

# Fourteenth Northeast Probability Seminar

Thursday and Friday November 19th and 20th, 2015

This conference is supported by the NSF

**Thursday, Nov. 19th**

**Room 912/914 of the Kimmel Center at NYU:**

Morning Session: Chair, S.R.Srinivasa Varadhan (Courant Institute)

9:00 — 10:00 am Registration, light refreshments

10:00 — 11:00 am **Jean-Francois Le Gall** (University Paris-Sud Orsay)

*"First-passage percolation on random planar graphs."*

11:00 — 11:30 pm break

11:30 — 12:30 pm **Mykhaylo Shkolnikov** (Princeton University)

*"Edge of beta ensembles and the stochastic Airy semigroup."*

12:30 — 2:15 pm Lunch break

Afternoon Session: Chair, Daniel Ocone (Rutgers)

2:15 — 3:15 pm 10-15 minute informal talks and discussion, including:

**Yu Gu** (Stanford) *Scaling limits in stochastic homogenization*

**Qi Feng** (Purdue) *Log-Sobolev inequalities on the horizontal path space  
of a totally geodesic foliation*

**Konstantin Matveev** (Harvard) *q-randomized RSK's and random polymers*

**Fan Ny Shum** (UConn) *Stabilization by noise of a  $C^2$ -valued coupled system*

3:15 — 3:30 pm break

3:30 — 4:30 pm 10-15 minute informal talks and discussion, including:

**Andrey Sarantsev** (UC Santa Barbara) *Infinite systems of competing Brownian particles*

**Jiange Li** (Delaware) *Optimal concentration of information content  
under convex measures*

**Reza Gheissari** (NYU) *Conformal invariance and lattice fields of the Ising model*

**Eyal Neuman** (Rochester) *Discrete SIR Epidemic Processes and their Relation  
to Extreme Values of Branching Random Walk*

4:45 — 5:45 **Conference Reception**

Courant Institute, 13th Floor Lounge

6:00 **Conference Dinner**

Mocha Burger

496 Laguardia Place, (between Houston and Bleeker)

**Friday, Nov. 20th**  
**Room 109 of the Courant Institute, NYU:**

Morning Session: Chair, Ivan Corwin (Columbia University)

9:00 — 9:30 am Registration, light refreshments

9:30 — 10:30 am **Francis Comets** (Université Paris Diderot)

*"Localization in one-dimensional log-gamma polymers"*

10:30 — 11:00 am break

11:00 — 12:00 **Jian Ding** (University of Chicago)

*"Some geometric aspects for two-dimensional Gaussian free fields."*

12:00 — 1:45 pm Lunch break

Afternoon Session: Chair, Louis-Pierre Arguin (CUNY),

1:45 — 2:45 pm 10-15 minute informal talks and discussion, including:

**Insuk Seo** (NYU) *Large Deviation Principle for Interacting Brownian Motions*

**Joe P. Chen** (UConn) *Current large deviations in the boundary-driven*

*symmetric simple exclusion process on the Sierpinski gasket*

**Mickey Salins** (Boston University) *The Smoluchowski-Kramers approximation*

*and large deviations for the stochastic wave equation*

**Aukosh Jagannath** (NYU) *The Parisi variational problem*

*for mixed p-spin glasses*

2:45 — 3:00 pm break

3:00 — 4:00 pm 10-15 minute informal talks and discussion, including:

**Moumanti Poder** (NYU) *Probability of any given neighbourhood of the root,*

*conditioned on the tree being infinite*

**Kei Kobayashi** (UT Knoxville) *Numerical approximation of stochastic differential*

*equations driven by a time-changed Brownian motion*

**Hugo Panzo** (UConn) *A two-parameter scaled Brownian penalization*

**Zsolt Pajor Gyulai** (NYU) *Dynamical systems perturbed by a diffusion*

*driven by a null-recurrent fast motion.*