Seminar/Talk

(2+1)-dimensional growth process for discrete interfaces: stationary states, fluctuat

Fabio Toninelli
University Lyon

Host: Laszlo Erdös

This talk focuses on 2+1 dimensional interface growth models. I will talk about a Markov chain on lozenge tilings of the plane, introduced by A. Borodin and P. L. Ferrari [CMP 2014]. This can be viewed as a 2+1-dimensional stochastic growth process (the growing discrete interface being the height function associated to the tiling) or as a totally asymmetric interacting 2-d particle system. I will briefly recall some results from Borodin and Ferrari, and then present new results on stationary states, growth of fluctuations, connection with the "Anisotropic KPZ equation" and hydrodynamic limits.
This is based on arXiv:1503.05339 and on work in progress with M. Legras.
If time allows, I will present related results obtained in collaboration with A. Borodin and I. Corwin

Thursday, January 19, 2017 04:00pm - 06:00pm
Seminar room Big Ground floor / Office Bldg West (I21.EG.101)

This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.
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