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Directed flow of Λ hyperons in Xe+Cs(I) collisions at 3.8 AGeV in the BM@N experiment

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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 directed flow of Λ hyperons measurements for Xe+Cs(I) collisions at E_{kin}=3.8 AGeV in the BM@N experiment.

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