

Rutgers University
Hill Center - Room 705

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The KPZ equation and its universality class: replica solutions

Abstract

In 1986 Kardar Parisi and Zhang proposed a stochastic PDE for interface motion. On the one-dimensional case (two-dimensional bulk and one-dimensional interface) there has been much activity recently. In my talk I provide some physical background and discuss replica solutions which are based on the Lieb Liniger delta-Bose gas with attractive interactions.