

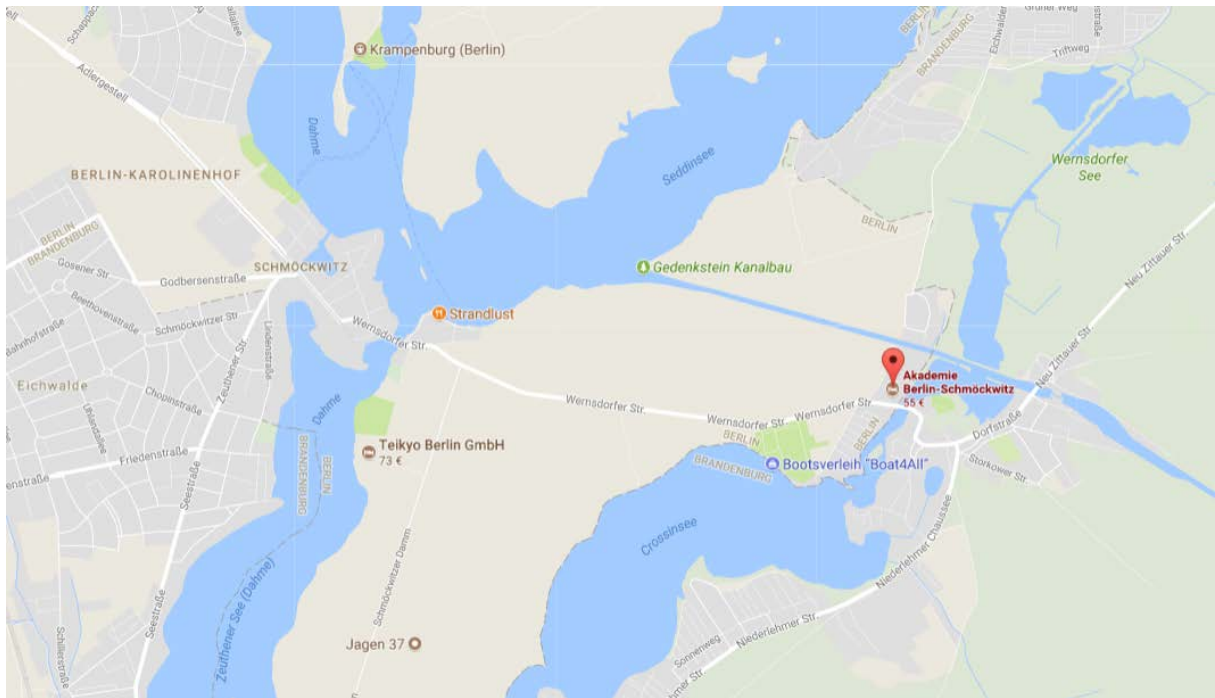
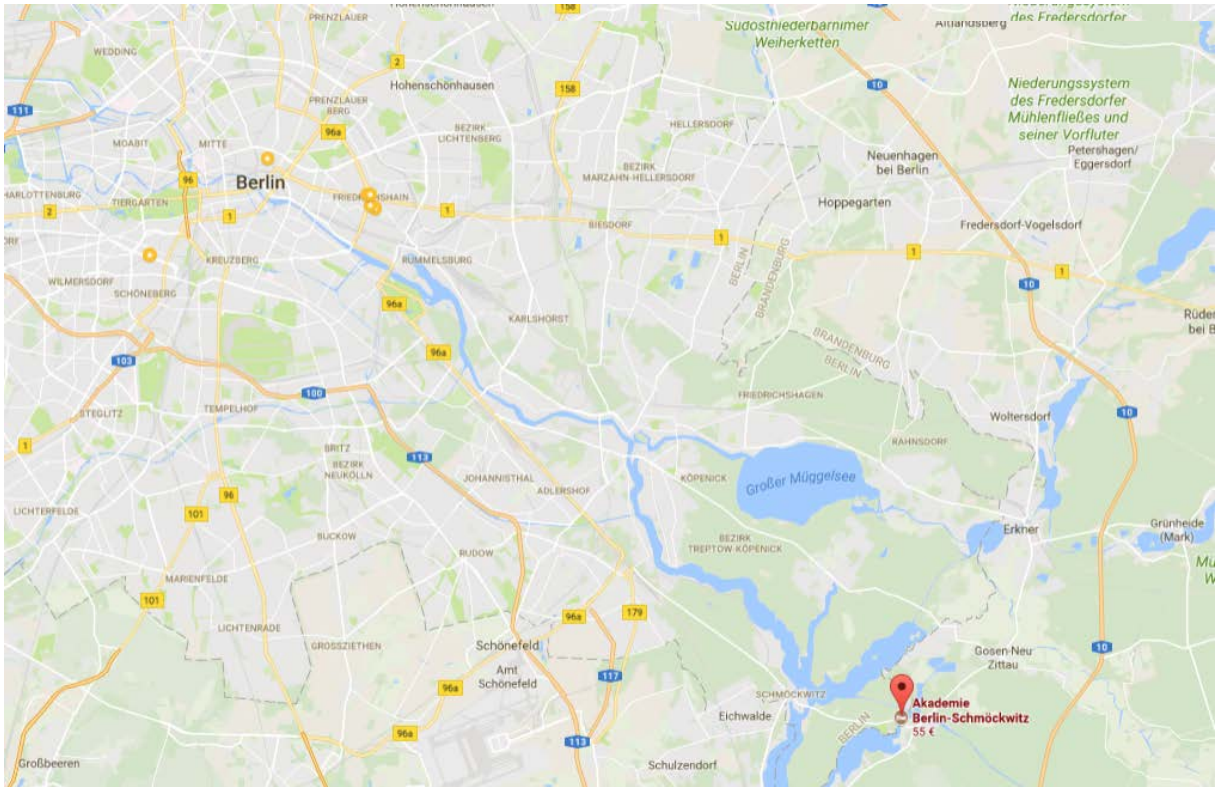
CRC 1114

SCCS Days 2017 of the
Collaborative Research Center – SFB 1114
Scaling Cascades in Complex Systems

08 – 10 November 2017

Akademie Berlin-Schmöckwitz

Program



Travel Information

Venue

Akademie Berlin-Schmöckwitz / Wernsdorfer Str. 43 / 12527 Berlin

akademie-schmoeckwitz.de

Phone: 030 675030

Public Transport Connections

Berlin ABC Ticket is valid.

Bus stop: Berlin, Schmöckwitzwerder, Bus line 733

Attention: Bus 733 to Schmöckwitzwerder only once per hour!

Zeuthen (S) – Schmöckwitzwerder – Königs Wusterhausen (S)

From Berlin Hbf:

Berlin Hbf	ab 08:35	11	RE 63966	Ostdeutsche Eisenbahn GmbH Richtung: Cottbus Fahrradmitnahme begrenzt möglich
Königs Wusterhausen	an 09:09	1		
Fußweg 3 Min. > Umsteigezeit anpassen				
Bahnhof (S), Königs Wusterhausen	ab 09:16		Bus 733	Bus Richtung: Zeuthen (S) keine Fahrradbeförderung möglich , Behindertengerechtes Fahrzeug
Schmöckwitzwerder, Berlin	an 09:40			

Note: RE 63966 also stops at Spandau (08:21), Zoologischer Garten (08:30), Friedrichsstr (08:38), Alexanderplatz (08:42), Ostbahnhof (08:46)

Alternative route form Berlin:

Berlin-Schöneberg	ab 08:11	12	S 46	S-Bahn Richtung: Königs Wusterhausen Fahrradmitnahme begrenzt möglich , nur 2. Klasse
Zeuthen	an 08:47	3		
Fußweg 3 Min. > Umsteigezeit anpassen				
Zeuthen (S)	ab 08:56		Bus 733	Bus Richtung: Bahnhof (S), Königs Wusterhausen keine Fahrradbeförderung möglich , Behindertengerechtes Fahrzeug
Schmöckwitzwerder, Berlin	an 09:16			

Travel Information

From Potsdam:

Potsdam Hbf	ab 07:47	3	RB 18108	Regionalbahn Richtung: Königs Wusterhausen Fahrradmitnahme begrenzt möglich , Fahrzeuggebundene Einstiegshilfe vorhanden
Königs Wusterhausen	an 08:55	1		
🚶 Fußweg 3 Min. > Umsteigezeit anpassen				
Bahnhof (S), Königs Wusterhausen	ab 09:16		Bus 733	Bus Richtung: Zeuthen (S) keine Fahrradbeförderung möglich , Behindertengerechtes Fahrzeug
Schmöckwitzwerder, Berlin	an 09:40			

Insider Tip: Tram 68 from S Köpenick or S Grünau to Alt-Schmöckwitz (from there: Bus 733) is known as the most beautiful tram line of Berlin.

http://www.bvg.de/images/content/service/berlin_erleben/Gruen_05_MitderTramindentiefenSdenvonBerlin.pdf

Local Taxi Services

Königs-Wusterhausen: 03375 5779625

Königs-Wusterhausen: 0170 834 01 86

Taxi Berlin: 030 20 20 20

Wednesday, 08 November 2017

10.00 *Arrival and Check-In*

10.20 Welcome address by Prof. Dr.-Ing. Rupert Klein

Group B, Chair: Dr. Daniela Frömberg

10.25 B01 - *Fault networks and scaling properties of deformation accumulation*

10.50 B03 - *Multilevel coarse graining of multiscale problems*

11.15 B05 - *Origin of the scaling cascades in protein dynamics*

11.40 *Short Break*

11.55 B06 - *Data-driven and tensor-based analysis of multiscale systems*

12.20 B07 - *Selfsimilar structures in turbulent flows and the construction of LES closures*

12.45 *Lunch*

14.15 Review Session (Extended Board) and
Assessment of the IRTG and discussion of its future (Chair: Dr. Nina
Fabjancic; PhD students only)

15.15 Social Event (tba) with *Coffee Break*

17.45 Cluster Presentations

18.30 *Dinner*

19.30 Camp fire

Thursday, 09 November 2017

8.30 *Breakfast*

Group A, **Chair: Dr. Michiel Renger**

9.30 A01 - *Coupling a multiscale stochastic precipitation model to large scale atmospheric flow dynamics*

9.55 A02 - *Multiscale data and asymptotic model assimilation for atmospheric flows*

10.20 A04 - *Efficient modeling of the long-time behavior of multiscale dynamical systems*

10.45 *Short Break*

11.15 A05 - *Probing scales in equilibrated systems by optimal nonequilibrium forcing*

11.40 A06 - *Enabling Bayesian uncertainty quantification for multiscale systems and network models via mutual likelihood-informed dimension reduction*

12.05 A07 - *Discrete-continuum models for particles in membranes*

12.30 *Lunch*

13.30 Review Session (Extended Board) and
Market of Opportunities (Discussion of Ideas with Prof. Dr. Stephan Pfahl, Mercator Fellow Prof. Dr. Illia Horenko & Dr. Sebastian Matera)

Group C (Part 1), **Chair: Dr. Christian Krekeler**

15.00 C09 - *Dynamics of rock dehydration on multiple scales*

15.25 C02 - *Interface dynamics: Bridging stochastic and hydrodynamic descriptions*

15.50 C03 - *Multiscale modelling and simulation for spatiotemporal master equations*

16.15 *Coffee Break*

16.40 Review Session (Extended Board)

17.30 Presentation of the Results of the IRTG Discussion

18.00 Presentation CRC 1114 Dictionary

18.30 *Dinner*

19.30 Candle Light Night (Time to foster internal cooperation)

Friday, 10 November 2017

8.30 Breakfast

Group C (Part 2),

Chair: Dr. Christian Krekeler

9.30 C05 - Interfaces with many scales

9.55 C06 - Multiscale structure of atmospheric vortices

10.20 C08 - Multiscale acceleration of reaction networks

10.45 C01 - Adaptive coupling of scales in molecular dynamics and beyond to fluid dynamics

11.10 Short Break

11.40 Review Session (Extended Board)

13.00 Lunch











14.00 Announcement of Final Results for Proposal

15.00 Discussion of Results for HPC (High-Performance Computing)

16.00 Closing remark of Prof. Dr.-Ing. Rupert Klein

Return Travel

Wernsdorf, Dorfaue (600m from Akademie). Covered by Berlin ABC Ticket.

16:10 ab	Steig 6		→ Wernsdorf, Dorfaue	Start
 Bus 428		Richtung S Erkner  verkehrt im 40 Minuten Takt.		
16:27 an	Steig 7		→ S Erkner Bhf/ZOB	Bitte aussteigen
16:27 ab				
 → Fußweg				
16:30 an			→ S Erkner Bhf	Bitte einsteigen
16:37 ab	Gleis 2			
 RE1		Richtung Magdeburg, Hauptbahnhof  SnackPoint/Imbiss im Zug, Fahrzeuggebundene Einstiegshilfe vorhanden verkehrt alle 29 - 31 Minuten.		
17:09 an	Gleis 14		→ S+U Berlin Hauptbahnhof	Ziel
17:36 an	Gleis 3		→ S Potsdam Hauptbahnhof	Ziel

List of Participants

Principal Investigators

Prof. Dr. Luigi Delle Site
Prof. Dr. Jens Eisert
Prof. Dr. Carsten Gräser
Prof. Dr. Carsten Hartmann
Dr. Hans-Christian Hege
Prof. Dr. Felix Höfling
Prof. Dr. Illia Horenko
Prof. Dr. Petra Imhof
Prof. Dr. Timm John
Prof. Dr. Bettina Keller
Prof. Dr.-Ing. Rupert Klein
Dr. Stefan Klus
Dr. Peter Koltai
Prof. Dr. Wolfgang König
Prof. Dr. Ralf Kornhuber
Prof. Dr. Gitta Kutyniok
Prof. Dr. Alexander Mielke
Prof. Dr. Roland Netz
PD Dr. Peter Névir
Prof. Dr. Frank Noé
Prof. Dr. Onno Oncken
Dr. Robert Patterson
Prof. Dr.-Ing. Sebastian Reich
Prof. Dr. Susanna Röblitz
Dr. Matthias Rosenau
Prof. Dr. Henning Rust
Prof. Dr. Reinhold Schneider
Prof. Dr. Christof Schütte
Prof. Dr. Tim Sullivan
Dr. Marita Thomas
Prof. Dr. Uwe Ulbrich
Prof. Dr. Nikki Vercauteren
PD Dr. Marcus Weber
Dr. Thomas Weikl

Guests

Dr. Sebastian Matera
Prof. Dr. Stefan Pfahl

Coordination Team

Dr. Kristine Al Zoukra
Dr. Nina Fabjancic

Postdocs

Dr. Andreas Bittracher
Dr. Vedat Durmaz
Dr. Ludwig Gauckler
Dr. Patrick Gelß
Dr. Martin Heida
Dr. Shadrack Jabes Barnabas
Dr. Christian Krekeler
Dr. Jan Henning Peters
Dr. Michiel Renger
Dr. Daisuke Sakurai
Dr. Ingmar Schuster
Dr. Arthur Straube
Dr. Thomas von Larcher
Dr. Hao Wu
Dr. Daniela Frömberg

PhD Students

Annette Müller
Lara Neureither
Katarzyna Ziolkowska
Manuel Dibak
Luca Donati
Tom Dörffel
Christoph Fröhner
Irtaza Hassan
Gottfried Hastermann
Moritz Hoffmann
Julian Kappler
Tobias Kies
Andreas Mardt
Fabian Paul
Joscha Podlesny
Jannes Quer
Christoph Ritschel
Michael Rudolf
Robert Schulz
Luigi Sbailo
Sina Zendebroud