

INHOMOGENEOUS RANDOM SYSTEMS

Systèmes Aléatoires Inhomogènes

January 27-28, 2015

Institut Henri Poincaré

11, rue Pierre et Marie Curie, Paris

<http://www.ihp.fr>

Tuesday, January 27th:

Random interface models.

Moderator: **Fabio Toninelli (Lyon)**.

- 9h15 – 9h40 : Opening
- 9h40 – 10h30 : **Fabio Toninelli (Lyon)**: *Introduction.*
- 10h30 – 11h20 : **Béatrice de Tilière (Paris)**: *Height representation of XOR-Ising loops via bipartite dimers.*
- 11h20 – 11h40 : Coffee Break
- 11h40 – 12h30 : **Ron Peled (Tel Aviv)**: *Delocalization of two-dimensional random surfaces with hard-core constraints.*
- 12h30 – 13h40 : Lunch
- 13h40 – 14h30 : **Fabio Martinelli (Roma)**: *Harmonic pinnacles in the discrete Gaussian model.*
- 14h30 – 15h20 : **Oren Louidor (Haifa)**: *The full extremal process of the Gaussian free field in 2D.*
- 15h20 – 15h40 : Coffee Break
- 15h40 – 16h30 : **Benoit Laslier (Cambridge)** : *The Glauber dynamics on lozenge tilings and other dimer models.*
- 16h30 – 17h20 : **Thierry Bodineau (Palaiseau)**: *Interface motion in disordered media.*

Wednesday, January 28th:

Random tilings and surfaces.

Moderator: **Jérémy Bouttier (Saclay)**.

- 9h40 – 10h30 : **Jérémy Bouttier (Saclay)**: *Introduction.*
- 10h30 – 11h20 : **Sylvie Corteel (Paris)**: *Dimers on Rail Yard Graphs.*
- 11h20 – 11h40 : Coffee Break
- 11h40 – 12h30 : **Alessandro Giuliani (Roma)**: *Height fluctuations in interacting dimers.*
- 12h30 – 14h00 : Lunch
- 14h00 – 14h50 : **Filippo Colomo (Firenze)**: *Arctic curves of the six-vertex model.*
- 14h50 – 15h40 : **Thomas Fernique (Villetaneuse)**: *From random to quasiperiodic tilings.*
- 15h40 – 16h00 : Coffee Break
- 16h00 – 16h50 : **Leonid Petrov (Charlottesville)**: *Dynamics of random surfaces and interacting particle systems via spectral properties.*
- 16h50 – 17h40 : **Patrik Ferrari (Bonn)**: *From a $2 + 1$ dimensional particle system to random tilings and random matrices.*

Informations and abstracts at: <http://irs.math.cnrs.fr>

Registration:

The conference is free and open to all.

To facilitate local organization, please register in advance by sending an e-mail with your name, affiliation and mail address to:

inter@math.cnrs.fr with subject: **IRS 2015**

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