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Charged hadron flow in Cu+Au collisions at RHIC-PHENIX

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Quark Gluon Plasma (QGP) is a phase of nuclear matter at high temperature and high energy density. And this is experimentally formed by relativistic nucleus collisions at RHIC.

Flow measurements played an important role in understanding basic properties of QGP, because it reflects the initial spatial anisotropy.

In 2012, Cu+Au collisions, the first asymmetric collisions of heavy nuclei, were operated at RHIC in order to provide more differential information of QGP property.

For this purpose, various observables were measured in Cu+Au collisions for different conditions from those in symmetric collisions: participant density profiles, pressure gradients, initial triangularity at mid-central collisions and corona-less smaller nucleus in most-central collisions.

In this talk we present current analysis status of flow observables in Cu+Au 200 GeV collisions at PHENIX as a function of transverse momentum and (pseudo)rapidity

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