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PHENIX measurements of elliptic and triangular flow in d+Au collisions

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Results on azimuthal anisotropies in the particle production from $p+p$ and $p/d/^3$He+A at LHC and RHIC have raised the question of how small a system can be while still exhibiting collective behavior. In 2016, RHIC operations included d+Au collisions at $\sqrt{s_{NN}} = 200$, 62.4, 39, and 19.6 GeV. In this poster we present results on elliptic and triangular flow at midrapidity as a function of transverse momentum in d+Au collisions. We compare these results with several theoretical predictions in scenarios including viscous hydrodynamic flow, partonic scattering, and purely hadronic scattering in order to assess the origin of collectivity in the smallest systems.

Content type

Experiment

Collaboration

PHENIX

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