

5th International workshop on heavy quark production in heavy-ion collisions



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Future of Heavy Quark Measurement at sPHENIX

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The PHENIX Collaboration is designing a new detector configuration (sPHENIX) to continue the studies of the recent discoveries at RHIC. The new detector will be based on a strong solenoid magnet with full azimuthal calorimetry and tracking coverage as well as displaced-vertex measurement capabilities. A new landmark of sQGP interaction, color screening and initial state effect studies can be explored at RHIC with measurements like heavy flavor tagged jets, hadron(gamma)-heavy flavor correlation and identification of different quarkonia states in p+p, p+A and A+A collisions. This presentation will detail the conceptual design, the staging and the physics which can be addressed in this concept.

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