

Hypocoercivity Workshop

Heilbronn Seminar room G.07

University of Bristol, Fry Building, 3-4th March 2020

Tuesday 3rd March:

8:30 - 9:00 - Registration

9:00 - 9:50 - Anton Arnold

Short- and long-time behavior in (hypo)coercive ODE-systems and Fokker-Planck equations

10:00 - 10:50 - Andreas Eberle (I)

Couplings and convergence rates for Markov processes with degenerate noise

10:50 - 11:30 - Break

11:30 - 12:20 - Andreas Eberle (II)

Couplings and convergence rates for Markov processes with degenerate noise

Lunch

14:00 - 14:50 - Pierre Monmarché

A link between the Dolbeault-Mouhot-Schmeiser and Foster-Lyapunov/Meyn-Tweedie methods

15:00 - 15:50 - Angeliki Menegaki

Quantitative rates of convergence to non-equilibrium steady states for the chain of oscillators

15:50 - 16:10 - Break

16:10 - 17:00 - Daniel Paulin

Randomized Hamiltonian Monte Carlo as Scaling Limit of the Bouncy Particle Sampler and Dimension-Free Convergence Rates.

Wednesday 4th March:

8:30 - 9:20 - Emeric Bouin (I)

Hypocoercivity by a beginner in analysis

9:30 - 10:20 - Emeric Bouin (II)

Hypocoercivity by a beginner in analysis

10:20 - 11:00 - Break

11:00 - 11:50 - Martin Grothaus

Weak Poincaré inequalities for convergence rate of degenerate diffusion processes

12:00 - 12:50 - Gabriel Stoltz

Hypocoercivity with Schur complements

12:50 - End of Workshop