

Study of the mPSD response in O+Ni collisions at 2 AGeV at the mCBM

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The PSD forward hadron calorimeter will be used to determine the collision geometry at the CBM experiment, which is under construction at FAIR. To test the CBM subsystems, the mCBM experiment was started at the SIS18 beamline of GSI as a part of the FAIR Phase-0 program. One of the PSD modules (mPSD) equipped with the free-streaming readout electronics has been installed and tested at the mCBM in nucleus-nucleus collisions at interaction rates up to 5 MHz. In this report, the first experimental results of the mPSD response in the O+Ni collisions at a kinetic energy of 2A GeV are discussed and compared to simulated data of DCM-QGSM-SMM model.

The speaker is a student or young scientist

Yes

Section

1. Intermediate and high energies, heavy ion collisions

Primary author: KARPUSHKIN, Nikolay (INR RAS)

Presenter: KARPUSHKIN, Nikolay (INR RAS)

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