SEMPARIS – Séminaires en région parisienne

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Seminaire du LPTENS

Mercredi 21 Juin 2017, 15:00

LPTENS, Conference room 4

Domaines: hep-th

Titre: Factorization of IR Dynamics: Soft Black Hole Hair as Soft Wigs

Orateur : Massimo Porrati (New York University)

Résumé: Conserved charges associated with large gauge symmetries and Bondi-Metzer-Sachs symmetries of asymptotically Minkowski spacetime have been recently shown to give new "soft hair" for black holes —beyond mass, charge and angular momentum. In this talk, I will outline a study of the constraint on dynamics due to these new symmetries. I will prove that they only constrain long-time, infrared dynamics, in a way that is completely factorizable. Factorization implies in particular that soft hair does not constrain the "hard" physical processes that account for black hole microstates.