

DNP12-2012-020054

Abstract for an Invited Paper
for the DNP12 Meeting of
the American Physical Society

The Quark Gluon Plasma at LHC and RHIC: Does the energy scale make a difference?

MIKLOS GYULASSY, Columbia University

Recent data from RHIC and LHC on nuclear collisions have enlarged significantly the beam energy range $\sqrt{s} = 8 - 2760$ AGeV used to produce and diagnose the Quark Gluon Plasma phase of nuclear matter. The data reveal surprising similarities and differences between classes of observables probing a much wide range of energy and baryon densities than before. In this talk, I survey highlights of the latest data and contrast interpretations in terms dynamical models based on perturbative QCD and higher dimensional gravity dual AdS/CFT paradigms.