

# SFB 1027-Workshop: Stochastic processes in non-equilibrium and biological systems

This informal workshop brings together people working on stochastic transport models. The workshop's focus is on collective effects and non-Markovian particle dynamics.

The talks are given at the lecture hall of the new graduate centre (former Jägerheim), which will also be used in order to accommodate the speakers during the workshop.

## Schedule of the talks:

*Tuesday, 16th June 2015*

- 10.00 - 11.00 Stefan Grosskinsky  
Dynamics of non-Markovian exclusion processes
- 11.00 - 12.00 Cécile Appert-Rolland  
Exact domain wall theory for deterministic TASEP with parallel update

*Wednesday, 17th June 2015*

- 10.00 - 11.00 Grégory Schehr  
Universal record statistics of random walks
- 11.00 - 12.00 Massimo Cavallaro  
Temporally correlated zero-range process with open boundaries: steady state and fluctuations
- 14.00 - 15.00 Sarah Klein  
Stochastic modeling of bidirectional cargo transport

*Thursday, 18th June 2015*

- 10.00 - 11.00 Chikashi Arita  
Exclusion processes with varying system length:  
Modeling queues and microtubules
- 11.00 - 12.00 Mohammed Reza Shaebani  
Transport in Complex Dendrites: Geometrical Considerations
- 14.00 - 15.00 Rosemary Harris  
Fluctuations in stochastic systems with memory