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EINLADUNG

im Rahmen des Seminars für Mathematische Physik

zum Vortrag

von

Avik Banerjee

(Saha Institut of Nuclear Physics, India)

über

„Strings, Branes, Schwarzian action and Maximal Chaos"

Abstract:

Large N CFTs with Einstein gravity dual are known to saturate the chaos bound, i.e, $\lambda=2\pi/(\beta)$. In my talk I shall discuss how maximal chaos occurs for a generic, probe quark-like defect degrees of freedom, for both scalar and vector operators, in a strongly coupled large N_C gauge theory. In holography, this corresponds to the dynamics of open string degrees of freedom, in the background of a closed string geometric background. The corresponding maximal chaos is governed by an intrinsic defect D-brane horizon. In this context, I shall show that a Schwarzian effective action emerges, in the infra-red, from an open string worldsheet, as well as a D1-brane worldvolume, embedded in AdS. I shall further elaborate on the connection between the emergence of Schwarzian effective action and the chaos bound saturation, which also happens to be the story for Jackiw- Teitelboim theory.

Zeit: Dienstag, 09.10.2018, **13:45**
Ort: Fakultät für Physik, Erwin-Schrödinger-Hörsaal,
        Boltzmanngasse 5, 5. Stock

gez.: S. Fredenhagen, D. Grumiller