



Contribution ID: 37

Type: **Talk**

Upgrade of the BM@N detector for studies of heavy ion interactions

Tuesday, August 31, 2021 12:30 PM (30 minutes)

In the next years the BM@N experiment at the Nuclotron at JINR in Dubna will carry out the physics program with heavy ion beams with energies up to 3.8 AGeV and intensities up to $2 \cdot 10^6$ ions/s. The experiment is devoted to measure observables sensitive to the equation of state of dense baryonic matter. To meet this goal the existing BM@N set-up will be upgraded with fast hybrid tracking system, which includes beam tracking detectors, a large aperture silicon tracking system, GEM stations and cathode strip chambers. The measurement of the event plane and centrality will be achieved with a forward hadron calorimeter and granular hodoscopes. The physics program and configuration of the upgraded BM@N set-up will be presented.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

BM@N <https://bmn.jinr.ru/>

Is the speaker for that presentation defined?

Yes

Details

Anna Maksymchuk
Joint Institute for Nuclear Research
<http://www.jinr.ru/>

Internet talk

Maybe

Primary authors: VISHNEVSKIY, Alexandre (Joint Institute for Nuclear Research (JINR)); MAKSYMCHUK, Anna (Joint Institute for Nuclear Research (RU)); DEMENTEV, Dmitrii (JINR); GUBER, Fedor (Russian Academy of Sciences (RU)); SCHMIDT, Hans Rudolf (Eberhard-Karls-Universitaet Tuebingen (DE)); KAPISHIN, Mikhail (JINR, Dubna); ZAMYATIN, Nikolai (Joint Institute for Nuclear Research (RU)); SENGER, Peter (GSI); MURIN, Yuri (JINR)

Presenter: MAKSYMCHUK, Anna (Joint Institute for Nuclear Research (RU))

Session Classification: B Heavy Ion Collisions and Critical Phenomena