

International Conference “Random Processes, Conformal Field Theory and Integrable Systems”, 19-23 September 2011

Independent University of Moscow, Poncelet Laboratory

Monday 19th, 2011

9:00 – 9:45 Registration

9:45 – 10:00 Opening

10:00 – 11:00 **Juergen Reingruber** (ENS de Paris, France)

The dire strait time for the stochastic objects in very confined narrow domains

11:00 – 11:30 Coffee break

11:30 – 12:30 **Bertrand Eynard** (CEA, Saclay, France)

Matrix models and enumerative geometry

12:30 – 13:30 **Sergey Nechaev** (Paris-11, Orsay, France)

Topological correlations in dense trivial knots with relation to random hierarchical graphs

13:30 – 15:00 Lunch

15:00 – 16:00 **Vyacheslav Priezzhev** (Joint Institute for Nuclear Research, Dubna, Russia)

Return probability for the loop-erased random walk

16:00 – 16:30 Coffee break

16:30 – 17:15 **Andrea Zoia** (CEA, Saclay, France)

Residence time and collision number statistics: a Feynman-Kac approach

17:15 – 18:00 **Stéphane Ouvry** (Paris-11, Orsay, France)

Algebraic and arithmetic area for m planar Brownian paths

Tuesday 20th, 2011

- 10:00 – 11:00 **Gregory Schehr** (Paris-11, Orsay, France)
Extreme statistics of vicious walkers: from random matrices to Yang-Mills theory
- 11:00 – 11:30 Coffee break
- 11:30 – 12:30 **Vincent Pasquier** (CEA, Saclay, France)
Conformal blocks and quantum Hall effect
- 12:30 – 13:30 **Alexandre Gorskiy** (ITEP, Moscow, Russia)
Topological field theories and statistical models
- 13:30 – 15:00 Lunch
- 15:00 – 16:00 **Alexey Litvinov** (ITP, Moscow, Russia)
Benjamin-Ono integrable systems in 2D CFT
- 16:00 – 16:30 Coffee break
- 16:30 – 17:15 **Didina Serban** (CEA, Saclay, France)
Conformal blocks, duality and the Calogero-Sutherland model
- 17:15 – 18:00 **Andrei Bytsko** (Steklov Institute & Chebyshev Lab, St Petersburg, Russia)
Algebraic aspects of quantum integrable spin chains
- 18:00 – 18:45 **Anton Zabrodin** (ITEP, Moscow, Russia)
TBA
- 19:00 **Conference Dinner**

Wednesday 21st, 2011

- 10:00 – 11:00 **Satya Majumdar** (Paris-11, Orsay, France)
Convex Hulls of Planar Brownian Motions
- 11:00 – 11:30 Coffee break
- 11:30 – 12:30 **Alberto Rosso** (Paris-11, Orsay, France)
Anomalous Diffusion in Presence of Absorbing Boundaries
- 12:30 – 13:30 **Vlad Vysotsky** (Steklov Institute & Chebyshev Lab, St Petersburg, Russia)
Positivity of integrated random walks
- 13:30 – 15:00 Lunch

Free time

Thursday 22nd, 2011

10:00 – 11:00 **Bertrand Duplantier** (CEA, Saclay, France)

SLE, KPZ and Liouville Quantum Gravity

11:00 – 11:30 Coffee break

11:30 – 12:30 **Michel Zinsmeister** (University d'Orléans, France)

Bieberbach coefficients and Levy-Loewner processes

12:30 – 13:30 **Dmitri Belyaev** (Oxford, UK & Chebyshev Lab., St.Petersburg, Russia)

Two-point Schramm's formula and SLE-8/3 bubbles

13:30 – 15:00 Lunch

15:00 – 16:00 **Marco Picco** (Paris-6, Paris, France)

Critical interfaces in the 2d Ashkin-Teller model

16:00 – 16:30 Coffee break

16:30 – 17:15 **Dmitri Chelkak** (Steklov Institute & Chebyshev Lab, St Petersburg, Russia)

Conformal invariance in the critical Ising model: correlations and interfaces

17:15 – 18:00 **Konstantin Izuyurov** (University of Geneva, Switzerland &

Chebyshev Laboratory, St Petersburg, Russia)

SLE(3) and the Ising model in multiply-connected domains

Friday 23rd, 2011

10:00 – 11:00 **Rémi Rhodes** (University Paris-Dauphine, Paris, France)

Introduction to multiplicative chaos theory

11:00 – 11:45 **Andrey Sobolevskiy** (IITP, Moscow, Russia)

A random growth model in the perfect matching problem

11:45 – 12:15 Coffee break

12:15 – 13:15 **Michail Tamm** (Moscow State University, Russia)

*Narrow-escape times in microdomains with a particle-surface affinity
and overlap of Brownian trajectories*

13:15 – 14:00 **Binh-Thanh Nguyen** (Ecole Polytechnique, Palaiseau, France)

Weak localization of Laplacian eigenfunctions

14:00 – 14:10 Closing the conference

14:10 – 15:00 Lunch