



Contribution ID: 378

Type: not specified

The sPHENIX Calorimeter Readout Electronics

Thursday 6 August 2015 17:45 (15 minutes)

A new detector, sPHENIX, is being proposed to explore the quark-gluon plasma through the measurement of jet properties in heavy ion collisions at the Relativistic Heavy Ion Collider, RHIC, at Brookhaven National Laboratory. The detector is based on the 1.5T super conducting solenoid magnet formally used for the BaBar experiment and consists of charged particle tracking, electromagnetic and hadronic calorimetry with a high speed data acquisition system capable of recording data at rates up to 15 KHz. The Calorimeters will use a common readout design based on silicon photomultipliers (SiPMs) that are immune to magnetic fields for the optical readout. In this talk we will discuss the choice of technologies, global design, and the technical challenges of the calorimeter readout.

Oral or Poster Presentation

Oral

Author: MANNEL, Eric (Brookhaven National Labs)

Presenter: MANNEL, Eric (Brookhaven National Labs)

Session Classification: Accelerators, Detectors, Computing

Track Classification: Detectors