SEMPARIS – Séminaires en région parisienne

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Seminar of the theory group of APC

Mardi 7 Novembre 2017, 14:00

APC, 483 A - Malevitch Domaines : hep-th

 ${\bf Titre}: An\ effective\ holographic\ approach\ to\ QCD$

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Résumé: In this seminar I will describe a holographic approach to QCD where conformal symmetry is broken explicitly in the UV by a relevant operator O. This operator maps to a five dimensional scalar field, the dilaton, with a massive term. Implementing also the IR constraint found by Gursoy, Kiritsis and Nitti, an approximate linear glueball spectrum is obtained which is consistent with lattice data. Finally, I will describe the evolution of the model parameters with the conformal dimension of O. This will suggest a map between the QCD anomaly and the trace anomaly of deformed Conformal Field Theories.