Dynamics and Statistical Physics Division
Fachverband Dynamik und Statistische Physik (DY)

Joachim Peinke
Institut für Physik
Carl-von-Ossietzky University Oldenburg
26111 Oldenburg
peinke@uni-oldenburg.de

Overview of Invited Talks and Sessions

(Lecture Rooms H39, H44, H46, H47, and H48; Poster C)

Invited Talks

DY 4.1	Mon	15:00–15:30	H47	**Environmental Superstatistics** — •Christian Beck
DY 4.2	Mon	15:30–16:00	H47	**Statistical decomposition of atmospheric turbulence** — •Matthias Wächter, Allan Morales, Tanja Mücke, Nico Reinke, Joachim Peinke
DY 4.3	Mon	16:00–16:30	H47	**Quantitative approaches to the statistics of extreme events in atmospheric dynamics** — •Holger Kantz, Jochen Broecker, Leo Granger, Julia Gundermann
DY 4.4	Mon	16:30–17:00	H47	**Climate as a Problem of Non-equilibrum Statistical Mechanics** — •Valerio Lucarini
DY 14.1	Tue	15:00–15:30	H44	**When the beat goes off** — •Holger Hennig
DY 14.2	Tue	15:30–16:00	H44	**Chimera states and the transition from spatial coherence to incoherence** — •Philipp Hövel
DY 16.1	Wed	9:30–10:00	H46	**Dynamics of thin sheets: Crumpling, wrinkling and cracking** — •Pascal Damman
DY 18.10	Wed	12:00–12:30	H48	**The physics of information: from Maxwell's demon to Landauer** — •Eric Lutz
DY 20.1	Wed	15:00–15:30	H44	**Energiewende 2.0 * the transformation of energy systems in uncertain times** — •Jürgen-Fr. Hake, Wolfgang Fischer
DY 20.2	Wed	15:30–16:00	H44	**Basin Stability and its Consequences for Power Grids** — •Jürgen Kurths, Peter Menck, Peng Ji
DY 20.3	Wed	16:00–16:30	H44	**Requirements and Concepts for Self-Organized Agent-Based Control in Smart Distribution Grids** — •Astrid Niesse
DY 20.4	Wed	16:30–17:00	H44	**A 100% renewable power system in Europe** — •Martin Greiner, Sarah Becker, Rolando Rodriguez, Tue Jensen, Timo Zeyer, Anders Soendergaard, Gorm Andresen
DY 22.6	Wed	16:30–17:00	H48	**Entropy based approaches to transport** — •Thomas Christen
DY 26.1	Thu	9:30–10:00	H47	**Genuine quantum interference in interacting bosonic fields: The semiclassical propagator in Fock space** — •Juan Diego Urbina, Thomas Engl, Arturo Arguelles, Julien Dujardin, Peter Schlagheck, Klaus Richter
DY 29.1	Thu	15:00–15:30	H44	**Transitions in rotating Rayleigh-Benard convection at high Rayleigh numbers** — •Andreas Tilgner
DY 29.2	Thu	15:30–16:00	H44	**Connecting Statistics and Dynamics of Turbulent Rayleigh–Bénard Convection** — •Johannes Lülff, Michael Wilczek, Rudolf Friedrich, Richard Stevens, Detlef Lohse, Klaus Petschel, Ulrich Hansen
DY 29.3	Thu	16:00–16:30	H44	**Temperature statistics near the ultimate state of turbulent Rayleigh-Bénard convection** * — •Xiaozhou He, Dennis van Gils, Eberhard Bodenschatz, Guenter Ahlers
DY 29.4	Thu	16:30–17:00	H44	**Cloud formation studies in moist Rayleigh-Benard convection** — •Jörg Schumacher

Invited talks of the joint symposium SYSC

See SYSC for the full program of the symposium.

SYSC 1.1	Tue	9:30–10:00	H1	**Exploring the Physics of Superconducting Qubits Strongly Coupled to Microwave Frequency Photons** — •Andreas Wallraff
SYSC 1.2	Tue	10:00–10:30	H1	**Hybrid Quantum Circuit with a Superconducting Qubit Coupled to an Electron Spin Ensemble** — •Yuimaru Kubo, Cecile Grezes, Igor Diniz, Jun-ichi Isoya, Vincent Jacques, Anais Dreau, Jean-François Roch, Alexia Auffeves, Denis Vion, Daniel Esteve, Patrice Bertet
SYSC 1.3	Tue	10:30–11:00	H1	**Hybrid Quantum Systems with Rare-Earth Ion Spin Ensemble** — •Pavel Bushev
SYSC 1.4	Tue	11:00–11:30	H1	**Quantum Coherent Coupling between a Mechanical Oscillator and an Optical Mode** — Ewold Verhagen, Dalziel Wilson, Vivishek Sudhir, Nicolas Piro, Albert Schliesser, •Tobias Kippenberg
SYSC 1.5	Tue	11:30–12:00	H1	**Exploring Quantum Light-Matter Interactions of Quantum Dots in Photonic Crystal Nanostructures** — •Jonathan Finley, Arne Laucht, Michael Kaniber, Stefan Lichtmannecker, Thorsten Reichert, Guenther Reithmaier, Fabrice Laussy, Ulrich Hoheneester

Invited talks of the joint symposium SYMM

See SYMM for the full program of the symposium.

SYMM 1.1	Thu	9:30–10:00	H1	**Challenges for first-principles based computation of properties of oxide materials** — •Karsten Albe
SYMM 1.2	Thu	10:00–10:30	H1	**Deformation and Fracture of Solids: Tough Nuts at Atomic and Continuum Scales** — •Peter Gumbsch, Matous Mrovec, Kinshuk Srivastava, Daniel Weygand
SYMM 1.3	Thu	10:30–11:00	H1	**Crucial Issues and Future Directions of Through-Process Modeling** — •Guenter Gottstein
SYMM 1.4	Thu	11:00–11:30	H1	**Adaptive Resolution Simulations for Soft Matter: Applications and New Developments** — •Kurt Kremer
SYMM 1.5	Thu	11:30–12:00	H1	**Materials by design** — •Markus Buehler

Sessions

DY 1.1–1.10	Mon	9:30–12:15	H39	**Quantum Dynamics, Decoherence and Quantum Information I**
DY 2.1–2.8	Mon	9:30–11:30	H47	**Statistical Physics in Biological Systems I (joint with BP)**
DY 3.1–3.7	Mon	15:00–17:00	H39	**Quantum Dynamics, Decoherence and Quantum Information II**
DY 4.1–4.6	Mon	15:00–17:30	H47	**Focus Session: Atmospheric and Climate Complexity**
DY 5.1–5.5	Mon	15:00–16:15	H48	**Reaction-Diffusion Systems**
DY 6.1–6.9	Mon	15:00–17:30	H34	**Glasses and Glass Transition (joint session DY/CPP) I**
DY 7.1–7.25	Mon	17:30–19:30	Poster C	**Poster I**
DY 8.1–8.15	Mon	17:30–19:30	Poster C	**Poster I: Glasses and Glass Transition (joint session DY/DF/CPP)**
DY 9.1–9.24	Mon	17:30–19:30	Poster B2	**Poster I: Statistical Physics in Biological Systems (joint with BP)**
DY 10.1–10.11	Tue	9:30–12:30	H46	**Glasses (joint session DY/DF/CPP)**
DY 11.1–11.8	Tue	9:30–11:45	H47	**Statistics and Dynamics of/on Networks (joint session BP/DY/SOE)**
DY 12.1–12.12	Tue	9:30–12:45	H48	**Nonlinear Dynamics, Synchronization and Chaos I**
DY 13.1–13.5	Tue	9:30–12:00	H1	**Symposium: Strong Coupling in Solid State Quantum Systems (SYSC)**
DY 14.1–14.2	Tue	15:00–16:00	H44	**Nonlinear Dynamics, Synchronization and Chaos II**
DY 15.1–15.4	Tue	15:00–16:00	H37	**Evolutionary Game Theory (joint session BP/DY/SOE)**
DY 16.1–16.9	Wed	9:30–12:15	H46	**Pattern Formation**
DY 17.1–17.8	Wed	10:00–12:00	H47	**Soft matter**
DY 18.1–18.10	Wed	9:30–12:30	H48	**Statistical Physics Far from Thermal Equilibrium**

DY 19.1–19.9	Wed	9:30–12:30	H37	**Focus Session: Dynamics of Adaptive Networks (joint session BP/DY/SOE)**
DY 20.1–20.6	Wed	15:00–17:30	H44	**Focus Session: Modern Power Grid, Nonlinear Dynamics and Self-Organization (joint with SOE)**
DY 21.1–21.12	Wed	15:00–18:15	H47	**Granular Matter / Contact Dynamics**
DY 22.1–22.12	Wed	15:00–18:30	H48	**Statistical Physics (general)**
DY 23.1–23.9	Wed	15:00–17:30	H43	**Statistical Physics in Biological Systems II (joint with BP)**
DY 24.1–24.5	Wed	15:45–17:00	H37	**Networks, From Topology to Dynamics (joint session BP/DY/SOE)**
DY 25.1–25.12	Thu	9:30–12:45	H46	**Critical Phenomena and Phase Transitions**
DY 26.1–26.8	Thu	9:30–12:00	H47	**Quantum Chaos I**
DY 27.1–27.7	Thu	9:30–11:30	H48	**Fluid Dynamics and Turbulence**
DY 28.1–28.5	Thu	9:30–12:00	H1	**Symposium: Computational Challenges in Scale-Bridging Modeling of Materials (SYMM)**
DY 29.1–29.4	Thu	15:00–17:00	H44	**Focus Session: Rayleigh Benard System and Convective Turbulence**
DY 30.1–30.5	Thu	15:00–16:15	H47	**Quantum Chaos II**
DY 31.1–31.7	Thu	15:00–16:45	H48	**Anomalous Diffusion**
DY 32.1–32.10	Thu	15:00–17:30	H46	**Statistical Physics in Biological Systems III (joint with BP)**
DY 33.1–33.63	Thu	17:00–19:00	Poster C	**Poster II**
DY 34.1–34.1	Thu	19:00–20:00	H47	**Annual General Meeting of DY**
DY 35.1–35.8	Fri	9:30–11:30	H48	**Brownian Motion and Transport**
DY 36.1–36.12	Fri	9:30–12:45	H44	**Statistical Physics in Biological Systems IV (joint with BP)**

Annual General Meeting of the Dynamics and Statistical Physics Division

Donnerstag 19:00–20:00 H47

- Bericht
- Verschiedenes