sPHENIX: A New Experiment at RHIC

John Haggerty
Brookhaven National Laboratory

sPHENIX is a proposal for a second generation experiment at RHIC designed to measure
• Jets and jet correlations
• Upsilon spectroscopy
to determine the temperature dependence of transport coefficients of the quark-gluon plasma using
• electromagnetic and hadronic calorimetry
• precision tracking.
The experiment enables a program of systematic measurements near the transition temperature at RHIC
with a detector capable of acquiring a huge sample of events in p+p, p+A, and A+A collisions from a large
acceptance spectrometer.

For more information
• see the proposal arXiv:1501.06197
• come to the first collaboration meeting at Rutgers December 10-12, 2015
• try the software https://github.com/sPHENIX-Collaboration
• see posters on tracking and calorimetry