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Studies of baryonic matter at BM@N JINR

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BM@N (Baryonic Matter at Nuclotron) is the first experiment to be realized at the accelerator complex of NICA-Nuclotron in JINR. The aim of the BM@N experiment is to study interactions of relativistic heavy ion beams with fixed targets. The scientific program of the BM@N experiment comprises studies of nuclear matter in the intermediate energy range between experiments at SIS and NICA/FAIR facilities. The BM@N experiment is in the starting phase of its operation and has recorded first experimental data. The experimental runs were performed in the deuteron and carbon beams with the kinetic energy from 3.5 to 4.5 GeV per nucleon. The extended configuration of the BM@N set-up is being realized for the next run with the argon and krypton beams. The future experimental program of the experiment and first experimental results on the production of hyperons are presented.

Collaboration

BM@N

Content type

Experiment

Centralised submission by Collaboration

Presenter name already specified

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