

XXV International Baldin Seminar on High Energy Physics Problems
"Relativistic Nuclear Physics and Quantum Chromodynamics"



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on High Energy Physics Problems
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Performance study of the anisotropic flow measurements of identified charged hadrons with fixed-target mode of the MPD experiment at NICA

Thursday, 21 September 2023 10:00 (20 minutes)

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 $\sqrt{s_{NN}} = 2-5$ 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 hadrons at energies: $\sqrt{s_{NN}} = 2.3-3.5$ GeV.

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