LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

ARNOLD SOMMERFELD CENTER FOR THEORETICAL PHYSICS

Sommerfeld Theory Colloquium

Prof. Larus Thorlacius

NORDITA

The Black Hole Information Paradox

Hawking's information paradox arises when one considers the formation and subsequent evaporation of a black hole. It pits quantum mechanical unitarity against locality in spacetime and highlights the incompatibility between the world view offered by general relativity and that of quantum physics. In a gravity theory with a gauge theory dual, the information paradox must be resolved in favor of unitary evolution. The challenge is then to identify the non-local effects that implement unitarity on the gravity side.

Wednesday, 29th April 09, 10:30 h, Room 348 / 349, Theresienstr. 37 / III

Prof. V. Mukhanov