MIT DEPARTMENT OF MATHEMATICS

Yuval Peres
Microsoft Research

April 24·25·26
4:30–5:30pm

Lectures: Rm. 2-190

Reception: 4pm, Rm. 2-290

Surprises in Discrete Probability

Lecture 1
A fair partition of the sphere and overhanging blocks

Lecture 2
Strange geometry of high-dimensional spanning forests

Lecture 3
Mixing time in Ramanujan graphs and random graphs

SIMONS LECTURES IN MATHEMATICS 2017

Martin Hairer
University of Warwick

May 1·2·3
4:30–5:30pm

Lectures: Rm. 2-190

Reception: 4pm, Rm. 2-290

Singular Stochastic PDEs

Lecture 1
Bridging scales: from microscopic dynamics to macroscopic laws

Lecture 2
An analyst's incursion into quantum field theory

Lecture 3
Renormalization: a BPHZ theorem for stochastic PDEs

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