

Prof. Dr. A. Eberle
Seminar Stochastic Analysis WS 07/08

A - Stochastic Dynamics on \mathbb{R}^n

- A1 The Gibbs sampler - Barbara Keller
- A2 Harris recurrence and drift conditions - Stefan Lehner
- A3 CLT for Markov chains - Anja Hesse
- A4 Diffusion approximation and optimal scaling of MCMC - Lena Bundil
- A5 Estimating the volume of convex bodies I - Harald Grohganz
- A6 Estimating the volume of convex bodies II - Markus Burkow

B - Random fields and their dynamics

- B1 The Ising model - Jinhua Tang
- B2 Gibbs sampler / Glauber dynamics on the Ising model - Lena Wollschläger
- B3 Gaussian fields on a lattice - Tobias Polley
- B4 The Gaussian free field

C - Log-Sobolev inequalities and interacting particle systems

- C1 Gaussian LSI and hypercontractivity - Hanna Sdunzik
- C2 Bakry-Emery criterion
- C3 Euler approximation of SDE - Linda Schilling
- C4 McKean-Vlasov Limit and propagation of chaos - Carola Gerwig
- C5 Sequential Monte Carlo Methods - Maximilian Wessel
- C6 CLT for interacting particle systems