



Contribution ID: 493

Type: Oral

Readiness of the sPHENIX experiment for jet physics

Tuesday 5 September 2023 12:00 (20 minutes)

sPHENIX is a new collider detector at RHIC designed for pioneering studies of the Quark-Gluon Plasma with high- p_T jet and heavy flavor probes. The jet physics program particularly relies on the sPHENIX calorimeter system, which consists of large-acceptance, hermetic electromagnetic and hadronic sections designed for high-resolution measurements of photons, electrons, hadrons, and jets. sPHENIX will begin commissioning with Au+Au collisions at 200 GeV in Spring 2023, with a large expected luminosity for measurements of jet production, structure, and correlations from the first year of data-taking. This talk will first give a technical report of the sPHENIX sub-systems relevant for jet physics and then present the status of the first physics measurements.

Category

Experiment

Collaboration (if applicable)

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Session Classification: Jets

Track Classification: Jets