



Funded by **DFG**

CRC 1114 School 2019: Fluctuating Hydrodynamics

Date: 28 October – 1 November 2019

Venue: Zuse Institute Berlin (ZIB), Takustr. 7, 14195 Berlin

Invited speakers:

John Bell, Berkeley Lab

Bruce Turkington, University of Massachusetts

CRC 1114 speakers:

Carsten Hartmann, BTU Cottbus

Felix Höfling, FU Berlin

Robert Patterson, WIAS

Program committee:

Rupert Klein, FU Berlin

Ralf Kornhuber, FU Berlin

Robert Patterson, WIAS

Stefanie Winkelmann, ZIB

Organisation:

Nina Fabjančič, FU Berlin

More information about the CRC 1114:

<https://sfb1114.imp.fu-berlin.de/>

Schedule

If not indicated otherwise, the sessions take place in the ZIB seminar room (see map).

Monday 28 October 2019

Mathematical and physical foundations

08.45-09.15	Registration
09.15-09.30	Welcome address
09.30-11.00	Robert Patterson: Stochastic processes
11.00-11.30	Coffee break
11.30-13.00	Carsten Hartmann: Hamiltonian systems and statistical mechanics
13.00-14.30	Lunch break
14.30-16.00	Carsten Hartmann: Langevin equations
16.00-16.15	Coffee break
16.15-17.15	Rupert Klein, Ralf Kornhuber, Robert Patterson, Stefanie Winkelmann: The role of fluctuating hydrodynamics in the CRC 1114
17.15-18.30	Get-together with finger food and drinks at ZIB

Tuesday 29 October 2019

Mini courses

09.30-11.00	Felix Höfling: Projection operator techniques, lecture 1
11.00-11.30	Coffee break
11.30-13.00	John Bell: Numerical methods for fluctuating hydrodynamics, lecture 1: Basic concepts of fluctuating hydrodynamics
13.00-14.30	Lunch break
14.30-16.30	John Bell, Katherine Klymko and Daniel Ladiges: Numerical methods for fluctuating hydrodynamics, exercise (Arnimallee 6, room 017)

Wednesday 30 October 2019

Mini courses

09.30-11.00	Felix Höfling: Projection operator techniques, lecture 2
11.00-11.30	Coffee break
11.30-13.00	John Bell: Numerical methods for fluctuating hydrodynamics, lecture 2: Advanced models and discretizations in fluctuating hydrodynamics
13.00-14.30	Lunch break
14.30-16.00	Bruce Turkington: Model reduction and coarse-graining from a nonequilibrium statistical mechanics perspective, lecture 1
16.00	Drinks at Luise Dahlem

Thursday 31 October 2019

Mini courses and CRC colloquium

09.30-11.00	Felix Höfling: Projection operator techniques, exercise
11.00-11.30	<i>Coffee break</i>
11.30-13.00	Bruce Turkington: Model reduction and coarse-graining from a nonequilibrium statistical mechanics perspective, lecture 2
13.00-14.00	<i>Lunch break</i>
14.00-15.30	Bruce Turkington: Model reduction and coarse-graining from a nonequilibrium statistical mechanics perspective, exercise
15.30-16.00	<i>Coffee break</i>
16.00-17.30	John Bell: Modeling Electrolytes at the Mesoscale, CRC colloquium talk (ZIB lecture hall)

Friday 1 November 2019

Mini courses and wrap-up

09.30-11.00	Bruce Turkington: Model reduction and coarse-graining from a nonequilibrium statistical mechanics perspective, lecture 3
11.00-11.30	<i>Coffee break</i>
11.30-13.00	Rupert Klein, Ralf Kornhuber, Robert Patterson, Stefanie Winkelmann: Wrap-up



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Fall School program venues:

- ZIB seminar room and lecture hall, Takustr. 7
- Institute of Mathematics, computer room 017, Arnimallee 6
- Luise Dahlem, Königin-Luise-Straße 40-42

Suggested cafeteria for lunch breaks:

- Eßkultur im Ethnologischen Museum, Takustr. 38-40

Further cafeterias, restaurants and cafés in the area:

https://conference.imp.fu-berlin.de/sfb1114-sccs-2017/venue/venue_food