Institut Henri Poincaré

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String Theory in Greater Paris

Rencontres Théoriciennes

“Supergravité, théorie des cordes et théorie M”

Jeudi 20 Décembre 2018, 11:40

Raoul Santachiara

LPTMS, Orsay

Subtle facets of Liouville field theories and their manifestations in statistical models

In this talk I will briefly review the conformal bootstrap approach in two dimensions. I will focus in particular on the Liouville field theory, that plays a major role among the solutions of the bootstrap equations. I will discuss some new insights of this conformal field theory, concerning in particular its extensions via the analytic continuation of the central charge and/or of the spectrum. I will mention recent applications of these results to critical percolation and to the log-Random Energy Models.

Institut Henri Poincaré, salle 314, 3ème étage