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Anisotropic flow measurements of Λ hyperons: performance study for MPD and BM@N experiments at NICA energies.

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The study of nuclear matter properties in the region of maximum baryonic density is one of the main goals of beam energy scanning programs in relativistic heavy ion collisions with energies $\sqrt{s}_{NN} = 2.4 - 11$ GeV. Among the important observables in this study is the momentum anisotropy with respect to the reaction plane, characterized by anisotropic transverse flow coefficients.

In this work, we discuss the first results of the BM@N Xe+CsI Run8 analysis and the efficacy of the invariant mass fitting method for measuring the anisotropic flow of Lambda hyperons with the MPD experiment at NICA.

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