

INHOMOGENEOUS RANDOM SYSTEMS
Systèmes Aléatoires Inhomogènes



January 23-24, 2007
Amphi Hermite
Institut Henri Poincaré
11, rue Pierre et Marie Curie, Paris
<http://www.ihp.jussieu.fr>



Tuesday 23 January:
Stochastic models of selection and coalescence.
Moderator: **Bernard Derrida.**

- 8h45 – 9h00 : Opening
- 9h00 – 9h20 : **Bernard Derrida (Paris):** *Introduction.*
- 9h20 – 10h05 : **Carl Mueller (Rochester):** *The speed of a random traveling wave for the KPP equation.*
- 10h05 – 10h50 : **Eric Brunet (Paris):** *Effect of noise on front propagation.*
- 10h50 – 11h10 : Coffee Break
- 11h10 – 11h55 : **David A. Kessler (Ramat-Gan):** *Running for your life: Optimal Dispersal Rates.*
- 11h55 – 12h40 : **Feng Yu (Oxford):** *Limit to the rate of adaptation and overcoming Muller's Ratchet.*
- 12h40 – 14h15 : Lunch
- 14h15 – 15h00 : **Erwin Bolthausen (Zürich):** *On the Derrida-Ruelle cascades, and the ultrametricity issue in spin glass theory.*
- 15h00 – 15h45 : **Jean-François Le Gall (Paris):** *Branching processes and the Bolthausen-Sznitman coalescent.*
- 15h45 – 16h05 : Coffee Break
- 16h05 – 16h50 : **Esteban Moro (Madrid):** *Modeling and simulation of branching problems using continuum models.*
- 16h50 – 17h35 : **Stéphane Munier (Palaiseau):** *Effect of selection on ancestry.*

Wednesday 24 January:
Dynamics and statistics of non-equilibrium phenomena.
Moderator: **Claude-Alain Pillet.**

- 9h15 – 9h35 : **Claude-Alain Pillet (Toulon):** *Introduction.*
- 9h35 – 10h25 : **Martin Hairer (Warwick):** *Ergodic theory for a class of non-Markovian processes.*
- 10h25 – 10h45 : Coffee Break
- 10h45 – 11h35 : **Christian Maes (Leuven):** *Nonequilibrium fluctuations.*
- 11h35 – 12h25 : **Davide Gabrielli (L'Aquila):** *Current fluctuations in stochastic lattice gases.*
- 12h25 – 14h00 : Lunch
- 14h00 – 14h50 : **François Germinet (Cergy):** *Kubo Formula and random Schrödinger operators.*
- 14h50 – 15h40 : **François Castella (Rennes):** *Partial results on the derivation of the nonlinear quantum Boltzmann equations from large quantum systems of interacting particles.*
- 15h40 – 16h00 : Coffee Break
- 16h00 – 16h50 : **Wojciech De Roeck (Leuven):** *Quantum fluctuations: From Hamiltonian dynamics to unravelings of master equations.*
- 16h50 – 17h40 : **Laurent Bruneau (Cergy):** *Repeated interaction quantum systems.*

Registration:

The conference is free and open to all.

To facilitate local organization, please register in advance by sending an e-mail with your name, affiliation and mail address to:

inter@math.cnrs.fr with subject: **IRS 2007**

or mail to Ellen Saada, Laboratoire de Mathématiques Raphaël Salem,
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