Towards a deterministic KPZ equation with fractional diffusion: The stationary problem*

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Abstract

The classical Kardar-Parisi-Zang model involves a nonlinearity depending on the modulus of the gradient, but the diffusion is typically local, the laplacian, porous media, etc.

The goal of the talk is to explore a direction in which the diffusion is a fractional Laplacian. The talk is mainly based in the paper:

References

[1] B. ABDELLAOUI, I. PERAL, *Towards a deterministic KPZ equation with fractional diffusion: The stationary problem.* Preprint. http://arxiv.org/abs/1609.04561

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