

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-François Le Gall** (University Paris-Sud Orsay)

"First-passage percolation on random planar graphs."

11:00 — 11:30 pm break

The talk of Sandrine Péché has been cancelled

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 — 5:45pm **Conference Reception**

Courant Institute, 13th Floor Lounge

6:00pm **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.