

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



Report of Contributions

Contribution ID: 135

Type: **not specified**

Welcome and Opening (the JINR Directorate)

Tuesday 13 May 2025 10:00 (5 minutes)

Presenter: KEKELIDZE, Vladimir (LHEP, JINR)

Session Classification: Plenary

Contribution ID: **136**

Type: **not specified**

Status of the BM@N experiment

Tuesday 13 May 2025 10:05 (20 minutes)

Presenter: LEDNICKY, Richard (JINR Dubna)

Session Classification: Plenary

Contribution ID: **137**

Type: **not specified**

Status of the BM@N detector

Tuesday 13 May 2025 10:25 (25 minutes)

Presenter: PIYADIN, Semen

Session Classification: Plenary

Contribution ID: **138**

Type: **not specified**

Status of hyperon analysis in Run 8

Tuesday 13 May 2025 11:30 (35 minutes)

Presenter: ZINCHENKO, Alexander (Joint Institute for Nuclear Research)

Session Classification: Analysis meeting

Contribution ID: 139

Type: **not specified**

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

Tuesday 13 May 2025 12:05 (25 minutes)

Presenter: ALISHINA, Ksenia (Russia)

Session Classification: Analysis meeting

Contribution ID: 140

Type: **not specified**

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

Tuesday 13 May 2025 12:30 (25 minutes)

Presenter: LASHMANOV, Nikita (Joint Institute for Nuclear Research)

Session Classification: Analysis meeting

Contribution ID: 141

Type: **not specified**

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

Tuesday 13 May 2025 14:00 (25 minutes)

Presenter: PSHENICHNOV, Igor (Institute for Nuclear Research, Russian Academy of Sciences)

Session Classification: Analysis meeting

Contribution ID: **142**

Type: **not specified**

Status of baryon femtoscopy in Ar run

Tuesday 13 May 2025 14:25 (20 minutes)

Author: ALEKSEEV, Petr

Presenter: ALEKSEEV, Petr

Session Classification: Analysis meeting

Contribution ID: 143

Type: **not specified**

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

Tuesday 13 May 2025 14:45 (25 minutes)

Presenter: MERTS, Sergei (JINR, LHEP)

Session Classification: Analysis meeting

Contribution ID: 144

Type: **not specified**

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

Tuesday 13 May 2025 15:10 (20 minutes)

Presenter: BARAK, Ramin (VBLHEP JINR)

Session Classification: Analysis meeting

Contribution ID: 145

Type: **not specified**

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

Wednesday 14 May 2025 14:00 (20 minutes)

Presenter: IDRISOV, Dim

Session Classification: Analysis meeting

Contribution ID: **146**

Type: **not specified**

Updates on the directed flow of charged hadrons

Wednesday 14 May 2025 14:20 (30 minutes)

Presenter: MAMAEV, Mikhail (NRNU MEPhI)

Session Classification: Analysis meeting

Contribution ID: **147**

Type: **not specified**

Quality Assurance in Xe+CsI run

Wednesday 14 May 2025 14:50 (15 minutes)

Presenter: DEMANOV, Alexander

Session Classification: Analysis meeting

Contribution ID: **148**

Type: **not specified**

Status and plans of software development for forward detectors

Wednesday 14 May 2025 15:05 (20 minutes)

Presenter: KARPUSHKIN, Nikolay (INR RAS)

Session Classification: Analysis meeting

Contribution ID: 149

Type: **not specified**

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

Wednesday 14 May 2025 16:05 (20 minutes)

Presenter: VOLKOV, Vadim (INR RAS)

Session Classification: Analysis meeting

Contribution ID: 150

Type: **not specified**

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

Wednesday 14 May 2025 16:45 (20 minutes)

Presenter: SHABANOV, Arseniy (INR RAS)

Session Classification: Analysis meeting

Contribution ID: 151

Type: **not specified**

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

Wednesday 14 May 2025 16:25 (20 minutes)

Presenter: ZUBANKOV, Aleksandr (Institute for Nuclear Research of the Russian Academy of Sciences)

Session Classification: Analysis meeting

Contribution ID: 152

Type: **not specified**

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

Wednesday 14 May 2025 17:05 (20 minutes)

Presenter: BOCHARNIKOV, Vladimir (HSE University)

Session Classification: Analysis meeting

Contribution ID: **153**

Type: **not specified**

Upgrade of the trigger detectors

Wednesday 14 May 2025 09:30 (15 minutes)

Presenter: VELICHKOV, Valyo

Session Classification: Detector meeting

Contribution ID: **154**

Type: **not specified**

Status of the trigger system

Wednesday 14 May 2025 09:45 (15 minutes)

Presenter: SEDYKH, Sergey

Session Classification: Detector meeting

Contribution ID: 155

Type: **not specified**

Status of the first Si-plane based on STS modules

Wednesday 14 May 2025 10:00 (20 minutes)

Presenter: DEMENTEV, Dmitrii (JINR LHEP)

Session Classification: Detector meeting

Contribution ID: **156**

Type: **not specified**

Waiting for the beam of relativistic nuclei (^{124}Xe) at BM@N

Wednesday 14 May 2025 10:20 (20 minutes)

Presenter: ZAMYATIN, Nikolay (JINR)

Session Classification: Detector meeting

Contribution ID: **157**

Type: **not specified**

Profilometer of the beam for BM@N

Wednesday 14 May 2025 11:10 (20 minutes)

Presenter: CHEMEZOV, Danil (VBLHEP JINR)

Session Classification: Detector meeting

Contribution ID: **158**

Type: **not specified**

Preparation of forward detectors to forthcoming beam run

Wednesday 14 May 2025 11:30 (20 minutes)

Presenter: MOROZOV, Sergey (Institute for Nuclear Research RAS)

Session Classification: Detector meeting

Contribution ID: **159**

Type: **not specified**

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

Wednesday 14 May 2025 11:50 (20 minutes)

Presenter: MAKHNEV, Aleksandr (INR of RAS)

Session Classification: Detector meeting

Contribution ID: **160**

Type: **not specified**

Status of the HGND DAQ tests

Wednesday 14 May 2025 12:10 (20 minutes)

Presenter: FINOGEEV, Dmitry (INR RAS)

Session Classification: Detector meeting

Contribution ID: **161**

Type: **not specified**

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

Wednesday 14 May 2025 15:50 (15 minutes)

Presenter: RUMYANTSEV, Mikhail (JINR)

Session Classification: Analysis meeting

Contribution ID: **162**

Type: **not specified**

Status of the Slow Control System

Wednesday 14 May 2025 12:30 (20 minutes)

Presenter: OSOKIN, Ilya (JINR)

Session Classification: Detector meeting

Contribution ID: **163**

Type: **not specified**

BM@N DAQ Data Centre

Thursday 15 May 2025 10:45 (15 minutes)

Presenter: SLEPNEV, Ilya (JINR LHEP)

Session Classification: Software meeting

Contribution ID: **164**

Type: **not specified**

Status of the raw data decoder and online QA

Thursday 15 May 2025 09:30 (25 minutes)

Presenter: GABDRAKHMANOV, Ilnur (JINR VBLHEP)

Session Classification: Software meeting

Contribution ID: **165**

Type: **not specified**

Geometry of hybrid tracker in the BM@N experiment for RUN 9

Thursday 15 May 2025 10:15 (15 minutes)

Presenter: BARANOV, Dmitriy (JINR)

Session Classification: Software meeting

Contribution ID: **166**

Type: **not specified**

Airflow automation of online data processing for BM@N Run 9

Thursday 15 May 2025 11:30 (15 minutes)

Presenter: ILYIN, Nikita

Session Classification: Software meeting

Contribution ID: **167**

Type: **not specified**

Development of a virtual assistant for shift operators of the BM@N experiment

Thursday 15 May 2025 10:30 (15 minutes)

Presenter: ROMANOV, Ilya (JINR)

Session Classification: Software meeting

Contribution ID: **168**

Type: **not specified**

Preparation of DIRAC distributed computing infrastructure for BM@N Run 9

Thursday 15 May 2025 11:45 (20 minutes)

Presenter: PELEVANYUK, Igor (Joint Institute for Nuclear Research)

Session Classification: Software meeting

Contribution ID: **169**

Type: **not specified**

Using containerization for BM@N distributed data processing

Thursday 15 May 2025 12:05 (15 minutes)

Presenter: NIZAMOV, Rinat (SPBU)

Session Classification: Software meeting

Contribution ID: 170

Type: **not specified**

Data Management System based on the DIRAC File Catalog for BM@N

Thursday 15 May 2025 12:20 (20 minutes)

Presenter: ZHIRONKIN, Igor (Sergeevich)

Session Classification: Software meeting

Contribution ID: 171

Type: **not specified**

Design of the Data Quality Monitoring system for the BM@N experiment

Thursday 15 May 2025 09:55 (20 minutes)

Presenter: ALEXANDROV, Igor (JINR)

Session Classification: Software meeting

Contribution ID: 172

Type: **not specified**

Application of machine learning for particle tracking in BM@N

Thursday 15 May 2025 14:25 (15 minutes)

Presenter: ALEKSANDROV, Anatoly (SPBU)

Session Classification: Software meeting

Contribution ID: 173

Type: **not specified**

Development of new Event Display and auxiliary software for BM@N experiment

Thursday 15 May 2025 14:00 (25 minutes)

Presenter: DUNAEV, Igor (MIPT)

Session Classification: Software meeting

Contribution ID: 174

Type: **not specified**

Integration Geometry and Configuration Information Systems into BM@N data processing

Thursday 15 May 2025 12:40 (20 minutes)

Presenter: Mr ALEXANDROV, Evgeny (JINR)

Session Classification: Software meeting

Contribution ID: 175

Type: **not specified**

Status of the BM@N software infrastructure and future plans

Thursday 15 May 2025 14:40 (15 minutes)

Presenter: CHEBOTOV, Alexander (JINR)

Session Classification: Software meeting

Contribution ID: 176

Type: **not specified**

BM@N Software Readiness for Run 9

Thursday 15 May 2025 14:55 (35 minutes)

Presenter: GERTSENBERGER, Konstantin (JINR)

Session Classification: Software meeting

Contribution ID: 177

Type: **not specified**

On the measurement of the Xe+CsI inelastic cross section

Tuesday 13 May 2025 15:30 (15 minutes)

Presenter: KAPISHIN, Mikhail (JINR, LHEP)

Session Classification: Analysis meeting