

Performance study of the anisotropic flow measurements with fixed-target mode of the MPD experiment at NICA

Tuesday 2 July 2024 15:15 (20 minutes)

The study of the high-density equation of state (EoS) and the search for a possible phase transition in dense baryonic matter are one of the main goals of beam energy scan programs with relativistic heavy ion collisions at energies $\sqrt{s_{NN}}=2-5$ GeV.

The results of performance study for the differential anisotropic flow measurements of identified charged hadrons at energies $\sqrt{s_{NN}}=2.5-3.5$ GeV will be presented, using a realistic procedure for data simulation and reconstruction in the MPD experiment at NICA working in a fixed-target mode (MPD-FXT).

Section

Heavy ion collisions at Intermediate and high energies

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Session Classification: Heavy ion collisions at Intermediate and high energies