



Contribution ID: 466

Type: talk

Inclusive and Semi-Inclusive Jet measurements in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV at STAR

Thursday, July 23, 2015 2:30 PM (20 minutes)

Jets represent an important tool to explore the properties of the hot and dense nuclear matter created in heavy-ion collisions. However, their reconstruction presents a challenging task due to the extremely large and fluctuating background that overwhelm the true hard jet population.

We present recent measurements of charged jets in Au+Au collisions, by the STAR collaboration at RHIC, where the background is suppressed via a new technique based on event mixing and via a cut on leading hadron transverse momentum.

The measured observables are the inclusive jet yield and the semi-inclusive yield of recoil jets from a high p_T hadron trigger.

These jet measurements allow a direct comparison of jet quenching at RHIC and the LHC and provide new constraints on theoretical calculations of jet quenching.

additional information

for the STAR collaboration

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Session Classification: Heavy Ion Physics

Track Classification: Heavy Ion Physics