

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

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### Overview of Invited Talks and Sessions

(Lecture rooms H44, H46, H47, H48, and H36; Poster C)

#### Invited Talks

DY 3.1	Mon	9:30–10:00	H46	<b>History and Structure of Granular Sediments</b> — ●THORSTEN PÖSCHEL
DY 11.1	Mon	15:00–15:30	H44	<b>Large deviation functionals in stochastic thermodynamics</b> — ●ANDREAS ENGEL, JOHANNES HOPPENAU, DANIEL NICKELSEN
DY 11.2	Mon	15:30–16:00	H44	<b>Thermodynamics with Continuous Information Flow</b> — ●MASSIMILIANO ESPOSITO
DY 11.3	Mon	16:00–16:30	H44	<b>Measuring energy and information one molecule at a time</b> — ●FELIX RITORT
DY 11.4	Mon	16:45–17:15	H44	<b>Information reservoirs, bipartite systems, and the minimal energetic cost of uncertainty in biomolecular reactions</b> — ●ANDRE C BARATO
DY 11.5	Mon	17:15–17:45	H44	<b>Feedback control of transport in nanostructures.</b> — ●TOBIAS BRANDES
DY 16.1	Tue	9:30–10:00	H47	<b>Amoeboid swimming</b> — ●CHAOUQI MISBAH
DY 35.1	Wed	9:30–10:00	H46	<b>Nonreciprocal forces in soft matter systems: passive particles become active</b> — ●HARTMUT LÖWEN
DY 41.1	Wed	15:00–15:30	H48	<b>Visualizing quantum chaos in four dimensions</b> — ●ARND BÄCKER
DY 49.1	Thu	9:30–10:00	H46	<b>Patterns formation through elastic instabilities, from thin sheets to twisted ribbons</b> — ●PASCAL DAMMAN
DY 50.1	Thu	9:30–10:00	H48	<b>A new look at atomic tunneling systems in glasses containing isotopes with nuclear quadrupol moments</b> — ●ANDREAS REISER
DY 54.1	Thu	15:00–15:30	H20	<b>Between Localization and Ergodicity in Quantum Systems</b> — ●BORIS ALTSCHULER
DY 54.2	Thu	15:30–16:00	H20	<b>Canonical description of short-range interacting few-body quantum systems</b> — ●QUIRIN HUMMEL, BENJAMIN GEIGER, JUAN DIEGO URBINA, KLAUS RICHTER
DY 54.3	Thu	16:00–16:30	H20	<b>One, Two, Three, Many: Manipulating Quantum Systems One Atom at a Time</b> — ●SELIM JOCHIM
DY 54.4	Thu	16:45–17:15	H20	<b>Statistical Signatures of Many-Particle Interference</b> — ●MATTIA WALSCHAERS
DY 54.5	Thu	17:15–17:45	H20	<b>Boson sampling with integrated quantum photonics</b> — ●FABIO SCIARRINO
DY 57.1	Thu	15:00–15:30	H46	<b>The Transition to the Ultimate State in Turbulent Thermal Convection</b> — ●EBERHARD BODENSCHATZ

#### Invited talks of the joint symposium SYCS

See SYCS for the full program of the symposium.

SYCS 1.1	Tue	9:30–10:00	H1	<b>Theory far from infinity: chimera states without the thermodynamic limit</b> — ●DANIEL ABRAMS
SYCS 1.2	Tue	10:00–10:30	H1	<b>Chimera patterns: Influence of topology, noise, and delay</b> — ●ECKEHARD SCHÖLL
SYCS 1.3	Tue	10:30–11:00	H1	<b>Chimera states in quantum mechanics</b> — ●VICTOR MANUEL BASTIDAS VALENCIA
SYCS 1.4	Tue	11:15–11:45	H1	<b>Synchronization in Populations of Chemical Oscillators: Phase Clusters and Chimeras</b> — ●KENNETH SHOWALTER
SYCS 1.5	Tue	11:45–12:15	H1	<b>Epileptic seizures: chimeras in brain dynamics</b> — ●KLAUS LEHNERTZ

**Invited talks of the joint symposium SYSM**

See SYSM for the full program of the symposium.

SYSM 1.1	Thu	9:30–10:00	H1	<b>Science Forecasts: Measuring, Predicting, and Communicating Scientific Developments</b> — ●KATY BÖRNER
SYSM 1.2	Thu	10:00–10:30	H1	<b>Mapping science with variable-order Markov dynamics reveal overlapping fields and multidisciplinary journals</b> — ●MARTIN ROSVALL
SYSM 1.3	Thu	10:30–11:00	H1	<b>Network algorithms for reputation and quality in scholarly data</b> — ●MATÚŠ MEDO, MANUEL MARIANI, YI-CHENG ZHANG
SYSM 1.4	Thu	11:15–11:45	H1	<b>Modeling scientific networks in social media</b> — ●CASSIDY SUGIMOTO
SYSM 1.5	Thu	11:45–12:15	H1	<b>Modeling scientific collaboration across multiple scales: from individuals to Europe</b> — ●ALEXANDER PETERSEN

**Invited talks of the joint symposium SYAD**

See SYAD for the full program of the symposium.

SYAD 1.1	Thu	15:00–15:30	H15	<b>Phenomenology of Collective Chemotaxis in Artificial and Living Active Matter</b> — ●RAMIN GOLESTANIAN
SYAD 1.2	Thu	15:30–16:00	H15	<b>First-passage times of Markovian and non Markovian random walks in confinement</b> — ●RAPHAEL VOITURIEZ
SYAD 1.3	Thu	16:00–16:30	H15	<b>Cytoskeleton organization as an optimized, spatially inhomogeneous intermittent search strategy</b> — ●HEIKO RIEGER, YANNICK SCHRÖDER, KARSTEN SCHWARZ
SYAD 1.4	Thu	16:45–17:15	H15	<b>Ergodicity violation and ageing in living biological cells</b> — ●RALF METZLER
SYAD 1.5	Thu	17:15–17:45	H15	<b>Anomalous diffusion within cells</b> — SARAH KLEIN, ●CECILE APPERT-ROLLAND, LUDGER SANTEN

**Sessions**

DY 1.1–1.3	Sun	16:00–18:30	H16	<b>Tutorial: Evolutionary Dynamics and Applications to Biology, Social and Economic Systems (SOE / DY / BP / jDPG)</b>
DY 2.1–2.6	Mon	9:30–11:00	H45	<b>Colloids and Complex Fluids I (joint Session BP/CPP/DY, organized by BP)</b>
DY 3.1–3.11	Mon	9:30–12:45	H46	<b>Granular Matter</b>
DY 4.1–4.12	Mon	9:30–12:45	H47	<b>Dynamics in many-body systems: Equilibration and localization (joint session DY/TT)</b>
DY 5.1–5.11	Mon	9:30–13:00	H51	<b>Colloids and Complex Fluids II (joint session CPP/BP/DY)</b>
DY 6.1–6.6	Mon	10:00–11:30	H36	<b>Networks: From Topology to Dynamics I (joint session SOE / DY / BP)</b>
DY 7.1–7.5	Mon	10:30–12:35	H2	<b>SKM Dissertation-Prize 2016</b>
DY 8.1–8.4	Mon	12:15–13:15	H36	<b>Evolutionary Game Theory (joint session SOE / BP / DY)</b>
DY 9.1–9.1	Mon	14:00–14:45	H15	<b>Plenary Talk: Ehud Meron</b>
DY 10.1–10.11	Mon	15:00–18:00	H42	<b>Colloids and Complex Fluids III (joint session CPP/BP/DY)</b>
DY 11.1–11.5	Mon	15:00–17:45	H44	<b>Focus Session: Stochastic thermodynamics and information processing (joint session DY/BP)</b>
DY 12.1–12.4	Mon	15:00–16:00	H47	<b>Energy systems</b>
DY 13.1–13.9	Mon	15:00–17:15	H48	<b>Statistical Physics (general)</b>
DY 14.1–14.6	Mon	16:15–17:45	H47	<b>Complex Systems</b>
DY 15.1–15.5	Tue	9:30–12:15	H1	<b>Chimera State: Coherence-Incoherence Patterns in Complex Networks (joint symposium DY/SOE/BP)</b>
DY 16.1–16.12	Tue	9:30–13:00	H47	<b>Microswimmers I (joint session DY/BP)</b>
DY 17.1–17.12	Tue	10:00–13:15	H48	<b>Statistical Physics far from Thermal Equilibrium</b>
DY 18.1–18.4	Tue	12:00–13:00	H43	<b>Statistical Physics of Biological Systems I (Joint Session with DY)</b>
DY 19.1–19.6	Tue	14:00–15:45	H23	<b>Transport: Fluctuation and Noise (Joint session of DY and TT organized by TT)</b>
DY 20.1–20.4	Tue	14:00–15:00	H36	<b>Chimera State: Symmetry breaking in dynamical networks (joint session DY/SOE accompanying symposium SYCS)</b>
DY 21.1–21.5	Tue	14:00–15:15	H46	<b>Complex Fluids and Colloids IV (joint session DY/BP/CPP)</b>

DY 22.1–22.6	Tue	14:00–15:30	H47	<b>Anomalous Diffusion (joint session DY/BP)</b>
DY 23.1–23.5	Tue	14:00–15:15	H48	<b>Quantum Dynamics, Decoherence and Quanten Information</b>
DY 24.1–24.3	Tue	15:00–15:45	H36	<b>Networks: From Topology to Dynamics II (joint session SOE / DY / BP)</b>
DY 25.1–25.8	Tue	18:15–21:00	Poster B2	<b>Poster: Soft Matter Dynamics / Glasses</b>
DY 26.1–26.13	Tue	18:15–21:00	Poster C	<b>Poster - Quanten Systems</b>
DY 27.1–27.13	Tue	18:15–21:00	Poster C	<b>Poster - Statistical Physics, Critical Phenomena, Brownian motion</b>
DY 28.1–28.17	Tue	18:15–21:00	Poster C	<b>Poster - Complex Fluids, Granular Matter, Glasses</b>
DY 29.1–29.13	Tue	18:15–21:00	Poster C	<b>Poster - Active Matter, Microswimmers and -fluidics, Statistical Physics Biosystems</b>
DY 30.1–30.16	Tue	18:15–21:00	Poster C	<b>Poster - Complex nonlinear systems</b>
DY 31.1–31.13	Tue	18:15–21:00	Poster C	<b>Poster - Pattern Formation</b>
DY 32.1–32.3	Tue	18:15–21:00	Poster C	<b>Poster - Turbulence</b>
DY 33.1–33.13	Wed	9:30–13:15	H22	<b>Transport: Graphene (Joint session of DS, DY, HL, MA, O and TT organized by TT)</b>
DY 34.1–34.9	Wed	9:30–12:15	H42	<b>Crystallization, Nucleation, Self Assembly I (joint session CPP/DY, organized by CPP)</b>
DY 35.1–35.11	Wed	9:30–12:45	H46	<b>Active Matter (joint session DY/BP)</b>
DY 36.1–36.11	Wed	10:00–13:00	H47	<b>Complex Fluids and Colloids V (joint session DY/BP/ CPP)</b>
DY 37.1–37.8	Wed	10:00–12:00	H48	<b>Nonlinear Dynamics, Synchronization and Chaos</b>
DY 38.1–38.4	Wed	11:30–12:30	H43	<b>Statistical Physics of Biological Systems II (Joint Session with DY)</b>
DY 39.1–39.6	Wed	11:30–13:00	H45	<b>Microswimmers II (joint Session BP/DY)</b>
DY 40.1–40.8	Wed	16:00–18:30	H42	<b>Crystallization, Nucleation, Self Assembly II (joint session CPP/DY, organized by CPP)</b>
DY 41.1–41.9	Wed	15:00–17:45	H48	<b>Quantum Chaos</b>
DY 42.1–42.9	Wed	15:00–18:15	H51	<b>Focus: Multiscale Simulations for Soft Matter: The Challenge of Dynamics (joint session CPP/DY, organized by CPP)</b>
DY 43.1–43.3	Wed	15:30–16:15	H46	<b>Statistical Physics in Biological Systems III (joint DY/BP)</b>
DY 44.1–44.7	Wed	15:30–17:15	H47	<b>Critical Phenomena and Phase Transitions</b>
DY 45.1–45.5	Wed	16:30–17:45	H46	<b>Brownian Motion and Transport</b>
DY 46.1–46.14	Wed	18:15–21:00	Poster B2	<b>Poster: Wetting, Nano- and Microfluidics</b>
DY 47.1–47.5	Thu	9:30–12:15	H1	<b>Scientometric Maps and Dynamic Models of Science and Scientific Collaboration Networks (SYSM)</b>
DY 48.1–48.11	Thu	9:30–12:45	H42	<b>Wetting, Nano- and Microfluidics I (joint session CPP/DY)</b>
DY 49.1–49.12	Thu	9:30–13:00	H46	<b>Pattern Formation (joint session DY/BP)</b>
DY 50.1–50.12	Thu	9:30–13:00	H48	<b>Glasses</b>
DY 51.1–51.5	Thu	10:00–11:15	H47	<b>Delay and feedback Dynamics</b>
DY 52.1–52.5	Thu	11:30–12:45	H47	<b>Extreme events</b>
DY 53.1–53.5	Thu	15:00–17:45	H15	<b>Anomalous Diffusion in Complex Environments (joint session BP/ CPP/DY)</b>
DY 54.1–54.5	Thu	15:00–17:45	H20	<b>Focus Session: Many-Body Interference and Quantum Statistical Physics (joint session DY/TT)</b>
DY 55.1–55.13	Thu	15:00–18:30	H40	<b>Polymer Dynamics and Rheology (joint session CPP/DY, organized by CPP)</b>
DY 56.1–56.7	Thu	15:00–16:45	H42	<b>Wetting, Nano- and Microfluidics II (joint session CPP/DY)</b>
DY 57.1–57.13	Thu	15:00–18:45	H46	<b>Focus Session: Turbulence - From Pattern Formation to Stochastic Disorder</b>
DY 58.1–58.6	Thu	15:30–17:00	H47	<b>Networks: From Topology to Dynamics III (joint session DY/BP/SOE)</b>
DY 59.1–59.4	Thu	16:45–17:45	H43	<b>Networks - From Topology to Dynamics IV (Joint Session BP/SOE/DY)</b>
DY 60.1–60.9	Fri	9:30–12:00	H51	<b>Interfaces and Thin Films II (joint session CPP/DY, organized by CPP)</b>

## Annual General Meeting of the Dynamics and Statistical Physics Division

10. März 2016 19:00–20:00 H47

- Bericht
- Frühjahrstagung 2017
- Verschiedenes