Abstract Submitted
for the HAW05 Meeting of
The American Physical Society

Study of hadronic jet shape modification in hot QCD matter with the PHENIX detector at RHIC PAUL CONSTANTIN, Los Alamos National Lab, PHENIX COLLABORATION — It is a well established fact now that the hot QCD medium formed in central AuAu collisions at $\sqrt{s_{NN}} = 200$ GeV at RHIC suppresses the high transverse momentum hadrons from jets by inducing gluon radiation. Preliminary results on the angular distribution of hadrons within jets obtained via di-hadron correlations also show strong modifications of jet shapes due to the interaction with this medium. We present a high precision study of hadronic jet shape parameters in AuAu collisions with the di-hadron azimuthal correlation method in the intermediate (1-7GeV/c) transverse momentum region.

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Date submitted: 24 May 2005 Electronic form version 1.4