Institut Henri Poincaré

11 rue Pierre et Marie Curie, 75231 Paris cedex 05

String Theory in Greater Paris

Rencontres Théoriciennes

"Supergravité, théorie des cordes et théorie M"

Jeudi 23 Janvier 2020, 11:40

Slava Rychkov

ENS and IHES

Random Field Ising Model and Parisi-Sourlas Supersymmetry

We will discuss the phase transition in the Ising model with magnetic impurities. By one kind of lore, this leads to a non-unitary supersymmetric CFT with scalar supercharges (Parisi-Sourlas supersymmetry). By further lore, Parisi- Sourlas SCFT in D dimensions is equivalent to a non-SUSY CFT in D-2 dimensions. It is known that this story is not fully correct, but we will put at least some of it on firmer ground using non-perturbative CFT methods. Joint work with Apratim Kaviraj and Emilio Trevisani.

Institut Henri Poincaré, salle 314, 3ème étage

Retrouvez les activités de la communauté parisienne de théorie des cordes sur
`http ://string.lpthe.jussieu.fr`
La liste de tous les séminaires en région parisienne est disponible sur
`http ://string.lpthe.jussieu.fr/semparis`