

Workshop
“Qualitative behaviour of kinetic equations and related problems:
numerical and theoretical aspects”

June 3-7, 2019

organized by
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• Monday, June 3

10:30 - 11:00	Self registration and coffee break
11:00 - 11:50	Emeric Bouin <i>Hypocoercivity for linear kinetic equations in fractional regimes</i>
11:50 - 14:20	<i>Lunch break</i>
14:20 - 15:10	Miguel Rodrigues <i>Large-magnetic field regimes and asymptotic preserving schemes</i>
15:10 - 16:00	Anais Crestetto <i>Micro-macro discretizations for collisional kinetic equations of Boltzmann-BGK type in the diffusive scaling</i>
16:00 - 16:30	<i>Coffee and cake</i>
16:30 - 18:00	Lecture HIM: Herbert Spohn <i>Kinetic limit for classical particle and waves</i>
<i>afterwards</i>	<i>Reception</i>

• Tuesday, June 4

09:40 - 10:30	Helge Dietert <i>Trend to equilibrium for a spatially degenerate kinetic Fokker-Planck equation</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:50	Ludovic Cesbron <i>A fractional Fick Law method for diffusion limits of kinetic equations</i>
11:50 - 12:40	Laurent Laffèche <i>Fractional Hypocoercivity</i>
12:40 - 14:20	<i>Lunch break</i>
14:20 - 15:10	Leo Vivion <i>Landau damping in dynamical Lorentz gases</i>

15:10 - 16:00	Pierre Monmarché <i>Bouncing with velocity jump process</i>
16:00 - 16:30	<i>Coffee and cake</i>
16:30 - 17:20	Megan Griffin-Pickering <i>A particle approximation for the kinetic incompressible Euler equation</i>

• **Wednesday, June 5**

09:40 - 10:30	Arnaud Münch <i>Asymptotic and null controllability of an advection-diffusion equation</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:50	Karel Pravda-Starov <i>Sufficient geometric conditions for the null-controllability of evolution equations enjoying Gelfand-Shilov smoothing properties</i>
11:50 - 12:40	Ning Jiang <i>From Vlasov-Maxwell-Boltzmann system to two-fluid incompressible Navier-Stokes-Fourier-Maxwell system with Ohm's law</i>
afterwards	<i>Lunch break and free afternoon</i>

• **Thursday, June 6**

09:40 - 10:30	Carlos Castro <i>Numerical approximation of the decay rate for some dissipative systems</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:50	Marianne Bessemoulin-Chatard <i>Hypo-coercivity and diffusion limit of a finite volume scheme for linear kinetic equations</i>
11:50 - 12:40	Havva Yoldaş <i>Harris's Theorem and its applications to some kinetic and biological models for long-time behaviour of solutions</i>
12:40 - 14:20	<i>Lunch break</i>
14:20 - 15:10	Jessica Guérand <i>Quantitative regularity for parabolic De Giorgi classes</i>
15:10 - 16:00	Donghyun Lee <i>Vlasov-Poisson-Boltzmann equation in bounded domains</i>
16:00 - 16:30	<i>Coffee and cake</i>

• **Friday, June 7**

09:40 - 10:30	Francesco Salvarani <i>On the homogenization problem for the linear Boltzmann equation</i>
10:30 - 11:00	<i>Coffee break</i>

11:00 - 11:50	Maxime Breden <i>On the equilibria of Boltzmann-like kinetic equations</i>
11:50 - 12:40	Frédéric Hérau <i>A Korn-Wirtinger inequality</i>

All talks take place at HIM lecture hall, Poppelsdorfer Allee 45, Bonn.