

« Random Walks and Asymptotic Geometry of Groups »
January 6th – April 4th, 2014

Conference

« Random walks on groups »

Paris, January 27th – 31st, 2014
Amphithéâtre Hermite

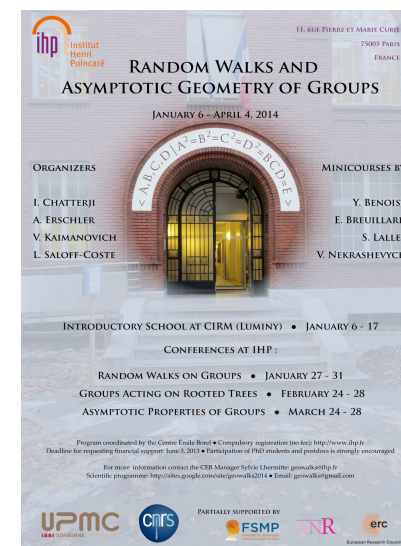
ORGANIZERS

Sara Brofferio (Paris Sud University, France)
Vadim Kaimanovich (Ottawa university, Canada)
Laurent Saloff-Coste (Cornell University, USA)

SPEAKERS

Fernando Alcalde (University of Santiago de Compostela, Spain)
Itai Benjamini (Weizmann Institute, Israël)
Nathanaël Berestycki (University of Cambridge, United Kingdom)
Lewis Bowen (University of Texas, USA)
Dariusz Buraczewski (University of Wroclaw, Poland)
Bertrand Deroin (ENS Paris, France)
Persi Diaconis (Stanford University, USA)
Alex Eskin (Chicago University, USA)
Agelos Georgakopoulos (University of Warwick, United Kingdom)
Sébastien Gouëzel (University of Rennes 1, France)
Yves Guivarc'h (University of Rennes 1, France)
Ori Gurel-Gurevich (University of British Columbia, Canada)
Yair Hartman (Weizmann Institute, Israel)

Anders Karlsson (Univ. of Geneva & Uppsala, Switzerland/Sweden)
Gady Kozma (Weizmann Institute, Israel)
Steven Lalley (Chicago University, USA)
François Ledrappier (University of Notre Dame, USA)
Joseph Maher (College of Staten Island, CUNY, USA)
Pierre Mathieu (University of Aix-Marseille, France)
Yuval Peres (Microsoft Research, USA)
Klaus Schmidt (University of Vienna, Austria)
Ryokichi Tanaka (Tohoku University, Japan)
Giulio Tiozzo (Harvard University, USA)
Bartosz Trojan (Wroclaw University, Poland)
Anatoly Vershik (St.Petersburg University, Russia)
Wolfgang Woess (TU Graz, Austria)



PROGRAM

Monday January 27th

09.30 am – 10.15 am	Registration and Welcome Coffee on Ground floor of IHP	
10.15 am – 11.00 am	Yuval Peres	The Poisson boundary of lamplighter groups.
11.15 am – 11.45 am	Ryokichi Tanaka	Discrete random walks on the group Sol.
12.00 pm – 12.30 pm	Bartosz Trojan	Heat kernel on affine buildings.
12.30 pm – 02.00 pm	<i>Lunch time</i>	
02.00 pm – 02.45 pm	Itai Benjamini	Invariant random structures.
02.45 pm – 03.15 pm	<i>Coffee break</i>	
03.15 pm – 04.00 pm	Bertrand Deroin	Random walks on left-orderable groups.
04.15 pm – 05.00 pm	Gady Kozma	Harmonic functions of minimal growth.

Tuesday January 28th

09.30 am – 10.15 am	Yves Guivarc'h	On the local limit theorem for random walks on motion groups.
10.30 am – 11.15 am	Anatoly Vershik	Filtrations associated with graphs and random walks.
11.15 am – 11.45 am	<i>Coffee break</i>	
11.45 am – 12.30 pm	Poster session	
12.30 pm – 02.00 pm	<i>Lunch time</i>	
02.00 pm – 02.45 pm	Pierre Mathieu	On the regularity of the rate of escape/entropy of random walks on (hyperbolic) groups.
02.45 pm – 03.15 pm	<i>Coffee break</i>	
03.15 pm – 04.00 pm	François Ledrappier	Regularity of the stochastic entropy under conformal changes.
04.15 pm – 05.00 pm	Nathanaël Berestycki	Ricci curvature and mixing times on the permutation group.

Wednesday January 29th

09.30 am – 10.15 am	Dariusz Buraczewski	On unbounded invariant measures of stochastic dynamical systems.
10.30 am – 11.15 am	Sébastien Gouëzel	Martin boundary for random walks with unbounded jumps on hyperbolic groups.

11.15 am – 11.45 am
11.45 am – 12.15 pm
12.30 pm – 01.00 pm

Coffee break
Yair Hartman
Fernando Alcalde

Ground floor of IHP
IRS rigidity in irreducible group actions.
Insertion-tolerance and local isomorphism property for random graphs.

Thursday January 30th

09.30 am – 10.15 am
10.30 am – 11.15 am
11.15 am – 11.45 am
11.45 am – 12.30 pm

Wolfgang Woess
Anders Karlsson
Coffee break
Persi Diaconis

Isotropic Markov processes on Ultra-metric spaces.
A multiplicative ergodic theorem for mapping classes.
Ground floor of IHP
From Finite to Infinite (and back).

12.30 pm – 02.00 pm

Lunch time

02.00 pm – 02.45pm
02.45 pm – 03.15 pm
03.15 pm – 04.00 pm
04.15 pm – 05.00 pm

Giulio Tiozzo
Coffee break
Joseph Maher
Steven Lalley

Geodesic tracking for random walks on groups and singularity of harmonic measure.
Ground floor of IHP
The Poisson boundary for acylindrically hyperbolic groups.
Recent Developments in Local Limit Theorems.

06.30 pm

Cocktail Dinner Party

On Ground floor of IHP

Friday January 31st

09.30 am – 10.15 am
10.30 am – 11.15 am
11.15 am – 11.45 am
11.45 am – 12.30 pm

Alex Eskin
Agelos Georgakopoulos
Coffee break
Ori Gurel-Gurevich

On the continuity of the Lyapunov spectrum for random products.
Discrete Riemann mapping and the Poisson boundary.
Ground floor of IHP
Recurrence of planar graph limits.

12.30 pm – 02.00 pm

Lunch time

02.00 pm – 02.45 pm
02.45 pm – 03.15 pm
03.15 pm – 04.00 pm

Klaus Schmidt
Coffee break
Lewis Bowen

Homoclinic points of certain algebraic group actions -- and their connections with random walks.
Ground floor of IHP
Random walks on coset spaces of random subgroups.