

Biological Physics Division Fachverband Biologische Physik (BP)

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Overview of Invited Talks and Sessions (lecture rooms HÜL 186 and ZEU 260, Poster P3 (ZEU 250))

Invited Talks

BP 1.1	Mon	10:15–10:45	HÜL 186	Taming a Heart Gone Wild — ●STEFAN LUTHER
BP 8.1	Tue	9:30–10:00	HÜL 186	Robustness and Scaling in Embryonic Development — ●NAAMA BARKAI
BP 8.2	Tue	10:00–10:30	HÜL 186	The R8 race: Specifying photoreceptor cells in the developing fly eye — ●DAVID LUBENSKY
BP 10.1	Tue	14:00–14:30	HÜL 186	Biohydrodynamics of biomimetic and bacterial flagella — ●HOLGER STARK
BP 12.1	Wed	9:30–10:00	HÜL 186	Conformational Mechanics of Single Protein Molecules — ●MATTHIAS RIEF
BP 12.2	Wed	10:00–10:30	HÜL 186	Illuminating the way Kinesin-1 walks using FRET between the motor domains — ●ERWIN PETERMAN
BP 14.1	Wed	14:00–14:30	HÜL 186	Nerve signals as density pulses, conduction events, and the role of anesthetics — ●THOMAS HEIMBURG
BP 18.1	Thu	9:30–10:00	HÜL 186	Systems biology of yeast cell signaling and response to stress — ●EDDA KLIPP
BP 18.2	Thu	10:00–10:30	HÜL 186	Towards an understanding of membrane and protein traffic in living cells — ●MATTHIAS WEISS
BP 20.1	Thu	14:00–14:30	HÜL 186	Artificial biochemical reaction circuits based on DNA and RNA — ●FRIEDRICH SIMMEL, EIKE FRIEDRICHS, RALF JUNGSMANN
BP 25.1	Fri	10:15–10:45	HÜL 186	Role of membrane curvature in membrane trafficking — ●PATRICIA BASSEREAU, BENOIT SORRE, ANDREW CALLAN-JONES, GERBRAND KOSTER, AURÉLIEN ROUX, MARTIN LENZ, JEAN-FRANÇOIS JOANNY, JACQUES PROST

Invited Talk of the session BP 6 (joint session DY/BP)

DY 4.1	Mon	14:00–14:30	HÜL 386	Mechanisms of tissue maintenance: a laboratory for statistical physics — ●BENJAMIN SIMONS
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Invited Talks of the joint symposium SYSO

See SYSO for the full program of the Symposium. Note also in particular the session SYSO IV, Thursday, 11:00-12:30, GÖR 226.

SYSO 1.1	Wed	14:00–14:30	BAR SCHÖ	Pattern formation in epitaxial growth and ion beam erosion — ●THOMAS MICHELY
SYSO 1.2	Wed	14:30–15:00	BAR SCHÖ	Patterns and Pathways in Far-from-equilibrium Nanoparticle Assemblies — ●PHILIP MORIARTY, ANDREW STANNARD, EMMANUELLE PAULIAC-VAUJOUR, MATTHEW BLUNT, CHRIS MARTIN, IOAN VANCEA, UWE THIELE

SYSO 1.3	Wed	15:00–15:30	BAR SCHÖ	Block-Copolymer Derived Inorganic Functional Materials — •ULLRICH STEINER
SYSO 2.1	Wed	15:45–16:15	BAR SCHÖ	Crystallisation of polymers at surfaces and in thin films — •GÜNTER REITER
SYSO 2.2	Wed	16:15–16:45	BAR SCHÖ	Active Organisation of Cell Surface Molecules by Cortical Actin — KRIPA GOWRISHANKAR, DEBANJAN GOSWAMI, SUBHASRI GHOSH, ABHISHEK CHAUDHURI, BHASWATI BHATTACHARYA, SATYAJIT MAYOR, •MADAN RAO
SYSO 2.3	Wed	16:45–17:15	BAR SCHÖ	Phase Behaviour and Dynamics in Lipid Mixtures — •PETER OLMSTED

Invited Talks of the joint symposium SYCS

See SYCS for the full program of the Symposium.

SYCS 1.1	Fri	10:15–11:00	BAR SCHÖ	Eat, Drink, and Be Merry: The Spread of Health Phenomena in Complex, Longitudinally Resolved Social Networks — •NICHOLAS CHRISTAKIS
SYCS 1.2	Fri	11:00–11:30	BAR SCHÖ	Transport efficiency and resilience in mycelial networks — •MARK FRICKER, DANIEL BEBBER, LYNNE BODDY
SYCS 1.3	Fri	11:30–12:00	BAR SCHÖ	From genetic variability between species to the inference of protein-protein interactions — •MARTIN WEIGT, ROBERT A. WHITE, HENDRIK SZURMANT, JAMES A. HOCH, TERRENCE HWA
SYCS 1.4	Fri	12:00–12:30	BAR SCHÖ	Clustering and multiscale structure of graphs — •BOAZ NADLER
SYCS 1.5	Fri	12:30–13:00	BAR SCHÖ	Clustering, chance, and statistical mechanics — MARTA LUKSZA, MICHAEL LÄSSIG, •JOHANNES BERG
SYCS 1.6	Fri	13:00–13:30	BAR SCHÖ	Physics of recommendation mechanisms — •YI-CHENG ZHANG

Sessions

BP 1.1–1.10	Mon	10:15–13:15	HÜL 186	Dynamic Processes and Pattern Formation
BP 2.1–2.9	Mon	11:00–13:15	ZEU 260	Biopolymers and Biomaterials (joint session BP/ CPP)
BP 3	Mon	11:00–13:00	ZEU 255	Statistical Physics in Biological Systems I (joint session DY/BP)
BP 4.1–4.9	Mon	14:30–17:00	HÜL 186	Cell Mechanics
BP 5.1–5.9	Mon	14:30–17:00	ZEU 260	Proteins
BP 6	Mon	14:00–16:45	HÜL 386	Statistical Physics in Biological Systems II (joint session DY/BP)
BP 7.1–7.62	Mon	17:45–20:00	P3	Poster I
BP 8.1–8.11	Tue	9:30–13:00	HÜL 186	Developmental Processes
BP 9.1–9.9	Tue	10:45–13:15	ZEU 260	Actin Dynamics
BP 10.1–10.9	Tue	14:00–16:30	HÜL 186	Biofluidynamics
BP 11.1–11.8	Tue	14:30–16:30	ZEU 260	Novel Methods
BP 12.1–12.12	Wed	9:30–13:15	HÜL 186	Single Molecules
BP 13.1–13.9	Wed	10:45–13:15	ZEU 260	Cell Migration
BP 14.1–14.11	Wed	14:00–17:15	HÜL 186	Neuronal and Sensory Systems
BP 15.1–15.5	Wed	14:30–15:45	ZEU 260	Motor Proteins
BP 16.1–16.5	Wed	16:00–17:15	ZEU 260	Stochastic Processes
BP 17.1–17.46	Wed	17:15–19:45	P3	Poster II
BP 18.1–18.12	Thu	9:30–13:15	HÜL 186	Regulation and Signaling
BP 19.1–19.9	Thu	10:45–13:15	ZEU 260	Cell Adhesion
BP 20.1–20.11	Thu	14:00–17:15	HÜL 186	DNA, RNA and Chromatin
BP 21.1–21.5	Thu	17:30–18:45	HÜL 186	Population Dynamics and Evolution
BP 22.1–22.9	Thu	14:30–17:00	ZEU 260	Transport Processes and Cellular Trafficking
BP 23.1–23.6	Thu	17:15–18:45	ZEU 260	Physics of Bacteria and Viruses
BP 24	Thu	14:30–17:30	ZEU 114	Biopolymers (joint session CPP/BP)
BP 25.1–25.10	Fri	10:15–13:15	HÜL 186	Membranes
BP 26.1–26.8	Fri	11:00–13:00	ZEU 260	Photobiophysics

Annual General Meeting of the Biological Physics Division

Thursday 19:00–20:00 HÜL 186

- Bericht
- Wahl
- Verschiedenes