# 11th Collaboration Meeting of the BM@N Experiment at the NICA Facility

**Tuesday, 28 November 2023 - Thursday, 30 November 2023**

**VBLHEP JINR**

# Programme

# Tuesday, 28 November 2023

**Bus: from Hotel "Dubna" to VBLHEP (09:00 - 09:30)**

**Registration - Conference Hall, Building 3 (09:30 - 10:00)**

**Plenary - Conference Hall, Building 3 (10:00 - 11:30)**
   -Conveners: Sergei Merts

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|---|---|---|
| 10:00 | Welcome | KEKELIDZE, Vladimir |
| 10:05 | Status of the BM@N experiment | KAPISHIN, Mikhail |
| 10:35 | Detector installation, experimental zone | PIYADIN, Semen |
| 11:00 | Status of the Booster and Nuclotron | SYRESIN, Evgeny |

**Photo - Conference Hall, Building 3 (11:30 - 11:40)**

**Coffee Break - 2nd Floor, Canteen (11:40 - 12:00)**

**Analysis meeting - Conference Hall, Building 3 (12:00 - 13:00)**
   -Conveners: Alexander Zinchenko

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|---|---|---|
| 12:00 | Analysis of p,d,t production in argon-nucleus interations | KOVACHEV, Lalyo |
| 12:25 | Status of p-d femtoscopy | ALEKSEEV, Petr |

**Lunch - Canteen (13:00 - 14:00)**

**Analysis meeting - Conference Hall, Building 3 (14:00 - 15:40)**
   -Conveners: Alexander Zinchenko

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|---|---|---|
| 14:00 | Run 8 event reconstruction in the central tracker | ZINCHENKO, Alexander |
| 14:30 | Report on the QA and run-by-run systematics in the Xe+Cs(I) run | DEMANOV, Alexander |
| 14:50 | Effect of pile-up on centrality determination in Xe+CsI@3.8 AGeV run | KARPUSHKIN, Nikolay |
| 15:05 | Charged spectators measured in Xe+CsI@3.8 AGeV run with ScWall | VOLKOV, Vadim |

**Coffee Break - 2nd Floor, Canteen (15:40 - 16:00)**

**IB meeting: https://indico.jinr.ru/event/4082/ - Conference Hall, Building 3 (16:00 - 18:00)**
   -Conveners: Mikhail Merkin

# Wednesday, 29 November 2023

**Detector meeting - Conference Hall, Building 3 (09:30 - 11:00)**

  -Conveners: Semen Piyadin

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|---|---|---|
| 09:30 | Setup on BM@N experimental hall | PIYADIN, Semen |
| 09:45 | Status of the trigger system | SEDYKH, Sergey |
| 10:00 | Status Forward Si-Tracker (FSD) and Beam Si-Tracker (BST) | ZAMYATIN, Nikolay |
| 10:15 | Status of the GEM and CSC systems | KULISH, Elena |
| 10:30 | Status of the ToF system of the BM@N setup | RUMYANTSEV, Mikhail |
| 10:45 | Vertex detector plane based on STS modules | SHEREMETEV, Aleksie |

**Coffee break - 2nd Floor, Canteen (11:00 - 11:20)**

**Detector meeting - Conference Hall, Building 3 (11:20 - 13:00)**

  -Conveners: Semen Piyadin

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|---|---|---|
| 11:20 | Status of forward detectors readiness to the next run. Status of new HGND detector development | MOROZOV, Sergey |
| 11:40 | Status of design of the HGND active module and HGND mechanics | MAKHNEV, Aleksandr |
| 11:55 | Progress in the HGND electronics development | SEREBRYAKOV, Dmitry |
| 12:15 | Analytical description of signals from HGND scintillator cells with SiPM readout and results of the time resolution measurements | KARPUSHKIN, Nikolay |

**Lunch - Canteen (13:00 - 14:00)**

**Analysis meeting - Conference Hall, Building 3 (14:00 - 15:10)**

  -Conveners: Alexander Zinchenko

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|---|---|---|
| 14:00 | ML methods of neutron identification and energy reconstruction by HGND | BOCHARNIKOV, Vladimir |
| 14:15 | Centrality determination in Xe+Cs(I) run | SEGAL, Ilya |
| 14:35 | Anisotropic flow measurements in Xe+Cs(I) run | MAMAEV, Mikhail |
| 14:55 | Status of analysis of neutron data obtained with the compact TOF neutron spectrometer | LASHMANOV, Nikita |

**Coffee break - 2nd Floor, Canteen (15:10 - 15:30)**

**Analysis meeting - Conference Hall, Building 3 (15:30 - 16:50)**

  -Conveners: Alexander Zinchenko

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|---|---|---|
| 15:30 | Cluster method of primary neutron identification and neutron energy reconstruction by HGND | SHABANOV, Arseniy |
| 15:45 | Neutron energy reconstruction with HGND prototype in Xe+CsI@3.8 AGeV run | ZUBANKOV, Aleksandr |
| 16:00 | Detection of neutrons at 0 degrees from the dissociation of Xe@3.8 AGeV nuclei | SAKULIN, Dmitriy |

**Collaboration Dinner (19:00 - 22:00)**

# Thursday, 30 November 2023

**Software meeting - Conference Hall, Building 3 (09:30 - 11:10)**

-Conveners: Konstantin Gertsenberger

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|---|---|---|
| 09:30 | BM@N Software Roadmap | GERTSENBERGER, Konstantin |
| 09:55 | Status of the NICA offline computing cluster at LHEP | SLEPOV, Ivan |
| 10:10 | BM@N distributed computing status and analytics | PELEVANYUK, Igor |
| 10:25 | Digital Twin of BM@N computing infrastructure for data production | PRIAKHINA, Daria |
| 10:40 | Status of the Online Configuration System for BM@N online processing | ALEXANDROV, Igor |
| 10:55 | Transition to a new authorization/authentication system for BM@N | CHEBOTOV, Alexander |

**Coffee Break - 2nd Floor, Canteen (11:10 - 11:30)**

**Software meeting - Conference Hall, Building 3 (11:30 - 13:00)**

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|---|---|---|
| 11:30 | Software contribution from MIPT: Development of software systems for BM@N | KLIMAI, Peter |
| 11:45 | Software distribution system for the BmnRoot framework | BALASHOV, Nikita |
| 12:00 | Realistic simulation of central tracker detectors in the BM@N experiment | BARANOV, Dmitry |
| 12:15 | Integration of the Geometry Database for the BM@N experiment | ALEXANDROV, Evgeny |
| 12:30 | Interactive Visualization of Simulation and Experimental Event Data for BM@N | IUSUPOVA, Anastasiia |
| 12:45 | Geometry alignment for Silicon and GEM detectors of the BM@N experiment | SHARIPOV, Zarif |