

# 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 27<sup>th</sup>:

### **Random interface models.**

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

- 9h00 – 9h30 : Opening
- 9h30 – 10h20 : **Fabio Toninelli (Lyon)**: *Introduction.*
- 10h20 – 11h10 : **Béatrice de Tilière (Paris)**: *Height representation of XOR-Ising loops via bipartite dimers.*
- 11h10 – 11h30 : Coffee Break
- 11h30 – 12h20 : **Ron Peled (Tel Aviv)**: *Delocalization of two-dimensional random surfaces with hard-core constraints.*
- 12h20 – 13h50 : Lunch
- 13h50 – 14h40 : **Fabio Martinelli (Roma)**: *Harmonic pinnacles in the discrete Gaussian model.*
- 14h40 – 15h30 : **Oren Louidor (Haifa)**: *The full extremal process of the Gaussian free field in 2D.*
- 15h30 – 15h50 : Coffee Break
- 15h50 – 16h40 : **Benoit Laslier (Cambridge)** : *The Glauber dynamics on lozenge tilings and other dimer models.*
- 16h40 – 17h30 : **Thierry Bodineau (Palaiseau)**: *Interface motion in disordered media.*

Wednesday, January 28<sup>th</sup>:

### **Random tilings and surfaces.**

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

- 9h20 – 10h10 : **Jérémy Bouttier (Saclay)**: *Introduction.*
- 10h10 – 11h00 : **Sylvie Corteel (Paris)**: *Dimers on Rail Yard Graphs.*
- 11h00 – 11h20 : Coffee Break
- 11h20 – 12h10 : **Alessandro Giuliani (Roma)**: *Height fluctuations in interacting dimers.*
- 12h10 – 13h40 : Lunch
- 13h40 – 14h30 : **Filippo Colomo (Firenze)**: *Arctic curves of the six-vertex model.*
- 14h30 – 15h20 : **Thomas Fernique (Villetaneuse)**: *From random to quasiperiodic tilings.*
- 15h20 – 15h40 : Coffee Break
- 15h40 – 16h30 : **Leonid Petrov (Charlottesville)**: *Dynamics of random surfaces and interacting particle systems via spectral properties.*
- 16h30 – 17h20 : **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**

or mail to Ellen Saada, Laboratoire MAP5,

Université Paris Descartes, 45 Rue des Saints-Pères,

75270 Paris cedex 06, France.

Fax: +33 1 42 86 41 44

François Dunlop

Physique Théorique et Modélisation

Université de Cergy-Pontoise

(33)1 3425 7509

Thierry Gobron

Physique Théorique et Modélisation

Université de Cergy-Pontoise

(33)1 3425 7511

Ellen Saada

Mathématiques Appliquées

Université Paris Descartes

(33)1 8394 5876

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