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Type: **Poster**

sPHENIX INTT Silicon Intermediate Tracker R&D status

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The sPHENIX experiment will collect high statistics proton-proton, proton-nucleus and nucleus-nucleus data at RHIC, starting in the early 2020's. sPHENIX will investigate jet modification, upsilon suppression and open heavy flavor production to probe the nature of the strongly-coupled Quark Gluon Plasma, and will perform a broad range of cold QCD studies.

The Silicon Intermediate Tracker (INTT) is one of the key detectors in the sPHENIX tracking system and plays an important role for DCA measurements, pile-up event separation, as well as charged particle tracking. The INTT, consisting of 4 layers of Silicon strip detectors, covers the radial space at 6-12cm away from the interaction point. Extensive efforts for INTT development are being made and a beam test is scheduled at FNAL in March 2018 to characterize the performance of INTT prototype modules.

We will report the latest R&D status, including the beam test results, in this presentation.

Content type

Experiment

Collaboration

sPHENIX

Centralised submission by Collaboration

Presenter name already specified

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