

Abstract Submitted
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Jets as a probe of the QGP at RHIC energies DAVID MORRISON, Brookhaven National Laboratory, PHENIX COLLABORATION — Jets are an established probe of properties of the QGP created in heavy-ion collisions at the highest energies. With a suitable detector—such as the proposed sPHENIX upgrade—and with effective techniques for subtracting the underlying event and for unfolding the effects of smearing, one can use jet observables as powerful probes of the physics of the QGP in heavy-ion collisions at RHIC energies. Jet observables at RHIC and at the LHC provide the greatest information when seen as a part of a complementary and comprehensive set of measurements. We will discuss methods and techniques which will enable strong jet probe measurements in heavy-ion collisions at RHIC energies and their potential sensitivity to underlying QGP physics.

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