Workshop on
"Effective equations: frontiers in classical and quantum systems"

June 24-28, 2019

organized by

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- **Monday, June 24**

10:30 - 11:00	**Self registration and coffee break**
11:00 - 12:00	**Alexander Bobylev** *On some properties of Vlasov-Poisson-Landau kinetic equations*
12:00 - 14:00	*Lunch break*
14:00 - 15:00	**Françis Filbet** *Asymptotics of the three dimensional Vlasov equation in the large magnetic field limit*
15:00 - 16:00	**Laurent Desvillettes** *From Boltzmann equations for mixtures towards thin spray equations*
16:00 - 16:30	*Coffee and cake*
16:30 - 17:30	**Richard Höfer** *On the sedimentation of particle suspensions in Stokes flows*
afterwards	*Reception*

- **Tuesday, June 25**

09:30 - 10:30	**Jens Marklof** *Kinetic transport in the Lorentz gas: classical and quantum*
10:30 - 11:00	*Group photo and coffee break*
11:00 - 12:00	**Peter Pickl** *Derivation of the Vlasov equation*
12:00 - 14:00	*Lunch break*
14:00 - 15:00	**Nataša Pavlović** *From a classical system of particles to a ternary Boltzmann equation*
15:00 - 16:00	**Miguel Escobedo** *Some remarks on the three waves collision integral+condensate*
16:00 - 16:30	*Coffee and cake*

- **Wednesday, June 26**

09:30 - 10:30	**François Golse** *Time-Splitting Algorithms for Quantum Dynamics in the Semiclassical Regime*
10:30 - 11:00	*Coffee break*
11:00 - 12:00	**Eric Carlen** *A Kac Type Master Equation with Exclusion*
12:00 - 14:00	*Lunch break*
14:00 - 15:00	**Benjamin Schlein** *Excitation spectrum and time-evolution of Bose-Einstein condensates*
15:00 - 16:00	**Irene Gamba** *The Cauchy problem and BEC stability for the quantum Boltzmann-Condensation System at very low temperature*
16:00 - 16:30	*Coffee and cake*

- **Thursday, June 27**

09:30 - 10:30	**Robert Strain** *Global mild solutions of the Landau and non-cutoff Boltzmann equation*
10:30 - 11:00	*Coffee break*
11:00 - 12:00	**Maria C. Carvalho** *Spectral Gaps and Entropy Production for Kinetic Master Equations with Degenerate Jump Rates*
12:00 - 14:00	*Lunch break*
14:00 - 15:00	**Mario Pulvirenti** *Propagation of chaos for exotic interactions*
15:00 - 16:00	**Robert Patterson** *Interaction Clusters for the Kac Process*
16:00 - 16:30	*Coffee and cake*

- **Friday, June 28**

09:30 - 10:30	**Marcello Porta** *On the correlation energy of interacting fermionic systems in the mean-field regim*
10:30 - 11:00	*Coffee break*
11:00 - 12:00	**Herbert Spohn** *Hydrodynamics of the classical Toda chain*
12:00 - 14:00	*Conclusions and lunch break*

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