

HAW09-2009-000912

Abstract for an Invited Paper
for the HAW09 Meeting of
the American Physical Society

Photon and Dilepton Emission from the QGP at RHIC

CHARLES GALE, Department of Physics, McGill University

We present a review of the theory and of the interpretation of photon and dilepton data measured in relativistic nuclear collisions at RHIC. This includes photon and lepton pair spectra from a variety of emitted sources, a discussion of the photon nuclear modification factor, and photon-jet correlations. We show that a consistent treatment of photon emission must also include a theory of jet energy loss in the strongly interacting medium.