

## Feasibility study for directed flow measurements in the BM@N experiment

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Baryonic Matter at Nuclotron is a fixed target experiment designed to probe the properties of the strongly interacting matter at the region of high baryonic densities. We report a feasibility study for measuring the directed and elliptic flow with respect to spectator symmetry plane for the recent physical run at the BM@N facility. The new results will extend the existing data available from the previous measurements of  $v_1$  and  $v_2$  in heavy ion collisions at the beam energy of several GeV. The system size and passing time dependency of  $v_1$  are discussed.

### Section

Heavy ion collisions at Intermediate and high energies

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