
JEREMY QUASTEL, University of Toronto

Asymptotic fluctuations in the KPZ universality class

The one dimensional KPZ universality class comprises random growth models, free energies of directed random polymers, and forced Burgers equations. We describe the KPZ fixed point, the invariant Markov process which governs the asymptotic fluctuations of all models in the class, and how it was discovered through the exact solution of a special discretization of the Kardar-Parisi-Zhang equation known as TASEP. Joint work with Konstantin Matetski and Daniel Remenik.