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## Lambda and antilambda hyperon polarization in heavy-ion collisions within transport model

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$\Lambda$  and  $\bar{\Lambda}$  polarization in heavy-ion collisions at BES RHIC energies is studied within the microscopic transport model UrQMD. We trace the formation and space-time evolution of vorticity and helicity patterns in details. This study demands a complex analysis of the fireball conditions including time slices, extraction of temperature and baryo- and strangeness chemical potentials, as well as freeze-out conditions of both hyperons. Rapidity and transverse momentum dependence of the polarization are obtained. We show that difference in global polarization of  $\Lambda$  and  $\bar{\Lambda}$  at c.m. energies below 10 GeV can be explained by different space-time freeze-out conditions of two hyperons. Comparison with the STAR results shows a fair agreement between the model and the data.

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