

Design, status and schedule of the sPHENIX experiment at RHIC

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The 2015 US Nuclear Physics Long Range Plan calls for a state-of-the-art jet and upsilon detector at RHIC, called sPHENIX, to study the microscopic nature of the QGP, complementing similar studies at the CERN LHC. The sPHENIX detector will provide precision vertexing, tracking and full calorimetry over pseudorapidity $|\eta| < 1.1$ and full azimuth at the full RHIC collision rate, delivering unprecedented data sets for jet and upsilon measurements at RHIC. This will enable the three pillars of the sPHENIX physics program, i.e., studies of jet structure modifications, measurements of heavy-flavor tagged jet production and precision upsilon spectroscopy. In this talk we will present an overview of the sPHENIX detector design, expected construction and running schedule and planned physics program.

Preferred Track

Future Experimental Facilities, Upgrades, and Instrumentation

Collaboration

sPHENIX

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