

9th workshop on
Stochastic Analysis on
Large Scale Interacting
Systems

大規模相互作用系の
確率解析

13 September — 17 September, 2010
Lecture Hall,
Graduate School of Mathematical Sciences,
University of Tokyo

**9TH WORKSHOP ON
STOCHASTIC ANALYSIS ON LARGE SCALE INTERACTING SYSTEMS**

DATE : 13th September (Monday) — 17th September (Friday), 2010
PLACE : Lecture Hall, Graduate School of Mathematical Sciences, University of Tokyo
ORGANIZERS : Tadahisa FUNAKI (Univ. of Tokyo)
Hirofumi OSADA (Kyushu Univ.)
Yoshiki OTOBE (Shinshu Univ.)

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13th September (Monday)

9:00–10:00 (60) Reimbursement for foreign speakers

10:00–10:50 (50) Gregory F. LAWLER (University of Chicago)
Brownian intersection exponent in three dimensions

10:50–11:20 (30) Coffee and Reimbursement

11:20–12:10 (50) Claudio LANDIM (IMPA, Rio de Janeiro)
Nonequilibrium fluctuations for a tagged particle in one-dimensional zero-range processes

12:10–14:00 (110) Lunch and Reimbursement

14:00–14:50 (50) Bálint TÓTH (Budapest University of Technology)
Superdiffusive bounds on random walks and diffusions with long memory in the critical dimension

14:50–15:20 (30) Coffee

15:20–16:10 (50) Cédric BOUTILLIER (Paris 6)
Random Young diagrams in a rectangular box

16:20–16:50 (30) Makiko SASADA (University of Tokyo)
Scaling limits for evolutional models of two-dimensional Young diagrams

14th September (Tuesday)

9:30–10:20 (50) Thierry BODINEAU (École Normale Supérieure, Paris)
Finite size corrections for kinetically constrained models

10:30–11:20 (50) Jean-Dominique DEUSCHEL (TU Berlin)
Invariance principle for the random conductance model

11:20–11:40 (20) Coffee

- 11:40–12:30 (50)** Hideki TANEMURA (Chiba University)
Complex Brownian motion representation of the Dyson model
- 12:30–14:00 (90)** Lunch
- 14:00–14:50 (50)** József LÖRINCZI (Loughborough University)
On spectral properties of some non-local operators through stochastic methods
- 14:50–15:20 (30)** Coffee
- 15:20–16:10 (50)** Nicolas DIRR (University of Bath)
Large deviations on the macroscale for an interface in a 1-d Ising model with Kac interaction
- 16:20–16:50 (30)** Daisuke SHIRAISHI (Kyoto University)
Rigorous exponents for four dimensional random walk trace

15th September (Wednesday)

- 9:30–10:20 (50)** Thomas G. KURTZ (University of Wisconsin-Madison)
Prophetic construction of branching and related processes
- 10:30–11:20 (50)** Marek BISKUP (UCLA and University of South Bohemia)
Gibbs measures on permutations of the integers
- 11:20–11:40 (20)** Coffee
- 11:40–12:30 (50)** Jason P. MILLER (Stanford University)
CLE(4) and the Gaussian Free Field
- 12:30–14:00 (90)** Lunch
- 14:00–14:50 (50)** Boris ROZOVSKIĬ (Brown University)
Quantization of stochastic Navier-Stokes equation
- 14:50–15:20 (30)** Coffee
- 15:20–16:10 (50)** Benoît COLLINS (University of Ottawa and CNRS Lyon 1)
Eigenvalues of vectors in a random subspace
- 16:20–16:50 (30)** Makoto NAKASHIMA (Kyoto University)
Phase transition of measure for branching process in random environment

16th September (Thursday)

- 9:30–10:20 (50)** Jean-Claude ZAMBRINI (GFMUL, Lisbon)
Stochastic contact geometry and associated time reversible dynamics
- 10:30–11:20 (50)** Omer ANGEL (University of British Columbia)
Local time coalescing Brownian motions
- 11:20–11:40 (20)** Coffee
- 11:40–12:30 (50)** István GYÖNGY (University of Edinburgh)
On stochastic difference equations of parabolic type
- 12:30–14:00 (90)** Lunch
- 14:00–14:50 (50)** Yunshyong CHOW (Academia Sinica, Taipei)
Simulated annealing and evolutionary games

14:50–15:20 (30) Coffee

15:20–16:10 (50) Hubert LACOIN (Università degli studi Roma Tre)
Directed polymer on hierarchical lattices

16:20–16:50 (30) Yukio NAGAHATA (Osaka University)
Spectral gap for multi-species exclusion processes

17th September (Friday)

9:30–10:20 (50) Volker BETZ (University of Warwick)
Spatial random permutations and Bose-Einstein condensation

10:30–11:20 (50) Christophe SABOT (Université Lyon 1)
The environment viewed from the particle for certain random walks in random environment

11:30–12:20 (50) Vladas SIDORAVICIUS (CWI and IMPA, Rio de Janeiro)
Abundance of maximal paths

**NO FOODS OR DRINK (INCLUDING PET BOTTLES)
AT LECTURE HALL**