Mathematics, Statistics, and Computer Science **@ UIC**

Combinatorics and Probability Seminar

Quenched complexity of saddles in the spherical p-spin model.

Antonio Auffinger (Northwestern)

Abstract: I will discuss the quenched complexity of saddles in the spherical p spin-glass model. Our main result confirms the almost surely existence of a layered structure of critical points of the energy landscape. I will then relate this computation to a detailed information about the landscape around the ground state energy and the structure of the Parisi measure at zero temperature.

Based on a joint work with Julian Gold (Northwestern University) and Yi Gu (Northwestern University).

Monday, October 21 at 3:00 PM in 612 SEO