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THE ADS/CFT CORRESPONDENCE AND QCD

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Abstract

The AdS/CFT correspondence or more generally the duality between quantum gauge theories and string theory on certain background geometries is one of the most important discoveries that stemmed from string theory in the last decades. After briefly explaining the correspondence, I will present a realistic gravitational model designed to capture the basic properties of QCD in the large color limit. I will explain the various model-independent features that we can learn from the correspondence about the ground state of QCD at high temperatures, namely the quark-gluon plasma.

Date: Friday, December 18, 2009

Time: 15:00

Place: IMBM Seminar Room, Boğaziçi University

This event is jointly organized with Feza Gürsey Institute.