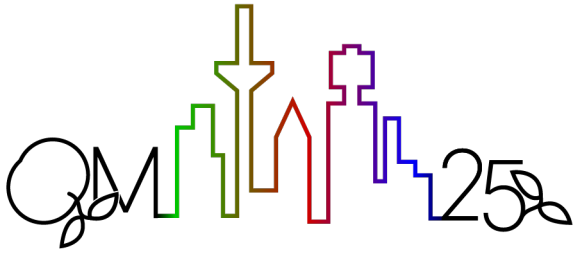

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sPHENIX Measurement of Dijet Correlations in pp sqrt(s) = 200 GeV

The sPHENIX experiment is a fully hermetic jet detector at the Relativistic Heavy Ion Collider, which includes electromagnetic and hadronic calorimetry. Jets formed in the initial parton scattering of p+p and heavy ion collisions are probes for the energy loss mechanisms in the QGP. sPHENIX, with a wide rapidity range of the calorimeter system, |eta| < 1.1, is designed to catch a majority of produced dijet pairs. The p+p data set contains 107 pbˆ-1 of sampled luminosity utilizing a series of high-pT jet triggers. In this poster, this data set is used to analyze dijet correlations including the azimuthal decorrelation and dijet asymmetry, which are important measurements to quantify the effect of the medium on jet energy loss. The results will be interpreted as a baseline vacuum pQCD measurement for the flagship jet program in Au+Au.

Category

Experiment

Collaboration (if applicable)

sPHENIX

Author: LIS, Daniel

Presenter: LIS, Daniel

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