

1 Global polarization of Ξ hyperons in 2 Au+Au collisions in the STAR experiment

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5 The study of global polarization in heavy-ion collisions has revealed
6 the presence of a vortical fluid with significant angular momentum and
7 vorticity. This phenomenon can be observed through weak decays of
8 particles such as Λ hyperons. Experimental data of Λ global polarization
9 from RHIC and LHC provided opportunity to get new insights into
10 the collective behavior and hydrodynamic description of the system.

11 Global polarization of multistrange hyperons, such as Ξ , can pro-
12 vide new information for hydrodynamic description of the system and
13 its vorticity structure. In this talk, we will report results of Ξ global
14 polarization measurement for Au+Au collisions at $\sqrt{s_{NN}} = 19.6$ and
15 27 GeV.