Stanford University
Departments of Mathematics and Statistics

PROBABILITY SEMINAR

4:15pm, Monday, May 12, 2014
Sequoia Hall Room 200
Cookies served at 3:45pm, 1st floor Lounge.

Speaker: Daniel Ahlberg
Instituto Nacional de Matemática Pura e Aplicada, Brazil

Title: A Hsu–Robbins–Erdös strong law in first-passage percolation

Abstract:

Large deviations in the context of first-passage percolation was first studied in the 1980s by Grimmett and Kesten. We will discuss a precise relation between the existence of moments of polynomial order and the decay of probability tails, and see how it may be used to strengthen the conclusion of the Shape Theorem. In contrast to its 1-dimensional counterpart — the Hsu–Robbins–Erdös Strong Law — this strengthening is obtained without imposing a higher order moment condition.