«Combinatorics and Interactions»
Paris, January $\mathbf{9}^{\text {th }}-$ March $31^{\text {st }}, 2017$
Workshop on Large Random Structures in Two Dimensions
Paris, January $16^{\text {th }}-20^{\text {th }}, 2017$
Amphitheater Hermite


Organizers : Marie Albenque (LIX, École polytechnique) and Cédric Boutillier (LPMA, Université Pierre et Marie Curie)

## Invited speakers :

Louigi Addario-Berry (McGill University)
Omer Angel (University of British Columbia)
Jérémie Bouttier (CEA, ENS Lyon)
Timothy Budd (Niels Bohr Institute)
Alessandra Caraceni (University of Bath)
Guillaume Chapuy (IRIF Paris)
Mihai Ciucu (Indiana University)
Hugo Duminil-Copin (Geneva University)
Erik Duse (University of Helsinki)
Patrick Ferrari (Bonn University)
Adrien Kassel (ENS, Lyon)

Richard Kenyon (Brown University)
Benoît Laslier (Cambridge University)
Zhongyang Li (University of Connecticut)
Svante Linusson (KTH Stockholm)
Irène Marcovici (IECL Nancy)
Grégory Miermont (ENS Lyon)
Sevak Mkrtchyan (Rochester University)
Peter Nejjar (IST Austria)
Jonathan Novak (University of California)
Greta Panova (University of Pennsylvania)

## PROGRAM

## Monday January 16

| $09.30 \mathrm{am}-10.00 \mathrm{am}$ | Registration and welcome coffee - IHP ground floor |  |
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| $10.00 \mathrm{am}-10.50 \mathrm{am}$ | Grégory Miermont | On the geometry of random surfaces with a boundary. |
| $11.00 \mathrm{am}-11.50 \mathrm{am}$ | Alessandra Caraceni | Self-Avoiding Walks on Random Quadrangulations. |
| $11.50 \mathrm{am}-02.00 \mathrm{pm}$ | Lunch break - Free time |  |
| $02.00 \mathrm{pm}-02.50 \mathrm{pm}$ | Irène Marcovici | Does Eulerian percolation on the square lattice percolate? |
| $02.50 \mathrm{pm}-03.40 \mathrm{pm}$ | Benoît Laslier | Universality of height fluctuations in the dimer mode. |
| $03.40 \mathrm{pm}-04.10 \mathrm{pm}$ | Coffee break | IHP ground floor |
| $04.10 \mathrm{pm}-05.00 \mathrm{pm}$ | Svante Linusson | Reverse juggling. |

## Tuesday January $17^{\text {th }}$

| $09.30 \mathrm{am}-10.00 \mathrm{am}$ | Coffee break | IHP ground floor |
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| $10.00 \mathrm{am}-10.50 \mathrm{am}$ | Omer Angel | TBA. |
| $11.00 \mathrm{am}-11.50 \mathrm{am}$ | Guillaume Chapuy | Voronoï tessellations of Brownian maps, Painlevé-I recurrence, and bijections: an observation and a conjecture. |
| $11.50 \mathrm{am}-02.00 \mathrm{pm}$ | Lunch break - Free time |  |
| $02.00 \mathrm{pm}-02.50 \mathrm{pm}$ | Sevak Mkrtchyan | The GUE corners process for volume measures on lozenge tilings. |
| $02.50 \mathrm{pm}-03.40 \mathrm{pm}$ | Greta Panova | Lozenge tilings: from combinatorics, through algebra, to probability. |
| $03.40 \mathrm{pm}-04.10 \mathrm{pm}$ | Coffee break | IHP ground floor |
| $04.10 \mathrm{pm}-05.00 \mathrm{pm}$ | Jérémie Bouttier | The free boundary Schur process and applications. |
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## Wednesday January 18

| $09.30 \mathrm{am}-10.20 \mathrm{am}$ | Richard Kenyon | Linear spaces of tilings. |
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| $10.20 \mathrm{am}-10.50 \mathrm{am}$ | Coffee break | IHP ground floor |
| $10.50 \mathrm{am}-11.40 \mathrm{pm}$ | Mihai Ciucu | Lozenge tilings with gaps in a 90 degree wedge domain with mixed boundary conditions. |
| $11.40 \mathrm{am}-12.30 \mathrm{pm}$ | Jonathan Novak | Lozenge tilings, HCIZ integrals, and Hurwitz numbers. |

## Thursday January $1^{\text {th }}$

| $09.30 \mathrm{am}-10.00 \mathrm{am}$ | Coffee break | IHP ground floor |
| :--- | :--- | :--- |
| $10.00 \mathrm{am}-10.50 \mathrm{am}$ | Hugo Duminil-Copin | Order-disorder operators in the critical Ising model on planar and almost planar graphs. |
| $11.00 \mathrm{am}-11.50 \mathrm{am}$ | Timothy Budd | On a connection between planar map combinatorics and lattice walks. |
| $11.50 \mathrm{am}-02.00 \mathrm{pm}$ | Lunch break - Free time |  |
| $02.00 \mathrm{pm}-02.50 \mathrm{pm}$ | Patrick Ferrari | Anisotropic (2+1)-d growth and Gaussian limits of q-Whittaker processes. |
| $02.50 \mathrm{pm}-03.40 \mathrm{pm}$ | Erik Duse | The Cusp-Airy Process. |
| $0.40 \mathrm{pm}-04.10 \mathrm{pm}$ | Coffee break | IHP ground floor |
| $04.10 \mathrm{pm}-05.00 \mathrm{pm}$ | Zhongyang Li | Phase transitions in the 1-2 model. |

## Friday January 20

| $09.30 \mathrm{am}-10.20 \mathrm{am}$ | Adrien Kassel | Active spanning trees and Schramm--Loewner evolution. |
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| $10.20 \mathrm{am}-10.50 \mathrm{am}$ | Coffee break | IHP ground floor |
| $10.50 \mathrm{am}-11.40 \mathrm{am}$ | Peter Nejjar | Fluctuations of the Competition Interface in Presence of Shocks. |
| $11.40 \mathrm{am}-12.30 \mathrm{pm}$ | Louigi Addario-Berry | Random maps and random trees: limits, symmetries, and embeddings, |

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[^0]:    Abstracts are available on the website of the trimester « Combinatorics and Interactions »: http://combi17.math.cnrs.fr/?sec=workshopl

