

BMS Summer School 2011
Random Motions and Random Graphs
Week Two
 (22 September)

	Tuesday, Oct. 04	Wednesday, Oct. 05	Thursday, Oct. 06	Friday, Oct. 07
09:30–11:00	van der Hofstad	Chauvin	van der Hofstad	Chauvin
	c o f f e e b r e a k			
11:30–13:00	Chauvin	van der Hofstad	Chauvin	van der Hofstad
	l u n c h b r e a k			
14:30–16:00	Fitzner	Mailler	Fitzner	Mailler
	c o f f e e b r e a k			
16:30–17:30	Rœlly	König	Kupper	Djurdjevac Weller Benard
17:30–18:30	Hein Bartsch/M. Koch- ler Ruszel	Munsonius Lenz Marko	Temmel Torres Kiss	Imran Khosla Mönch

**All talks take place in Lecture Hall MA041 (Math Building) on Tuesday till Thursday,
and in Lecture Hall H0110 (Main Building) on Friday.**

Lectures and exercises

Brigitte Chauvin and Cécile Mailler:

Random trees for analysis of algorithms

Remco van der Hofstad and Robert Fitzner:

Stochastic processes on random graphs: routing and attack vulnerability

Survey Talks

Sylvie Roelly (Universität Potsdam):

Characterization of some processes (Wiener, Poisson, Gibbs,...) by duality formulae

Wolfgang König (Weierstraß-Institut and Technische Universität Berlin):

Connectivity problems in telecommunication

Michael Kupper (Humboldt Universität Berlin):

Minimal Supersolutions of BSDEs

Contributed Talks

Hein:

Ergodicity of the two-dimensional Navier-Stokes equations with Lévy forcing

Bartsch/M. Kochler:

Survival and growth of a branching random walk in random environment

Ruszel:

Sandpile models on random graphs

Munsonius:

Recurrences of random variables arising in random trees or recursive algorithms

Lenz:

Network reliability, combinatorics, and some inequalities

Marko:

Invariant allocations to Poisson points

Temmel:

k -independent percolation on trees

Torres:

Gap-alignment model for random sequences

Kiss:

A percolation process on the binary tree where large finite clusters are frozen

Djurdjevac:

Multiscale random walks on modular networks

Weller:

Random planar graph processes

Benard:

A comprehensive study of macroscopic structures of a random graph and its formation process using tools of stochastic processes

Imran:

Metric dimension and R -sets of connected graphs

Khosla:

Orientability of random hypergraphs

Mönch:

Average distances in preferential attachment models