

Service de Physique Nucléaire



Séminaire

le vendredi 24 septembre 2010 à 11h

CEA Saclay, Orme des Merisiers, Bât. 703, Salle 135

Black holes in string theory

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String theory is a quantum theory of gravity, and has had several amazing successes in describing black holes. After discussing some paradoxes related to the physics of black holes, I will explain how to construct black holes in string theory, and how to count their entropy. I will then describe a new paradigm in the study of black holes that recent research appears to support : a black hole solution gives only a thermodynamic description of the physics, and the "microscopical" statistical description of the physics is given by a very large number of microstate geometries, that look the same as a black hole from far away, but do not have a horizon.

Le café sera servi 10 minutes avant

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http://irfu-i.cea.fr/Phocea/Vie_des_Labos/Seminaires/index.php