

Abstract Submitted
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Fragmentation function and partonic kT at $\sqrt{s_{NN}}=200$ GeV¹ JAN RAK, UNM, PHENIX COLLABORATION — Measurements of modifications to jet properties gives detailed information on the interactions of the outgoing parton with the dense nuclear medium and thereby on the nature of the QCD matter produced in heavy-ion collision. The method of leading high-pT particle azimuthal correlations is used for an analysis of the fragmentation function properties, parton intrinsic momentum kT and jet transverse fragmentation momentum jT in pp, CuCu and AuAu collisions at $\sqrt{s_{NN}}=200$ GeV. The sensitivity of combined analysis of single-inclusive and high-pT trigger associated pT distributions to the relative abundance of quark and gluon jets will be discussed.

¹for the PHENIX collaboration

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