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Type: **Poster**

Construction and beam test results of the sPHENIX EMCal Prototype

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Construction and beam test results of the new prototype of electromagnetic calorimeter (EMCal) module for the sPHENIX detector are presented. sPHENIX will collect high statistics proton-proton, proton-nucleus and nucleus-nucleus data at the Relativistic Heavy Ion Collider (RHIC) from the early 2020's. The sPHENIX capabilities will enable investigations of jet modification, upsilon suppression and open heavy flavor production to probe the nature of Quark Gluon Plasma, and will allow a broad range of cold QCD studies. The EMCal will be the principal sub detector for identification of photons and electrons. Prototype EMCAL modules have been constructed by embedding scintillating fibers into a tower of Tungsten powder and epoxy. Performance results obtained from a run at the Fermilab Test Beam Facility in Feb 2018 will be discussed.

Content type

Experiment

Collaboration

sPHENIX

Centralised submission by Collaboration

Presenter name already specified

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