

Session Program

21-25 Oct 2019



Welcome to NICA days 2019 and IVth MPD Collaboration Meeting in Warsaw

TeFeNICA Session

CZiITT, Conference room...

Centrum Zarządzania Innowacjami i Transferem Technologii Politechniki Warszawskiej czyitt@pw.edu.pl
ul. Rektorska 4 00-614 Warszawa

Friday 25 October

08:30

TeFeNICA Session

Session |

Location: Centrum Zaawansowanych Materiałów i Technologii CEZAMAT, Poleczki 19, 02-822 Warszawa, Polska

08:30–08:40 **Development and optimization of mpdroot software**

Speakers

Daniel Osinski, Wojciech Żurkowski

08:40–08:50

Management of the Monte Carlo simulation process in the MPD experiment on the NICA cluster

Speaker

Łukasz Sawicki

08:50–09:00

Managing large scale computing for MPD experiment

Speaker

Krzysztof Dygmarowicz

09:00–09:10

Implementation of THERMINATOR generator to the MpdRoot environment.

Speakers

Mr Maksymilian Odziemczyk, Filip Jakubczak

09:10–09:20

Integration of the Therminator model with the MpdRoot environment

Speaker

Robert Mikoś

09:20–09:30

Application of PROOF system to optimization processes of physical analysis for the MPD experiment

Speaker

Kacper Skelnik

09:30–09:40

Modelling Au-Au collisions in NICA collider energy spectrum using MPD programming environment

Speakers

Maja Tureczek-Zakrzewska, Marta Monikowska

09:40–09:50

Implementation of algorithms for reconstruction and identification of baryons, including strange baryons, in MPD experiment

Speaker

Jakub Zielinski

09:50–10:00

Particle identification based on combined information from ToF and TPC

Speaker

Mr Tomasz Zawiałak

10:00–10:10 Quality Assurance of particle collision simulation in MPDRoot**Speaker**

Aleksandra Mazur

10:10–10:20**Development and optimization of detector visualization and MPD data****Speaker**

Arkadiusz Czarniecki

10:20–10:30 Development of visualisation for MPD experiment**Speaker**

Mateusz Kowal

10:30–10:50 Coffee break**10:50–11:00****Naming and numbering application development for Equipment Database****Speakers**

Adam Biegański, Jakub Mrówczyński

11:00–11:10 Cable tester design for NICA-MPD Platform**Speaker**

Grzegorz Nakielny

11:10–11:20**Design and Implementation of a control and measurement system for testing the quality of Fiber Optic Tracks for the Slow Control System of the BM@N and MPD-NICA experiment****Speaker**

Dawid Kraško

11:20–11:30**Upgrade of the MPD/TOF Test Stand Gas System and Control Software****Speaker**

Mr Filip Mąkolski

11:30–11:40**Time synchronization of electronic devices in RACKs NICA-MPD-PLATFORM using GPS NI-9467-c-RIO****Speakers**

Kamil Chęć, Piotr Sawicki, Monika Wasilewska

11:40–11:50**Fire extinguishing unit software development for the Slow Control system of the MPD-ToF detector****Speaker**

Nikita Dunin

11:50

12:35

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12:35–12:45 **XYZ Scanner for magnetic field studies**

Speaker

Witold Olech

12:45–12:55

Conception and development of the system for the magnetic field strength measurement in the NICA-MPD PLATFORM surroundings created using NI myRIO technology

Speakers

Jakub Głuch, Paulina Marikin

12:55–13:05

Embedded data processing using NI MyRIO and LabVIEW for magnetic field measurements

Speaker

Hanna Gałach

13:05–13:15

R&D of the r , φ scanner mechanical construction for the scintillator detector background radiation measurements

Speakers

Martyna Winnik, Monika Nadolna

13:15–13:25

α , β , γ radiation monitoring in the working area of the MPD Slow Control electronic equipment.

Speakers

Ms Alicja Jakubowska, Ms Marta Robak, Ms Anita Zagrobelna

13:25–13:35

Design and heat transfer simulations for the MPD-TOF detector cooling system

Speaker

Agata Ptak

13:35–13:45

Data Acquisition from spectrometry and dosimetry systems using LabView environment

Speakers

Ms Urszula Dąbrowska, Ms Paulina Zawadzka, Ms Ewelina Kołpa

13:45–13:55

Analyzing the thermal images taken by Fluke TiS20 thermal imager

Speaker

Filip Protoklitow

13:55–14:05

Heat transfer simulation of the BM@N -STS detector

Speaker

Maciej Czarnynoga

14:05–14:15

Heat transfer simulations for three TOF-MPD detector modules

Speaker

Mr Kacper Nowacki

14:15-14:25

Optimization of the gas distribution system for the MPD-TOF detector module**Speaker**

Mr Andrzej Ryczek

14:25-14:35

The prototype of an air based cooling system for the Slow Control System of the MPD-TOF detector**Speakers**

Anna Szumigala, Michał Maciałowicz

14:35-14:45

Heat transfer simulation of the MPD-TPC detector**Speaker**

Maciej Czerkawski

14:45-14:55

Heat simulations for the pxi module and rack 42u**Speaker**

Michał Gałązka

14:55-15:05

Analysis of background radiation with a scintillation counter**Speakers**

Kamila Kempny, Paweł Dębowski, Anna Kierznowska

15:05-15:15

Design of cooling system for equipment installed in RACK's 42U 19"**Speaker**

Bartłomiej Juruc

15:15-15:25

Setup of the heat transfer inside the TOF-MPD detector**Speakers**

Jakub Zdziebłowski, Krystian Idźkowski

15:25-15:35

Integration of temperature monitoring software inside the Master and Slave 19 " RACK cabinets for the Slow Control System of the MPD-TOF detector**Speaker**

Monika Kutyla

15:35-15:45

Software for device designed to measure radiation absorption of various materials**Speakers**

Mr Maciej Marcinkiewicz, Mr Michał Foltys

15:45-15:55

Monitoring and stabilisation of the test laboratory environment Time od Flight for NICA - MPD - PLATFORM**Speakers**

Klaudia Pachulska, Jędrzej Kołaś

17:05