

Lecturer: **Davar Khoshnevisan** (The University of Utah).

Title: Stochastic partial differential equations and intermittence

Abstract: The stochastic partial differential equations of these lectures are PDEs that are forced by an external random source. After we introduce what this means rigorously, we develop the basic background [existence and regularity of solutions], and then study some global properties of the solutions to families of physically-interesting stochastic PDEs. We put special emphasis on the so called "intermittency" properties of solutions, when those properties are present [and can be proved rigorously].