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The AdS/CFT correspondence and non-perturbative QCD

Monday, 6 October 2008 11:30 (1:00)

Abstract content

In the first half of the lecture I will introduce some aspects of one of the most profound theoretical insights in modern physics: the AdS/CFT correspondence or Maldacena conjecture. I will illustrate its potential to shed light on a number of non-perturbative phenomena in non-Abelian gauge theories like QCD. I will then devote the second half of the lecture to present the extension of this framework to the finite temperature case, and end by briefly summarizing the striking applications of this scheme to unveil important features of the physics of the quark-gluon plasma that is being currently produced in relativistic heavy ion collisions.

Summary

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