Seminar/Talk

Gaussian fluctuations for the open one-dimensional KPZ equation

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Host: Laszlo Erdös, Jan Maas

In this talk we consider the open one-dimensional KPZ equation on the interval $[0,L]$ with Neumann boundary conditions. For $L \sim t^{\alpha}$ and stationary initial conditions, we obtain matching upper and lower bounds on the variance of the height function for $\alpha \in [0,\frac23]$ for different choices of the boundary parameters. Additionally, for fixed L and an arbitrary probability measure as initial conditions, we show Gaussian fluctuations for the height function as $t\to \infty$. Joint work with Sayan Das and Antonios Zitridis.

Monday, March 24, 2025 03:45pm - 05:00pm
Central Bldg / O1 / Mondi 2a (I01.O1.008)

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