

Centre de recherches mathématiques
Université de Montréal

Atelier «Combinatoire, randomisation, algorithmes et probabilités»
Du 4 au 8 mai 2009

Workshop “Combinatorics, Randomization, Algorithms and Probability”
May 4-8, 2009

HORAIRE / *PROGRAM*

Conférences : salle 6214
Pauses-café et pauses-déjeuner : salle 6245

Lectures: Room 6214
Coffee Breaks & Lunch Breaks: Room 6245

Le lundi 4 mai 2009 / *Monday, May 4, 2009*

08:30 - 09:00 Café croissants (6245) / *Coffee & Croissants (6245)*

08:45 - 09:00 Inscription (5345) / *Registration (5345)*

09:00 - 09:05 Mots de bienvenue / *Welcoming addresses*

09:05 - 09:55 **Peter Winkler** (Dartmouth College)
“Coordinate Percolation”

09:55 - 10:30 Pause-café / *Coffee break*
 (Salle / *Room* 6245)

10:30 - 11:20 **Imre Leader** (University of Cambridge)
“Positive Projections”

11:30 - 12:20 **Tibor Szabó** (McGill University)
“Random graph intuition in positional games”

12:20 - 14:00 Pause-déjeuner (6245) / *Lunch break (6245)*

14:00 - 14:50 **Ravi Kannan** (Microsoft Research Labs.)
“A New Probability Inequality and Concentration Results”

14:50 - 15:30 Pause-café / *Coffee break*
 (Salle / *Room* 6245)

15:30 - 16:20 **Devdatt Dubhashi** (Göteborg University)
“Markov Chain Coupling for Stochastic Domination of Order Statistics”

16:30 - 17:20 **Michael Molloy** (University of Toronto)
“The Glauber Dynamics for Colourings of Bounded Degree Trees”

17:20 Cocktail de bienvenue (6245) / *Welcoming reception (6245)*

Le mardi 5 mai 2009 / *Tuesday, May 5, 2009*

08:30 - 09:00 Café croissants (6245) / *Coffee & Croissants (6245)*

09:00 - 09:50 **Van H. Vu** (Rutgers University)
“Random Matrices: A Survey”

09:50 - 10:30 Pause-café / *Coffee break*
 (Salle / Room 6245)

10:30 - 11:20 **Andrea Montanari** (Stanford University)
“Matrix Completion from Fewer Entries”

11:30 - 12:20 **Christina Goldschmidt** (University of Oxford)
“The Scaling Limit of Critical Random Graphs”

12:20 - 14:00 Pause-déjeuner (6245) / *Lunch break (6245)*

14:00 - 14:50 **Pablo Augusto Ferrari** (Universidad de Buenos Aires)
“Quasi stationary distributions and Fleming Viot processes”

14:50 - 15:30 Pause-café / *Coffee break*
 (Salle / Room 6245)

15:30 - 16:20 **Nathanaël Berestycki** (University of Cambridge)
“Mixing Times of Random Walks Based on Conjugacy Classes of the Symmetric group”

16:30 - 17:20 **Ralph Neininger** (Goethe University)
“Probabilistic Analysis of the FIND Algorithm”

Le mercredi 6 mai 2009 / *Wednesday, May 6, 2009*

08:30 - 09:00 Café croissants (6245) / *Coffee & Croissants (6245)*

09:00 - 09:50 **Jean-François Le Gall** (Université Paris-Sud Orsay)
“The Continuous Limit of Large Random Planar Map”

09:50 - 10:30 Pause-café / *Coffee break*
(Salle / *Room* 6245)

10:30 - 11:20 **Nicolas Broutin** (INRIA Rocquencourt)
“The Height of Unlabelled Trees”

11:30 - 12:20 **Jean-François Marckert** (Université Bordeaux 1)
“The CRT is the Scaling Limit of Unordered Binary Trees”

12:20 - 14:00 Pause-déjeuner (6245) / *Lunch break (6245)*

14:00 Après-midi libre / *Free afternoon*

Le jeudi 7 mai 2009 / *Thursday, May 7, 2009*

08:30 - 09:00 Café croissants (6245) / *Coffee & Croissants (6245)*

09:00 - 09:50 **Alan Frieze** (Carnegie Mellon University)
"Packing Hamilton Cycles into Eps-regular Graphs and Hypergraphs"

09:50 - 10:30 Pause-café / *Coffee break*
 (Salle / Room 6245)

10:30 - 11:20 **Benny Sudakov** (UCLA)
"Resilience of Random Graphs"

11:30 - 12:20 **Simon Griffiths** (Université de Montréal)
"The Unscaled Limit of Invasion Percolation"

12:20 - 14:00 Pause-déjeuner (6245) / *Lunch break (6245)*

14:00 - 14:50 **Peter Keevash** (Queen Mary, University of London)
"The Early Evolution of the H-free Process"

14:50 - 15:30 Pause-café / *Coffee break*
 (Salle / Room 6245)

15:30 - 16:20 **Dimitris Achlioptas** (University of California Santa Cruz)
"Algorithmic Phase Transitions in Constraint Satisfaction Problems"

16:30 - 17:20 **Po-Shen Loh** (Princeton University)
"Avoiding Small Subgraphs in Achlioptas Processes"

Le vendredi 8 mai 2009 / *Friday, May 8, 2009*

08:30 - 09:00 Café croissants (6245) / *Coffee & Croissants (6245)*

09:00 - 09:50 **Kevin Ford** (University of Illinois at Urbana-Champaign)
"Pratt Trees and a Random Fragmentation"

09:50 - 10:30 Pause-café / *Coffee break*
 (Salle / Room 6245)

10:30 - 11:20 **Johan Wästlund** (Chalmers University of Technology)
"Correlation Decay in Games and Optimization"

11:30 - 12:20 **Nikolaos Fountoulakis** (Max-Planck-Institut für Informatik)
"Broadcasting Problems in Graphs"

12:20 - 14:00 Pause-déjeuner (6245) / *Lunch break (6245)*

14:00 - 14:50 **Gábor Lugosi** (ICREA and Pompeu Fabra University)
"The Longest Minimum-weight Path in a Complete Graph"

14:50 - 15:30 Pause-café / *Coffee break*
 (Salle / Room 6245)

15:30 - 16:20 **Lea Popovic** (Concordia University)
"Scaling Limits for Random Trees in a Random Environment"

16:30 - 17:20 À venir / *TBA*