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Type: Poster

Kaon flow at HADES Au+Au @ 1.23A GeV collisions

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We present the first preliminary results on direct and elliptic flow of particles with strange content (K_s^0 and K^+) in Au+Au collisions at 1.23 AGeV measured with HADES. The study of strange particle flow in heavy-ion collision is according to the theory sensitive to in-medium hadron modifications. Kaon flow was seldom measured at such low center-of-mass energy region $\sqrt{s_{NN}} = 2.42$ GeV due to sub-threshold production of strangeness. Thanks to the quantity of 2.6 billion events of the 40 % most central collisions this study is now possible. The obtained flow parameters are compared with previously published world data as well as with flow of non-strange particles. The agreement of measurement with simulations using several transport codes is also checked.

Content type

Experiment

Collaboration

HADES

Centralised submission by Collaboration

Presenter name already specified

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