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Global Lambda polarization in heavy-ion collisions with AMPT model

Summary

Abstract We study the global polarization of Lambda hyperons in peripheral Au+Au collisions in the energy range $\sqrt{s_{NN}} = 7.7 - 200$
GeV by the A Multi-Phase Transport (AMPT) model. Our results for the global Λ
polarization agree with recent STAR data. Furthermore we find a few features of the vorticity field in lower collisional energies which may contribute partially to the energy behavior of the Λ polarization.

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