

INHOMOGENEOUS RANDOM SYSTEMS

Systèmes Aléatoires Inhomogènes

January, 24-25, 2012

Institut Henri Poincaré
11 rue Pierre et Marie Curie
Paris

Tuesday, January 24th :

Quasi-stationary distributions and Fleming Viot processes.

Moderator: **Pablo Ferrari** (Buenos Aires)

- 9h00 – 9h15 : Opening
- 9h15 - 9h35 : **Pablo Ferrari** (Buenos Aires): *Introduction.*
- 9h35 - 10h20 : **Ilie Grigorescu** (Miami): *Ergodic properties of some catalytic particle systems.*
- 10h20 – 10h40 : Coffee Break
- 10h40 – 11h25 : **Pablo Groisman** (Buenos Aires): *A Fleming-Viot process associated to sub-critical branching and a selection principle.*
- 11h25 – 12h10 : **Nathanaël Berestycki** (Cambridge): *Branching Brownian motion with absorption.*
- 12h10 – 13h55 : Lunch
- 13h55 – 14h40 : **Amine Asselah** (Créteil): *Quasi-stationary measures for asymmetric independent random walks.*
- 14h40 – 15h25 : **Alexandre Gaudillière** (Marseille): *Quasi-stationary measures and metastability.*
- 15h25 – 16h10 : **Denis Villemonais** (Palaiseau): *Approximation of Markov processes conditioned on non-absorption.*
- 16h10 – 16h30 : Coffee Break
- 16h30 – 17h15 : **Claude Le Bris** (Marne-la-Vallée): *Elements of mathematical formalization for some accelerated techniques in Molecular Dynamics.*
- 17h15 – 18h00 : **Julien Berestycki** (Paris): *The invariant point process at the tip of branching Brownian motion.*

Wednesday, January 25th :

Lifson-Poland-Scheraga models of DNA

Moderator: **Roberto Livi** (Firenze)

- 9h30 – 10h00 : **Roberto Livi** (Firenze): *Introduction.*
- 10h00 – 10h50 : **Hervé Kunz** (Lausanne): *Critical behaviour of a model of DNA melting and wetting in the absence or presence of disorder.*
- 10h50 – 11h10 : Coffee Break
- 11h10 – 12h00 : **David Mukamel** (Rehovot): *Denaturation of circular DNA.*
- 12h00 – 14h00 : Lunch
- 14h00 – 14h50 : **Giambattista Giacomin** (Paris): *Disorder and critical phenomena in pinning models.*
- 14h50 – 15h40 : **Julien Poisat** (Lyon): *Disordered pinning model with weak correlations.*
- 15h40 – 16h00 : Coffee Break
- 16h00 – 16h50 : **Marco Baiesi** (Padova): *Unwinding dynamics of double-stranded polymers.*
- 16h50 – 17h40 : **Yariv Kafri** (Haifa): *Dynamics of DNA melting.*

Informations and abstracts at : <http://www.u-cergy.fr/lptm/inter/>

François Dunlop
Physique Théorique et Modélisation
Université de Cergy-Pontoise
(33)1 3425 7509

Thierry Gobron
Physique Théorique et Modélisation
Université de Cergy-Pontoise
(33)1 3425 7511

Ellen Saada
Mathématiques appliquées
Université de Paris Descartes
(33)1 8394 5876