



Physics Colloquium

Date: April 13, 2007 (Friday)

Time: 4 p.m.

Refreshments: 3:30 p.m. (210 Currens)

Room: 205 Currens Hall

COLOR GLASS CONDENSATE AND GLASMA

Speaker: Dr. Larry McLerran

Department of Physics, Brookhaven National Laboratory

Abstract

At the Relativistic Heavy Ion Collider at Brookhaven National Laboratory, collisions of nuclei produce matter at ultra-high energy density. The Color Glass Condensate and the Glasma are two forms of matter produced in such interactions. Such matter is associated with very strong coherent color electric and magnetic fields composed of the gluons of Quantum Chromodynamics, the theory of strong interactions. The properties of these fields may resolve the long standing problem of the high energy limit of strong interactions.

About the speaker: *Dr. Larry McLerran is a distinguished scientist and a theory group leader at the RIKEN BNL Research Center. Dr. McLerran is a Fellow of the American Physical Society and a Foreign Member of the Finnish Academy of Arts and Sciences.*

