Stanford University
Departments of Mathematics and Statistics

Probability Seminar

4:15pm, Monday, January 23, 2012
Sequoia Hall Room 200
Cookies served at 3:45pm, 1st Floor Lounge.

Speaker: Gregory Miermont, Université de Paris XI (Paris-Sud)

Title: The scaling limit of random plane quadrangulations

Abstract:
I will present recent progress on the convergence of rescaled large random quadrangulations, i.e., a large uniform gluing of squares forming a topological sphere, towards a continuum object called the Brownian map, which is a universal model for a continuum random surface. I will convey some of the main ideas of the proof, which requires a precise study of geodesics in large quadrangulations and in the limiting space, and in particular, of the locus where these geodesics tend to separate. If time allows I will also mention some questions concerning loop models on random quadrangulations.