The Department of Mathematics presents

A COLLOQUIUM

Random Growth Models

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Thursday, February 8
Bond Hall 225
4:00 pm

We describe the probability for a certain class of random growth models that belong to the so-called Karda-Parisian-Zhang (KPZ) universality class. These growth models are distinguished by their random fluctuations in the "bulk." We will explore and describe these characteristic fluctuations in the talk. A full description of the KPZ universality class is still an active topic of research. The KPZ universality class originates from a stochastic partial differential equation introduced by a group of physicists in 1986. It wasn't until the last 25 years that the math theory began to make progress in the KPZ universality class by focusing on models with exact solutions. In the talk, we will focus on a model with an exact solution and describe the bulk fluctuations in that setting. The talk is aimed at a wide audience and no special background is necessary.

Everyone is welcome!

Refreshments will be served at 3:30pm in Bond Hall 300.