

## Feasibility study for anisotropic flow measurements of identified charged hadrons with fixed-target mode of the MPD experiment at NICA

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The study of the high-density equation of state (EOS) and the search for a possible phase transition in dense baryonic matter is the main goal of beam energy scan programs with relativistic heavy ions at energies 2-5 GeV.

In this work, we discuss the layout of the MPD (NICA) experiment in the fixed target mode and the anticipated performance for differential anisotropic flow measurements of identified charged hadrons at energies: 2.3-3.5 GeV.

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