

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

Klaus Richter
Universität Regensburg
Naturwissenschaftliche Fakultät II-Physik
93040 Regensburg
klaus.richter@physik.uni-regensburg.de

Overview of Invited Talks and Sessions

(lecture rooms MA 001, MA 004, A 053, A 060, EB 407; Poster C)

Prize Talk

The prize talk (Max Born-Prize) by Prof. Hagen Kleinert takes place Friday, 9:15, H 0105. See the plenary section for the abstract.

Invited Talks

DY 1.1	Mon	10:00–10:30	MA 004	The Thermodynamic Casimir Effect: Monte Carlo Results — •ALFRED HUCHT
DY 2.9	Mon	12:30–13:00	MA 001	New Results on Water in Bulk, Nanoconfined, and Biological Environments — •H. EUGENE STANLEY
DY 4.1	Mon	14:00–14:30	MA 004	Entropic particle transport — •GERHARD SCHMID, P. SEKHAR BURADA, PETER HÄNGGI
DY 11.1	Tue	9:30–10:00	EB 407	Glass freezing in confined geometries studied by DMA — •WILFRIED SCHRANZ, JOHANNES KOPPENSTEINER, MADALINA-ROXANA PUICA
DY 14.1	Tue	14:00–14:30	MA 004	When it helps to be purely Hamiltonian: Acceleration of rare events, enhanced particle and energy transport — •DIRK HENNIG, LUTZ SCHIMANSKY-GEIER, PETER HÄNGGI
DY 18.1	Wed	14:00–14:30	MA 001	Rate Dependence and Role of Disorder in Linearly Sheared Two-Dimensional Foams. — •MARTIN VAN HECKE, GIJS KATGERT, MATTHIAS MOEBIUS
DY 23.1	Thu	9:30–10:00	MA 001	From the phase-space representation of optical microcavities to an improved ray dynamics — •MARTINA HENTSCHEL
DY 25.5	Thu	12:30–13:00	MA 001	State space properties of linearly stable flows - How does flow in a pipe become turbulent? — •TOBIAS M. SCHNEIDER
DY 26.1	Thu	14:00–14:30	MA 001	Statistical physics of atmospheric clouds — •RAYMOND A. SHAW

DY10 Symposium "Controlling Dirty bosons: Disorder effects on BECs"

Organization: A. Pelster (Universität Duisburg-Essen)

DY 10.1	Tue	9:30–10:00	MA 001	Localization of interacting ultra cold atoms in a disordered potential — •ALAIN ASPECT, DAVID CLÉMENT, PIERRE LUGAN, PHILIPPE BOUYER, GORA SHLYAPNIKOV, LAURENT SANCHEZ-PALENCIA
DY 10.2	Tue	10:00–10:25	MA 001	Coherent backscattering of Bose-Einstein condensates from 2D disorder potentials — •PETER SCHLAGHECK
DY 10.3	Tue	10:25–10:55	MA 001	Ultracold atoms near nanofabricated surfaces — •JOZSEF FORTAGH
DY 10.4	Tue	10:55–11:20	MA 001	Collective Excitations in a Trapped Bose-Einstein Condensate with Weak Quenched Disorder — •GIANMARIA FALCO, AXEL PELSTER, ROBERT GRAHAM
DY 10.5	Tue	11:20–11:50	MA 001	Disorder in ultracold Fermi-Bose quantum gas mixtures — •KLAUS SENGSTOCK
DY 10.6	Tue	11:50–12:15	MA 001	DMRG Studies of Disordered Bosons — •ULRICH SCHOLLWÖCK

Invited Talks of joint symposia with other Divisions

Symposium: "Quantum phase transitions (SYPT)"

See SYPT for the full program of the Symposium.

SYPT 1.1	Mon	14:00–14:35	H 0105	Dark order in the metallic state — ●ANDREW JOHN SCHOFIELD
SYPT 1.2	Mon	14:35–15:10	H 0105	Quantum criticality in YbRh_2Si_2 — ●PHILIPP GEGENWART
SYPT 1.3	Mon	15:10–15:45	H 0105	Elementary Excitations in Quantum Critical Antiferromagnets — ●CHRISTIAN RUEGG
SYPT 1.4	Mon	16:00–16:35	H 0105	How to have fun with frustrated ferromagnets — ●NIC SHANNON, TSUTOMU MOMOI, PHILIPPE SINDZINGRE
SYPT 1.5	Mon	16:35–17:10	H 0105	Towards Quantum Magnetism with Ultracold Quantum Gases in Optical Lattices — ●IMMANUEL BLOCH
SYPT 1.6	Mon	17:10–17:45	H 0105	Correlated inhomogeneous systems: from trapped atoms to heterostructures — ●ACHIM ROSCH

Symposium: "Single molecules (SYSM)"

See SYSM for the full program of the Symposium.

SYSM 1.1	Tue	14:00–14:30	H 0105	Two-Focus Fluorescence Correlation Spectroscopy: A versatile tool for precise measurements of molecular diffusion — ●JÖRG ENDERLEIN, ANASTASIA LOMAN, THOMAS DERTINGER, IRIS VON DER HOCHT, BERND MÜLLER, VICTOR PACHECO, KONSTANTIN KOMOLOV, KARL-WILHELM KOCH, INGO GREGOR
SYSM 1.2	Tue	14:30–15:00	H 0105	Tracking and Manipulating Single Molecule Diffusion in Liquids — ●FRANK CICHOS
SYSM 1.3	Tue	15:00–15:30	H 0105	Single Molecule Studies on Myosin Motors — ●CLAUDIA VEIGEL
SYSM 1.4	Tue	16:00–16:30	H 0105	Real-time observation of bacteriophage T4 gp41 helicase reveals unwinding mechanism — M. MANOSA, T. LIONNET, M. M. SPIERING, S. J. BENKOVIC, D. BENSIMON, ●V. CROQUETTE
SYSM 1.5	Tue	16:30–17:00	H 0105	From valleys to ridges: Exploring the dynamic energy landscape of single membrane proteins — ●DANIEL MÜLLER

Max Planck Symposium

On the occasion of Max Planck's 150. birthday a Symposium takes place Wednesday, 14:30, H 0105. See the corresponding section SYGP for the list of speakers.

Symposium: "Computational soft matter physics (SYMP)"

See SYMP for the full program of the Symposium.

SYMP 1.1	Thu	9:30–10:00	H 0105	Hydrodynamic cooperativity in active fluids — ●IGNACIO PAGONABARRAGA
SYMP 1.2	Thu	10:00–10:30	H 0105	Hydrodynamic Effects on Molecular Motion — ●RAYMOND KAPRAL
SYMP 1.5	Thu	11:15–11:45	H 0105	Proton transport through water-filled narrow pores — ●CHRISTOPH DELLAGO
SYMP 1.6	Thu	11:45–12:15	H 0105	Role of fluctuations in the selectivity mechanism for the KcsA potassium channel — ●MICHAEL E. PAULAITIS, DILIP ASTHAGIRI, LAWRENCE R. PRATT
SYMP 2.1	Thu	14:00–14:30	H 0105	DNA mechanics and dynamics — ●RICHARD LAVERY
SYMP 2.2	Thu	14:30–15:00	H 0105	Charge mobility of discotic mesophases of polyaromatic hydrocarbons: a multiscale quantum/classical study — ●DENIS ANDRIENKO
SYMP 2.4	Thu	15:30–16:00	H 0105	Simulation of coarse-grained membrane models — ●MARCUS MÜLLER
SYMP 2.5	Thu	16:00–16:30	H 0105	Fragments of a computational cell: mesoscopic simulations of soft matter — ●JULIAN C. SHILLCOCK

Symposium: "Game theory in dynamical systems (SYDN)"

See SYDN for the full program of the Symposium.

SYDN 1.1	Fri	10:10–10:50	H 0105	Volunteering and Punishment in Public Goods games — •CHRISTOPH HAUERT
SYDN 1.8	Fri	12:20–13:00	H 0105	Inequity Concerns in Social Networks — •PABLO BRANAS-GARZA

Sessions

DY 1.1–1.7	Mon	10:00–12:00	MA 004	Critical phenomena and phase transitions
DY 2.1–2.9	Mon	10:30–13:00	MA 001	Statistical physics I (general)
DY 3.1–3.8	Mon	10:30–12:30	A 053	Statistical physics of complex networks I
DY 4.1–4.11	Mon	14:00–17:00	MA 004	Brownian motion and transport
DY 5.1–5.9	Mon	14:30–16:45	MA 001	Statistical physics in biological systems (joint session DY/BP)
DY 6.1–6.4	Mon	14:30–15:30	A 053	Ferrofluids
DY 7.1–7.7	Mon	16:30–18:15	A 053	Time-delayed feedback and neural networks
DY 8.1–8.6	Mon	17:00–18:30	MA 001	Superfluidity and Bose Einstein Condensation
DY 9.1–9.6	Mon	17:00–18:30	MA 004	Nonlinear dynamics, synchronization and chaos I
DY 10.1–10.6	Tue	9:30–12:15	MA 001	Internal Symposium: Controlling Dirty Bosons: Disorder Effects on BECs
DY 11.1–11.10	Tue	9:30–12:15	EB 407	Glasses I (joint session DF/DY)
DY 12.1–12.5	Tue	10:00–11:15	MA 004	Nonlinear dynamics, synchronization and chaos II
DY 13.1–13.6	Tue	11:30–13:00	MA 004	Cardiac dynamics and reaction-diffusion systems
DY 14.1–14.7	Tue	14:00–16:00	MA 004	Statistical physics II (general)
DY 15.1–15.9	Tue	14:30–16:45	MA 001	Controlling Dirty Bosons: Disorder Effects on BECs
DY 16.1–16.7	Tue	14:30–16:15	EB 407	Glasses II (joint session DF/DY)
DY 17.1–17.59	Tue	16:00–18:00	Poster C	Poster I
DY 18.1–18.9	Wed	14:00–16:30	MA 001	Soft matter
DY 19.1–19.8	Wed	14:30–16:30	MA 004	Granular matter I
DY 20.1–20.7	Wed	14:30–16:15	EB 407	Glasses III (joint session DF/DY)
DY 21.1–21.5	Wed	16:45–18:00	MA 001	Nonlinear dynamics, synchronization and chaos III
DY 22.1–22.7	Wed	16:45–18:30	MA 004	Statistical physics of complex networks II
DY 23.1–23.6	Thu	9:30–11:15	MA 001	Quantum chaos I
DY 24.1–24.10	Thu	10:00–12:30	MA 004	Granular matter II
DY 25.1–25.5	Thu	11:30–13:00	MA 001	Fluid dynamics I
DY 26.1–26.11	Thu	14:00–17:00	MA 001	Fluid dynamics II
DY 27.1–27.10	Thu	14:30–17:00	MA 004	Quantum chaos II
DY 28.1–28.6	Thu	14:30–16:00	A 060	Statistical physics far from thermal equilibrium
DY 29.1–29.72	Thu	16:00–18:00	Poster C	Poster II
DY 30.1–30.11	Fri	10:15–13:00	MA 001	Nonlinear stochastic systems
DY 31.1–31.11	Fri	10:15–13:00	MA 004	Quantum dynamics, decoherence and quantum information

Annual General Meeting of the Dynamics and Statistical Physics Division

Thursday 18:30–19:30 MA 004

Tagesordnung:

- Bericht des Fachverbandsleiters
- Tagungsnachlese
- Verschiedenes