

Performance of hyperon global polarization measurements with NICA/MPD

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The investigation of vortical structure of matter in heavy-ion collisions at the energies of a few GeV per nucleon is one of the goals of future MPD experiment at NICA. Within this work it is done by studying global polarization of Λ hyperons within the framework of the MPD, in order to assess the performance of the detector with respect to these observables. The study is performed via Monte Carlo simulation of Bi+Bi collisions at $\sqrt{s_{NN}} = 9.02$ GeV using PHSD model.

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