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BM@N experiment for studies of baryonic matter at the Nuclotron

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The first experiment at the accelerator complex of NICA-Nuclotron BM@N (Baryonic Matter at Nuclotron) is aimed to study interactions of relativistic heavy ion beams with fixed targets. Relativistic heavy ion collisions provide the unique opportunity to investigate the properties of nuclear matter at ultra-high density and temperature. The Nuclotron heavy ion beam energy range is well suited for studies of strange mesons and multi-strange hyperons which are produced in nucleus-nucleus collisions close to the kinematic threshold. The measurements will be carried out at the BM@N experimental setup, located at the extracted beam of the Nuclotron. The BM@N setup, status of the detector upgrade for data taking with the relativistic heavy ion beams and the experimental program are presented.

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