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# A Prototype of the sPHENIX Hadronic Calorimeter

The proposed sPHENIX experiment is designed to reconstruct jets in heavy-ion collisions at RHIC. A crucial component to reconstructing the energy of jets is the sPHENIX calorimeter system which includes electromagnetic and hadronic calorimeters. The hadronic calorimeter (HCal) is a sampling calorimeter with alternating layers of steel absorber and scintillating tiles. There is an inner and larger outer HCal, located inside and outside of the solenoid detector. Prototypes of the EMCal, inner HCal and outer HCal were tested at the Fermilab Test Beam Facility. Measurements of the energy resolution satisfy the requirements of the proposed sPHENIX physics program and are consistent with GEANT4 simulations.

## Preferred Track

Future Experimental Facilities, Upgrades, and Instrumentation

## Collaboration

sPHENIX

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