

Abstract Submitted  
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**The sPHENIX Detector at RHIC** JOHN HAGGERTY, Brookhaven National Laboratory, PHENIX COLLABORATION — The sPHENIX detector is a proposal to build a superconducting solenoidal spectrometer covering two units of rapidity with excellent electromagnetic and hadronic calorimetry at RHIC. The detector is designed for studying the Quark Gluon Plasma with reconstructed jets, but can serve as a basis for future measurements of upsilon states, neutral pion, direct photon, and photon-jet measurements. The detector design takes advantage of technological advances, a dozen years of PHENIX upgrades and operations, and the flexibility of the RHIC accelerator facility to provide a diverse range of collision species and energies for a premier facility to study hot, dense nuclear matter.

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