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sPHENIX measurement of Large R_L Energy-Energy Correlator on Calorimeters in Dijet events in pp at 200 GeV

The sPHENIX experiment is a state-of-the-art detector at the Relativistic Heavy Ion Collider (RHIC) which represents the first detector with both electromagnetic and hadronic calorimeters with full azimuthal coverage and wide rapidity acceptance centered at midrapidity, thus making it well suited to measure jets. This poster presents a study of calorimeter energy-energy correlator at $0.1 < R_L < 3$ in the electromagnetic and hadronic calorimeters p+p data set taken in RHIC run 24. Dijet events are selected from 107 pb⁻¹ of sampled luminosity with high p_T jet triggers. Status of the measurement of the 2- and 3-point Energy-Energy Correlator at sPHENIX will be presented.

Category

Experiment

Collaboration (if applicable)

sPHENIX

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