

Abstracts

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A Brief Introduction to Stochastic PDEs

In this short course we will give a semi-detailed foundation to the theory of SPDEs. This means it will be a mixture of physical ideas and the underlying mathematics, but more focus will be given on ideas and how to write it mathematically. Aimed towards solving the Kardar-Parisi-Zhang (KPZ) equation, we will focus on SPDEs of parabolic semi-linear type. If time permits, we will see a glimpse of the use of regularity structures.