

Centre de recherches mathématiques
Université de Montréal

Atelier «Systèmes stochastiques de particules en interaction»
Du 18 au 23 mai 2009

Workshop “Interacting stochastic particle systems”
May 18-23, 2009

HORAIRE / PROGRAM

Conférences : salle 6214
Pauses-café : salle 6245

Lectures: Room 6214
Coffee Breaks: Room 6245

Le lundi 18 mai 2009 / *Monday, May 18, 2009*

08:45 - 09:15 Café croissants (6245) / *Coffee & Croissants (6245)*

08:45 - 09:15 Inscription (5345) / *Registration (5345)*

09:15 - 10:00 **Kenneth Alexander** (University of Southern California)
“Polymer Depinning Transitions with Loop Exponent One”

10:00 - 10:30 Pause-café / *Coffee break*
(Salle / *Room* 6245)

10:30 - 11:15 **Amine Asselah** (Université Paris 12)
“Annealed Large Deviations for the Energy of a Polymer”

11:15 - 12:00 **Dmitry Ioffe** (Technion - Israel Institute of Technology)
“Stretched Polymers in Random Environment”

12:00 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:45 **Bálint Tóth** (Budapest University of Technology)
“Diffusivity bounds for some Durrett-Rogers polymer processes”

14:45 - 15:30 **Benedek Valkó** (University of Wisconsin-Madison)
“On the Superdiffusive Behavior of the True Self-avoiding Walk in $d = 2$ ”

15:30 Réception de bienvenue (6245) / *Welcoming Reception (6245)*

Le mardi 19 mai 2009 / *Tuesday, May 19, 2009*

08:45 - 09:15 Café croissants (6245) / *Coffee & Croissants (6245)*

09:15 - 10:00 **Gideon Amir** (University of Toronto)
“The Speed Process of the Totally Asymmetric Exclusion Process (TASEP)”

10:00 - 10:30 Pause-café / *Coffee break*
(Salle / Room 6245)

10:30 - 11:15 **Márton Balázs** (Budapest University of Technology and Economics)
“Second Class Particles Can Perform Random Walks (in Some Cases)”

11:15 - 12:00 **Ivan Corwin** (Courant Institute for Mathematical Sciences)
“Current Fluctuations for TASEP with Two-sided Densities”

12:00 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:45 **Sunder Sethuraman** (Iowa State University)
“Large Deviations for a Tagged Particle in One-dimensional Symmetric simple exclusion”

14:45 - 15:30 **Claudio Landim** (IMPA)
“Metastability of Reversible Condensed Zero Range Processes on a Finite Set”

15:30 - 16:00 Pause-café / *Coffee break*
(Salle / Room 6245)

16:00 - 16:45 **Stefan Grosskinsky** (University of Warwick)
“Zero-range condensation at criticality”

Le mercredi 20 mai 2009 / *Wednesday, May 20, 2009*

08:45 - 09:15 Café croissants (6245) / *Coffee & Croissants (6245)*

09:15 - 10:00 **Stefano Olla** (Université de Paris - Dauphine)
“Heat Transport from Microscopic Dynamics: A Weak Coupling Approach”

10:00 - 10:30 Pause-café / *Coffee break*
(Salle / Room 6245)

10:30 - 11:15 **Eric Cator** (Delft University of Technology)
“Busemann Functions and Equilibrium Measures in Last Passage Percolation”

11:15 - 12:00 **Jonathon Peterson** (University of Wisconsin-Madison)
“Current Fluctuations for a System of One-dimensional Random Walks in a Common Random Environment”

12:00 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:45 **Alejandro F. Ramirez** (Pontificia Universidad Católica de Chile)
“Ballisticity Conditions for Random Walk in Random Environment”

14:45 - 15:30 **Leonardo Rolla** (École Normale Supérieure)
“Phase Transition for Activated Random Walk Models”

15:30 - 16:00 Pause-café / *Coffee break*
(Salle / Room 6245)

16:00 - 16:30 **János Engländer** (University of California)
“An interacting branching model”

16:30 - 17:00 **Joel Lebowitz** (Rutgers University)
“Human Rights Session”

Le jeudi 21 mai 2009 / Thursday, May 21, 2009

08:45 - 09:15 Café croissants (6245) / *Coffee & Croissants (6245)*

09:15 - 10:00 **Cédric Bernardin** (ENS Lyon)
“Superdiffusivity for Asymmetric Energy Model in low dimension”

10:00 - 10:30 Pause-café / *Coffee break*
 (Salle / Room 6245)

10:30 - 11:15 **Ton Dieker** (Georgia Institute of Technology)
“Series Jackson Networks and Non-crossing Probabilities”

11:15 - 12:00 **Min Kang** (North Carolina State University)
“Study on a General AIMD Model of Transmission Control Protocol”

12:00 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:45 **Tobias Kuna** (University Reading)
“Realizability of Point Processes”

Session - Communications brèves / Contributed Talks

14:45 - 15:00 **Mohar Guha** (University of Michigan Ann Arbor)
“Bounds on Coarsening rates for the diffusive Lifschitz-Slyozov-Wagner Equation”

15:00 - 15:15 **Kay Kirkpatrick** (MIT)
“Quantum many-body systems and the nonlinear Schrödinger equation”

15:15 - 15:45 Pause-café (6245) / *Coffee break (6245)*

15:45 - 16:15 **Lorenzo Bertini** (Università degli Studi di Roma “La Sapienza”)
“Large deviations for the boundary driven weakly asymmetric exclusion process”

Le vendredi 22 mai 2009 / *Friday, May 22, 2009*

08:45 - 09:15 Café croissants (6245) / *Coffee & Croissants (6245)*

09:15 - 10:00 **Davide Gabrielli** (Universita dell'Aquila)
"The Non Equilibrium Thermodynamics of Piecewise Deterministic Markov Processes"

10:00 - 10:30 Pause-café / *Coffee break*
(Salle / *Room* 6245)

10:30 - 11:15 **Alessandro Giuliani** (Universita' di Roma Tre)
"Periodic Striped Minimizers in a 2D Model for Martensitic Phase Transitions"

11:15 - 12:00 **Ilie Grigorescu** (University of Miami)
"Particle Systems and a Class of Diffusions with Jumps"

12:00 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:45 **Vladislav Vysotsky** (University of Delaware)
"Mass Aggregation in the Stochastic Model of Sticky Particles"

14:45 - 15:30 **Aleksander Yu. Orlov** (Institute for Oceanology)
"Random processes and integrable systems"

15:30 Café, thé, biscuits (6245) / *Coffee, tea, cookies (6245)*