

The Hyperon Polarization and the Forward-Backward Flow in the Bi+Bi collisions at NICA

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The Bi-Bi collisions at $\sqrt{s_{NN}} = 9.0$ GeV are simulated within the PHSD transport model. After spectators separation and fluidization procedure, the velocity and vorticity fields are calculated. Then, the global polarization for different hyperon species is evaluated, and its dependence on the momentum, rapidity, and centrality is analyzed. Finally, the correlations of the polarization and forward-backward flow are shown.

Section

Heavy ion collisions at Intermediate and high energies

Primary authors: Dr KOLOMEITSEV, Evgeni (BLTP, JINR, Dubna and Matej Bel University, Slovakia); TSEGELNIK, Nikita (BLTP, JINR); VORONYUK, Vadym (JINR, LHEP)

Presenter: TSEGELNIK, Nikita (BLTP, JINR)

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