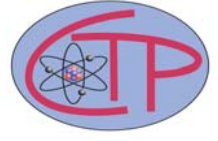




NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
Center for Theoretical Physics



Lessons from Holography: Gauge/Gravity Duality in a Nutshell

Presented by:

Sera Cremonini

University of Cambridge

Texas A&M University

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Namm, Room 823

Abstract

The past decade has seen the emergence of a holographic duality relating certain gravitational theories to quantum field theories. The duality has led to new insights into quantum gravity and most notably into the microscopic nature of black holes. It has also proven to be a useful tool for probing the dynamical behavior of field theories that are strongly coupled, with applications ranging from QCD to condensed matter systems. In this talk I will review some of these developments, and focus on recent progress in the context of applications to hydrodynamics.