

HORAIRE / *PROGRAM*

ATELIER

MÉTHODES PROBABILISTES EN TOPOLOGIE

14 au 18 novembre 2016

WORKSHOP

PROBABILISTIC METHODS IN TOPOLOGY

November 14–18, 2016

CONFÉRENCES : salle 6254 (Pavillon André-Aisenstadt)

PAUSES-CAFÉ : salon Maurice-L'Abbé (salle 6245, Pavillon André-Aisenstadt)

LECTURES: *Room 6254 (Pavillon André-Aisenstadt)*

COFFEE BREAKS: *Salon Maurice-l'Abbé (Pavillon André-Aisenstadt)*

Le lundi 14 novembre 2016 / Monday, November 14, 2016

09:30–10:20 Inscription (salle 5345) et café-croissants (salle 6245)
Registration (Room 5345) and Coffee & Croissants (Room 6245)

10:20–10:30 Mot de bienvenue / *Opening Remarks*

10:30–11:20 Igor Rivin (University of St Andrews)
“Random curves, knots, and three-manifolds”

11:20–11:40 Pause-café / *Coffee break*

11:40–12:30 Tomasz Odrzygózd (Institute of Mathematics PAN)
“Survey on the square and hexagonal model for random groups”

12:30–14:30 Pause-déjeuner / *Lunch break*

14:30–15:20 Peter Bubenik (University of Florida)
“Probabilistic persistent homology”

15:20–16:00 Pause-café / *Coffee break*

16:00–17:00 Matthew Kahle (The Ohio State University)
“An invitation to stochastic topology”

Le mardi 15 novembre 2016 / Tuesday, November 15, 2016

09:00–09:30 Café croissants / *Coffee & Croissants*

09:30–10:20 Louigi Addario-Berry (McGill University)
“Probabilistic aspects of minimum spanning trees”

10:20–10:40 Pause-café / *Coffee break*

10:40–11:30 Ameer Abu-Fraiha (Technion - Israel Institute of Technology)
“Random simplicial complexes based on Steiner systems”

11:40–12:30 Omer Bobrowski (Technion-Israel Institute of Technology)
“Topology of random geometric complexes”

12:30–14:30 Pause-déjeuner / *Lunch break*

14:30–15:20 Jason Behrstock (Lehman College, CUNY)
“Random graphs and applications to Coxeter groups”

15:20–15:50 Pause-café / *Coffee break*

15:50–16:40 Giulio Tiozzo (University of Toronto)
“Counting loxodromics for hyperbolic actions”

Le mercredi 16 novembre 2016 / Wednesday, November 16, 2016

08:30–09:00 Café croissants / *Coffee & Croissants*

09:00–09:50 Chaim Even-Zohar (ICERM, Brown University)
“Random knots”

09:50–10:10 Pause-café / *Coffee break*

10:10–11:00 Joseph Maher (College of Staten Island, CUNY)
“Strata of random mapping class group elements”

11:10–12:00 Moira Chas (Stony Brook University)
“Computer driven questions, pre-theorems and theorems in geometry”

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

14:00–14:50 Sylwia Antoniuk (Adam Mickiewicz University)
“Random triangular groups – a threshold for collapsing”

15:00–15:50 Boris Lishak (Max-Planck-Institut für Mathematik)
“The space of triangulations of a compact 4-manifold”

15:50–16:20 Pause-café / *Coffee break*

16:20–17:20 Matthew Kahle (The Ohio State University)
“A brief survey of random finitely-presented groups”

Le jeudi 17 novembre 2016 / *Thursday, November 17, 2016*

08:30–09:00 Café croissants / *Coffee & Croissants*

09:00–09:50 Michael Farber (Queen Mary University of London)
“Topology of large random spaces”

09:50–10:20 Pause-café / *Coffee break*

10:20–11:10 Yuval Peled (The Hebrew University of Jerusalem)
“Random simplicial complexes - around the phase transition”

11:30–12:30 Mikhael Gromov (IHES (Bures-sur-Yvette, France))
“Can homology replace probability?”

12:30–14:30 Pause-déjeuner / *Lunch break*

14:30–15:20 Mark V. Sapir (Vanderbilt University)
“On random 1-related groups”

15:20–15:40 Pause-café / *Coffee break*

15:40–16:30 David Futer (Temple University)
“Generic quotients of cubulated hyperbolic groups”

16:40–17:30 John Mackay (University of Bristol)
“Random groups and actions on L^p spaces”

Le vendredi 18 novembre 2016 / *Friday, November 18, 2016*

08:40–09:10 Café croissants / *Coffee & Croissants*

09:10–10:00 Tomasz Luczak (Adam Mickiewicz University)
“Integral homology of random simplicial complexes”

10:00–10:20 Pause-café / *Coffee break*

10:20–11:10 Roman Glebov (Hebrew University)
“Virtually fibering random right-angled Coxeter groups”

11:30–12:30 Matthew Kahle (The Ohio State University)
“The bouquet-of-spheres conjecture”

12:30– Fin de l’atelier / *Closure of the workshop*