Seminar

Black hole Physics at large D

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The classical dynamics of black holes is governed by Einstein's equations of General Relativity. These highly nonlinear equations are difficult to solve in interesting contexts -e.g. black hole collisions - because the classical vacuum Einstein equations are free of parameters. In this talk we study classical black hole dynamics in D dimensions, and explain that the problem simplifies at large D, permitting us to use 1/D as an effective perturbative parameter. At large D we demonstrate that black hole dynamics can be reformulated as the dynamics of an effective soap bubble and determine the effective dynamical equations for this soap bubble.

Monday, Mar 7th 2016

4:00 PM (Tea/Coffee at 3:45 PM)

Seminar Hall, TCIS