

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

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Overview of invited talks and sessions

(main lecture rooms HÜL 186, ZEU 118, ZEU 255, and KÖN Farb; poster P1, P3, and P4)

Plenary talk of the division DY

PV III Mon 9:15–10:00 HSZ 01 **Linear and non-linear mechanics of biopolymer networks** — ●DAVID A. WEITZ

Invited and topical talks in regular sessions (chronological order)

DY 2.10	Mon	12:45–13:15	ZEU 255	Trends, questions and methods in molecular magnetism — ●JÜRGEN SCHNACK
DY 5.1	Mon	14:00–14:30	HÜL 186	Collective dynamics in the cytoskeleton and swimming bacteria — ●FALKO ZIEBERT, SUMANTH SWAMINATHAN, SHAWN RYAN, LEONID BERLYAND, IGOR ARANSON
DY 6.10	Mon	16:30–17:00	ZEU 255	The multiscale dynamics of lightning and of terrestrial gamma-ray flashes — ●UTE EBERT
DY 13.1	Tue	10:15–10:45	ZEU 118	Aggregation and Fragmentation of fractal-like particles in synthetic turbulent flows — ●ULRIKE FEUDEL, JENS ZAHNOW, JOERAN MAERZ
DY 12.10	Tue	12:45–13:15	ZEU 255	Non-equilibrium quantum relaxation, thermalization and boundary effects — ●HEIKO RIEGER, FERENC IGLÓI
DY 17.1	Wed	10:15–10:45	ZEU 255	Nonlinear Dynamics of Complex Hysteretic Systems — ●GÜNTER RADONS
DY 18.1	Wed	10:15–10:45	GÖR 226	Impact of Single Links in Growing Networks — ●JAN NAGLER, MARC TIMME
DY 23.1	Wed	14:00–14:30	ZEU 255	Nonlinear waves in localizing media — ●SERGEJ FLACH
DY 34.1	Thu	14:00–14:30	ZEU 255	Dynamics of particles in turbulent flow: size matters — ●HOLGER HOMANN, JÉRÉMIE BEC, RAINER GRAUER
DY 33.10	Thu	16:30–17:00	HÜL 186	Motion States in Intracellular Transport — ●DORIS HEINRICH

Invited talks of the joint symposium SKM-SYBE

See SKM-SYBE for the full program of the symposium.

SKM-SYBE 1.1	Fri	10:30–11:00	TRE Ma	Microbial evolution in spatially-structured environments — ●ARJAN DE VISSER
SKM-SYBE 1.2	Fri	11:00–11:30	TRE Ma	Correlated mutations: Facts or artifacts? — ●AMNON HOROVITZ
SKM-SYBE 1.3	Fri	11:30–12:00	TRE Ma	Macroscopic laws in bacterial genome evolution — ●ERIK VAN NIMWEGEN
SKM-SYBE 1.4	Fri	12:00–12:30	TRE Ma	The role of horizontal gene transfer in the evolution of bacterial genomes — ●PAUL HIGGS

Invited talks of focus session “Dense granular flow”

DY 1.1	Mon	10:15–10:45	HÜL 186	Dense Inclined Flows of Granular Materials — ●JAMES JENKINS
DY 1.2	Mon	10:45–11:15	HÜL 186	Shear localization and shear alignment in granular flows — ●TAMÁS BÖRZSÖNYI, BALÁZS SZABÓ, GÁBOR TÖRÖS, JIM N. MCELWAIN, ROBERT E. ECKE, SANDRA WEGNER, RALF STANNARIUS
DY 1.3	Mon	11:15–11:45	HÜL 186	Flow of dense granular suspensions: an experimental study. — ●ANKE LINDNER, CLAIRE BONNOIT, ERIC CLEMENT
DY 1.4	Mon	12:00–12:30	HÜL 186	Erosion and mobility in granular avalanches over sloping beds — ●ANNE MANGENEY, OLIVIER ROCHE, OLDRICH HUNGR, NICOLAS MANGOLD
DY 1.5	Mon	12:30–13:00	HÜL 186	Confined granular materials: stability, chute flows and grain motion — ●PATRICK RICHARD, JEAN-FRANCOIS METAYER, ALEXANDRE VALANCE, RENAUD DELANNAY
DY 1.6	Mon	13:00–13:30	HÜL 186	Convection and segregation of granular mixtures in almost filled containers — ●RALF STANNARIUS, FRANK RIETZ

Invited talks of focus session “Statistical physics and thermodynamics of small systems”

DY 11.1	Tue	10:00–10:30	HÜL 186	Doing small systems: Concepts, Role of Ensembles, Thermalization and Fluctuation Theorems — ●PETER HÄNGGI
DY 11.2	Tue	10:30–11:00	HÜL 186	Microcanonical singularities in finite systems — ●JÖRN DUNKEL, STEFAN HILBERT
DY 11.3	Tue	11:00–11:30	HÜL 186	Recent progress in fluctuation theorems and free energy recovery — ●FELIX RITORT
DY 11.4	Tue	11:45–12:15	HÜL 186	Efficiencies and fluctuations in small out-of-equilibrium devices — ●MASSIMILIANO ESPOSITO
DY 11.5	Tue	12:15–12:45	HÜL 186	Quantum Fluctuation Theorems — ●MICHELE CAMPISI
DY 11.6	Tue	12:45–13:15	HÜL 186	Time-reversal symmetry relations: From the multibaker map to open quantum systems — ●PIERRE GASPARD

Invited talks of the joint focus session “GPU computing” (with SOE)

DY 7.1	Mon	14:00–14:30	GÖR 226	Applications of GPU-Computing in Statistical Physics — ●PETER VIRNAU
DY 7.2	Mon	14:30–15:00	GÖR 226	Accelerating Monte Carlo Simulations in Statistical Physics with GPU’s — ●DAVID LANDAU, JUNQI YIN

Invited talks of the joint focus session “Computational polymer physics - new developments” (with CPP)

DY 24.1	Wed	14:00–14:30	MOL 213	Multiscale Simulation of Soft Matter: Challenges — ●FLORIAN MÜLLER-PLATHE
DY 24.2	Wed	14:30–15:00	MOL 213	A self-consistent field approach for crosslinked polymer materials — ●FRIEDERIKE SCHMID
DY 24.3	Wed	15:00–15:30	MOL 213	Mechanical separation of short double stranded DNA: Effect of pulling geometry — ●SANJAY KUMAR
DY 24.4	Wed	15:45–16:15	MOL 213	Soft coarse-grained models for multi-component polymer melts — ●MARCUS MÜLLER
DY 24.5	Wed	16:15–16:45	MOL 213	Simulations of Polymer Electrolytes for Lithium-Ion Batteries Highly Accurate Polarizable Potentials — ●GRANT SMITH

Sessions

DY 1.1–1.6	Mon	10:15–13:30	HÜL 186	Focus Session: Dense Granular Flow
DY 2.1–2.10	Mon	10:15–13:15	ZEU 255	Statistical Physics (general)
DY 3.1–3.9	Mon	10:15–13:00	ZEU 250	Statistical Physics in Biological Systems I (organised by BP)

DY 4.1–4.8	Mon	10:30–13:00	HSZ 03	Graphene I (organised by TT)
DY 5.1–5.11	Mon	14:00–17:00	HÜL 186	Statistical Physics of Biological Systems II (organised by DY)
DY 6.1–6.10	Mon	14:00–17:00	ZEU 255	Quantum Dynamics, Decoherence, and Quantum Information I
DY 7.1–7.2	Mon	14:00–15:00	GÖR 226	Focus Session: GPU Computing (with SOE)
DY 8.1–8.3	Mon	15:00–15:45	GÖR 226	Focus Session: GPU Computing - Contributed Talks
DY 9.1–9.16	Mon	14:00–18:30	HSZ 304	Graphene II (organised by TT)
DY 10.1–10.47	Mon	17:00–19:00	P4	Posters I
DY 11.1–11.6	Tue	10:00–13:15	HÜL 186	Focus Session: Thermodynamics and Statistical Physics of Small Systems
DY 12.1–12.10	Tue	10:15–13:15	ZEU 255	Quantum Dynamics, Decoherence, and Quantum Information II
DY 13.1–13.9	Tue	10:15–12:45	ZEU 118	Fluid Dynamics and Turbulence I
DY 14.1–14.5	Tue	14:00–15:15	ZEU 255	Delay Dynamics
DY 15.1–15.30	Tue	18:00–20:00	P1	ISPS Intersectional Poster Session
DY 16.1–16.4	Wed	10:30–11:30	HÜL 186	Statistical Physics II
DY 17.1–17.10	Wed	10:15–13:15	ZEU 255	Nonlinear Dynamics I
DY 18.1–18.1	Wed	10:15–10:45	GÖR 226	Networks: From Topology to Dynamics I (with BP, SOE)
DY 19.1–19.9	Wed	10:45–13:15	GÖR 226	Networks: From Topology to Dynamics II (with BP, SOE)
DY 20.1–20.11	Wed	10:15–13:00	KÖN Farb	Glasses I (jointly with DF and CPP)
DY 21.1–21.6	Wed	11:45–13:15	HÜL 186	Thermodynamics and Statistical Physics of Small Systems (contributed talks)
DY 22.1–22.15	Wed	14:00–18:00	HÜL 186	Granular Matter/ Contact Dynamics
DY 23.1–23.8	Wed	14:00–16:15	ZEU 255	Nonlinear Waves/ Nonlinear Lattices
DY 24.1–24.5	Wed	14:00–16:45	MOL 213	Focus Session: Computational Polymer Physics - New Developments (jointly with CPP)
DY 25.1–25.6	Wed	15:30–17:00	GÖR 226	Networks: From Topology to Dynamics III (with BP, SOE)
DY 26.1–26.7	Wed	16:30–18:15	ZEU 255	Nonlinear Dynamics II
DY 27.1–27.6	Wed	16:30–18:00	HSZ 02	ISS Transport and Localization of Interacting Bosons I
DY 28.1–28.11	Thu	10:15–13:15	HÜL 186	Statistical Physics far from Equilibrium
DY 29.1–29.9	Thu	10:15–12:30	ZEU 255	Quantum Chaos I
DY 30.1–30.9	Thu	10:15–12:30	ZEU 118	Reaction-Diffusion Systems
DY 31.1–31.7	Thu	10:45–13:00	ZEU 114	Glasses and Glass Transition (jointly with CPP, DF)
DY 32.1–32.9	Thu	10:15–13:00	ZEU 260	Statistical Physics in Biological Systems III (organised by BP)
DY 33.1–33.10	Thu	14:00–17:00	HÜL 186	Brownian Motion, Stochastic Processes, Transport I
DY 34.1–34.8	Thu	14:00–16:15	ZEU 255	Fluid Dynamics and Turbulence II
DY 35.1–35.6	Thu	14:30–16:00	BAR Schön	ISS Transport and Localization of interacting Bosons II
DY 36.1–36.10	Thu	14:00–16:45	ZEU 260	Statistical Physics in Biological Systems IV (organised by BP)
DY 37.1–37.5	Thu	16:00–17:15	ZEU 118	Quantum Chaos II
DY 38.1–38.2	Thu	16:30–17:00	ZEU 255	Data Analysis and Stochastic Modeling I (jointly with UP)
DY 39.1–39.6	Thu	17:00–18:30	ZEU 255	Data Analysis and Stochastic Modeling II (jointly with UP)
DY 40.1–40.42	Thu	17:00–19:00	P3	Posters II
DY 41.1–41.11	Fri	10:15–13:15	HÜL 186	Brownian Motion, Stochastic Processes, Transport II
DY 42.1–42.10	Fri	10:15–12:45	ZEU 255	Critical Phenomena and Phase Transitions
DY 43.1–43.9	Fri	10:15–12:30	ZEU 118	Soft Matter

Annual General Meeting of the Dynamics and Statistical Physics Division

Donnerstag, 17.3.2011 19:15–20:00 HÜL 186

- Bericht
- Verschiedenes