation hardness of GaAs: Cr semiconductor detectors after irradiation with fast neutrons at the IBR-2 reactor. | KRUCHONAK, Uladzimir |
| 12:45 | [653] Development and characterization of novel silicon sensors for neutron detection | MASTROBERARDINO, Anna |

Friday 09 October 2020

Facilities and Advanced Detector Technologies: 4 - Facilities (11:00-13:15)

-Conveners: Vasilii Mochalov

| time | [id] title | presenter |
|-------|--|--|
| 11:00 | [587] Soft photon study at NICA's facilities | Prof. KOKOULINA, Elena |
| 11:20 | [848] Feasibility studies for the measurement of single-spin asymmetry in inclusive K0s production at pion beam at U70. | Mr. KALUGIN, Nikita |
| 11:35 | [882] Future physics program and prospectives for the NA61/SHINE large acceptance particle spectrometer at the CERN SPS. | SERYAKOV, Andrey |
| 11:55 | [861] The SuperFGD for the T2K near detector upgrade | DOUQA, Dana |
| 12:15 | [869] Simulation of the response of the URAN and PRISMA-32 facilities to the passage of the EAS | IZHBULYAKOVA, Zarina |
| 12:30 | [796] Results of testing the optical module for the Cherenkov water detector | KHOKHLOV, Semyon KINDIN, Victor Mrs. IZHBULYAKOVA, Zarina |
| 12:45 | [805] A gamma-ray imaging camera for NORM radioactivity detection | ALTOMARE, Corrado |

Facilities and Advanced Detector Technologies: 5 - Facilities (16:55-19:10)

-Conveners: Yuri Kharlov

| time | [id] title | presenter |
|-------|---|-----------------------------|
| 16:55 | [606] Advanced multi-platform visualization framework for particle physics experiments | NOZIK, Alexander |
| 17:10 | [851] The Noble Element Simulation Technique | KOZLOVA, Ekaterina |
| 17:25 | [917] GPU based photon propagation for CORSIKA 8 | BAACK, Dominik |
| 17:40 | [808] High-performance optimization of simulation and reconstruction modules in the BM@N software at the NICA | NEMNYUGIN, Sergei |
| 17:55 | [897] A study of the ionization efficiency for nuclear recoils in pure crystals | Dr. YOUSSEF, Sarkis |
| 18:10 | [686] Analytical solutions at amplitude and time measurements from discrete sampling of pseudo-Gaussian signals | Dr. BOGOLYUBSKY, Mikhail |
| 18:25 | [776] Investigation of variations in the intensity of the muon flux in the time series of matrix data of the URAGAN hodoscope | CHINKIN, Vlad |