

Program

13–15 May 2025



14th Collaboration Meeting of the BM@N Experiment at NICA

VBLHEP JINR, Conference Hall, Bld. 3

Tuesday 13 May

09:00

Bus: Dubna Hotel --> VBLHEP

Session | Location: Dubna Hotel

09:30

09:30

Registration

Session | Location: VBLHEP, Conference Hall, Bld.3

10:00

10:00

Plenary

Session | Location: VBLHEP JINR, Conference Hall, Bld.3 | Convener: Sergei Merts

10:00–10:05

Welcome and Opening (the JINR Directorate)

Speaker

Vladimir Kekelidze

10:05–10:25

Status of the BM@N experiment

Speaker

Richard Lednicky

10:25–10:50

Status of the BM@N detector

Speaker

Semen Piyadin

10:50

10:50

Photo

Session | Location: VBLHEP, Conference Hall, Bld.3

11:00

11:00

Coffee Break

Break | Location: VBLHEP, Canteen, 2nd Floor

11:30

11:30

Analysis meeting

Session | Location: VBLHEP, Conference Hall, Bld.3 | Convener: Sergei Merts

11:30–12:05

Status of hyperon analysis in Run 8

Speaker

Alexander Zinchenko

12:05–12:30

Production of Lambda hyperons in 4.0 AGeV and 4.5 AGeV carbon-nucleus interactions at the Nuclotron

Speaker

Ksenia Alishina

12:30–12:55

Study of neutron emission from target spectators in Xe + CsI collisions at 3.8 A GeV with a compact TOF spectrometer

Speaker

Nikita Lashmanov

12:55

12:55

Lunch

Break | Location: VBLHEP, Canteen

14:00

14:00

Analysis meeting

Session | **Location:** VBLHEP, Conference Hall, Bld.3 | **Convener:** Alexander Zinchenko

14:00–14:25

Why is it interesting to study central collisions of heavy projectiles with light targets at the BM@N?

Speaker

Igor Pshenichnov

14:25–14:45

Status of baryon femtoscopy in Ar run

Speaker

Petr Alekseev

14:45–15:10

Status of hypernuclei signal reconstruction in Xe+CsI Collisions in the BM@N experiment

Speaker

Sergei Merts

15:10–15:30

Status of phi-meson signal reconstruction in Xe+CsI collisions in the BM@N experiment

Speaker

Ramin Barak

15:30–15:45

On the measurement of the Xe+CsI inelastic cross section

Speaker

Mikhail Kapishin

15:45

15:45

Coffee Break

Break | **Location:** VBLHEP, Canteen, 2nd Floor

16:15

16:15

IB meeting: <https://indico.jinr.ru/event/5296/>

Session | **Location:** VBLHEP, Room 241, Bld.215 | **Convener:** Mikhail Merkin

18:00

Wednesday 14 May

09:30

Detector meeting

Session | Location: VBLHEP, Conference Hall, Bld.3 | Convener: Semen Piyadin

09:30–09:45 Upgrade of the trigger detectors

Speaker

Valyo Velichkov

09:45–10:00 Status of the trigger system

Speaker

Sergey Sedykh

10:00–10:20 Status of the first Si-plane based on STS modules

Speaker

Dmitrii Dementev

10:20–10:40 Waiting for the beam of relativistic nuclei (^{124}Xe) at BM@N

Speaker

Nikolay Zamyatin

10:40

10:40

Coffee break

Break | Location: VBLHEP, Canteen, 2nd Floor

11:10

11:10

Detector meeting

Session | Location: VBLHEP, Conference Hall, Bld.3 | Convener: Semen Piyadin

11:10–11:30 Profilometer of the beam for BM@N

Speaker

Danil Chemezov

11:30–11:50 Preparation of forward detectors to forthcoming beam run

Speaker

Sergey Morozov

11:50–12:10

Status of the HGND mechanics assembly and tests of the full scale HGND scintillation layer

Speaker

Aleksandr Makhnev

12:10–12:30 Status of the HGND DAQ tests

Speaker

Dmitry Finogeev

12:30–12:50 Status of the Slow Control System

Speaker

Ilya Osokin

12:50

12:50

14:00

Lunch

Break | Location: VBLHEP, Canteen

14:00

Analysis meeting

Session | Location: VBLHEP, Conference Hall, Bld.3 | Convener: Alexander Zinchenko

14:00–14:20

Bayesian approach for centrality determination in nucleus-nucleus collisions at the BM@N experiment**Speaker**

Dim Idrisov

14:20–14:50

Updates on the directed flow of charged hadrons**Speaker**

Mikhail Mamaev

14:50–15:05

Quality Assurance in Xe+CsI run**Speaker**

Alexander Demanov

15:05–15:25

Status and plans of software development for forward detectors**Speaker**

Nikolay Karpushkin

15:25

15:25

15:50

Coffee break

Break | Location: VBLHEP, Canteen, 2nd Floor

15:50

Analysis meeting

Session | Location: VBLHEP, Conference Hall, Bld.3 | Convener: Alexander Zinchenko

15:50–16:05

Status of TOF systems: Data reconstruction and preparation for future run**Speaker**

Mikhail Rumyantsev

16:05–16:25

Status of analysis of charged fragments production measured with ScWall in Xe+CsI reaction at 3.8 A GeV**Speaker**

Vadim Volkov

16:25–16:45

Analysis of neutron yields in the Xe+CsI reaction at 3.8 AGeV measured by the HGND prototype**Speaker**

Aleksandr Zubankov

16:45–17:05

Development of cluster method for neutron identification and energy determination with the HGND**Speaker**

Arseniy Shabanov

17:05–17:25

Graph Neural Network-based Neutron Reconstruction in the HGND at the BM@N experiment**Speaker**

Vladimir Bocharnikov

17:25

19:00

22:00

Collaboration Dinner

Session | Location:

Thursday 15 May

09:30

Software meeting

Session | Location: VBLHEP, Conference Hall, Bld.3 | Convener: Konstantin Gertsenberger

09:30–09:55 **Status of the raw data decoder and online QA**

Speaker

Ilnur Gabdrakhmanov

09:55–10:15 **Design of the Data Quality Monitoring system for the BM@N experiment**

Speaker

Igor Alexandrov

10:15–10:30 **Geometry of hybrid tracker in the BM@N experiment for RUN 9**

Speaker

Dmitriy Baranov

10:30–10:45 **Development of a virtual assistant for shift operators of the BM@N experiment**

Speaker

Ilya Romanov

10:45–11:00 **BM@N DAQ Data Centre**

Speaker

Ilya Slepnev

11:00

11:00

Coffee Break

Break | Location: VBLHEP, Canteen, 2nd Floor

11:30

11:30

Software meeting

Session | Location: VBLHEP, Conference Hall, Bld.3 | Convener: Konstantin Gertsenberger

11:30–11:45 **Airflow automation of online data processing for BM@N Run 9**

Speaker

Nikita Ilyin

11:45–12:05 **Preparation of DIRAC distributed computing infrastructure for BM@N Run 9**

Speaker

Igor Pelevanyuk

12:05–12:20 **Using containerization for BM@N distributed data processing**

Speaker

Rinat Nizamov

12:20–12:40 **Data Management System based on the DIRAC File Catalog for BM@N**

Speaker

Igor Zhironkin

12:40–13:00 **Integration Geometry and Configuration Information Systems into BM@N data processing**

Speaker

Evgeny Alexandrov

13:00

13:00

14:00

14:00

15:45

Lunch

Break | Location: VBLHEP , Canteen

Software meeting

Session | Location: VBLHEP, Conference Hall, Bld.3 | Convener: Konstantin Gertsenberger

14:00–14:25 **Development of new Event Display and auxiliary software for BM@N experiment**

Speaker

Igor Dunaev

14:25–14:40 **Application of machine learning for particle tracking in BM@N**

Speaker

Anatoly Aleksandrov

14:40–14:55 **Status of the BM@N software infrastructure and future plans**

Speaker

Alexander Chebotov

14:55–15:30 **BM@N Software Readiness for Run 9**

Speaker

Konstantin Gertsenberger