

Biological Physics Division Fachverband Biologische Physik (BP)

Frank Jülicher
Max-Planck-Institut für Physik
komplexer Systeme
Nöthnitzer Straße 38
01187 Dresden
julicher@pks.mpg.de

Christoph F. Schmidt
Universität Göttingen
Drittes Physikalisches Institut
Friedrich-Hund-Platz 1
37077 Göttingen
C.F.Schmidt@DPI.Physik.Uni-
Goettingen.de

Petra Schwille
Biotechnologisches Zentrum der TU
Dresden
Tatzberg 47-51
01307 Dresden
petra.schwille@biotec.tu-dresden.de

Overview of Invited Talks and Sessions

(lecture rooms C 243 and PC 203; Poster A)

Invited Talks

BP 1.1	Mon	9:30–10:00	C 243	Chemotaxis and Cell Migration: Sensing and Intracellular Dynamics — •EBERHARD BODENSCHATZ, CARSTEN BETA, ALBERT BAE, GABRIEL AMSELEM
BP 1.2	Mon	10:00–10:30	C 243	Regulation of Growth during Development: Role of Mechanics — •LARS HUFNAGEL
BP 3.1	Mon	14:00–14:30	C 243	How to Take a Quick Look—Rapid Neural Coding of Visual Information in the Retina — •TIM GOLLISCH
BP 8.1	Tue	9:30–10:00	C 243	Active stress fluctuations in biopolymer networks driven by molecular motors — •GIJSJE H. KOENDERINK, MARINA SOARES E SILVA, FREDERICK C. MACKINTOSH
BP 8.2	Tue	10:00–10:30	C 243	Regulation of microtubule sliding by antagonizing microtubule motors and crosslinkers — •MARCEL JANSON
BP 20.1	Thu	9:30–10:00	C 243	Modeling noisy concentration gradients inside single cells — FILIPE TOSTEVIN, PIETER TEN WOLDE, •MARTIN HOWARD
BP 20.2	Thu	10:00–10:30	C 243	Non-equilibrium dynamics of gene expression — •JOHANNES BERG
BP 24.1	Thu	14:00–14:30	C 243	A biochemical reconstitution approach of the coordinated actin assembly dynamics in motile and morphogenetic processes. — •MARIE-FRANCE CARLIER, LOUIS RENAULT, GUILLAUME ROMET-LEMONNE, EM-MANUELE HELFER, BEATA BUGYI, KIM HO DIEP LE, DOMINIQUE DIDRY, STÉPHANE ROMERO
BP 27.1	Fri	10:15–10:45	C 243	Secretion of protein-coated vesicles — •PIERRE SENS

Invited talks of the joint symposium 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

Invited talks of the joint symposium 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

Invited talks of the joint symposium 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

BP 1.1–1.11	Mon	9:30–13:00	C 243	Cell Migration and Tissue Dynamics
BP 2.1–2.10	Mon	10:30–13:15	PC 203	DNA and Chromatin
BP 3.1–3.11	Mon	14:00–17:15	C 243	Neuronal Systems
BP 4.1–4.6	Mon	14:30–16:00	PC 203	Novel Methods
BP 5.1–5.4	Mon	16:15–17:15	PC 203	Photobiophysics
BP 6	Mon	14:30–16:45	MA 001	Statistical Physics in Biological Systems (joint session DY/BP)
BP 7.1–7.54	Mon	17:00–19:30	Poster A	Posters I
BP 8.1–8.11	Tue	9:30–13:00	C 243	Active Filament Networks
BP 9.1–9.9	Tue	10:30–13:00	PC 203	Membranes and Interfaces
BP 10.1–10.4	Tue	14:00–15:00	C 243	Self Propulsion
BP 11.1–11.8	Tue	15:15–17:15	C 243	Transport Processes
BP 12.1–12.5	Tue	17:30–18:45	C 243	Cellular Force Generation
BP 13.1–13.6	Tue	17:15–18:45	PC 203	Biopolymers
BP 14	Tue	17:00–19:00	C 230	Single Molecules (joint session CPP/BP)
BP 15.1–15.12	Wed	14:00–17:15	C 243	Single Molecules
BP 16.1–16.6	Wed	17:30–19:00	C 243	Pattern Formation and Developmental Processes
BP 17.1–17.7	Wed	14:00–15:45	PC 203	Physics of Cells
BP 18.1–18.5	Wed	16:00–17:15	PC 203	Biomaterials
BP 19.1–19.8	Wed	17:30–19:30	PC 203	Semiflexible Polymers and Networks
BP 20.1–20.8	Thu	9:30–12:00	C 243	Regulation and Signaling
BP 21.1–21.4	Thu	12:15–13:15	C 243	Population Dynamics and Evolution
BP 22.1–22.5	Thu	10:30–11:45	PC 203	Cell Mechanics
BP 23.1–23.5	Thu	12:00–13:15	PC 203	Electrical Stimulation and Recording
BP 24.1–24.9	Thu	14:00–16:45	C 243	Actin Dynamics
BP 25.1–25.10	Thu	14:30–17:00	PC 203	Protein Structure and Folding
BP 26.1–26.55	Thu	17:00–19:30	Poster A	Posters II
BP 27.1–27.8	Fri	10:15–12:45	C 243	Membrane Morphology and Adhesion
BP 28.1–28.8	Fri	10:45–12:45	PC 203	Molecular Recognition

Annual General Meeting of the Biological Physics Division

Tuesday 19:00–20:00 C 243

- Bericht