

Section Biological Physics Fachverband Biologische Physik (BP)

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Overview of Invited Talks and Sessions

(lecture rooms H43 and H44; Poster B and D)

Invited Talks

BP 1.1	Mon	9:30–10:00	H43	Physical Aspects of Evolutionary Transitions to Multicellularity — •RAYMOND GOLDSTEIN
BP 1.2	Mon	10:00–10:30	H43	Surfing genes: On the fate of neutral mutations in spreading populations — •OSKAR HALLATSCHKEK, DAVID NELSON
BP 3.1	Mon	14:00–14:30	H43	On the Timescales of Membrane Fusion — •RUMIANA DIMOVA
BP 5.1	Mon	10:30–11:00	H44	Force induced strengthening of binding domains in specifically adhered vesicles — •ANA-SUNCANA SMITH
BP 9.1	Tue	9:30–10:00	H43	Single molecule recognition in regulatory systems — •ROBERT ROS
BP 9.2	Tue	10:00–10:30	H43	Transcription by RNA Polymerase II — •STEPHAN GRILL, ERIC GALBURT, MARTIN DEPKEN, CARLOS BUSTAMANTE
BP 10.1	Tue	14:00–14:30	H43	Supercoils and their Removal — •NYNKE DEKKER
BP 12.1	Tue	10:30–11:00	H44	The first micro seconds in the life of a nerve impulse — •FRED WOLF
BP 22.1	Thu	9:30–10:00	H43	DNA-based molecular machines and synthetic biology — •FRIEDRICH SIM- MEL
BP 22.7	Thu	11:30–12:00	H43	From biological towards artificial Molecular Machines — •THORSTEN HUGEL
BP 23.1	Thu	14:00–14:30	H43	The Physics of Neuronal Growth — •TIMO BETZ, DANIEL KOCH, JOSEF KÄS
BP 25.1	Thu	14:30–15:00	H44	Mechanical amplification by sensory hair cells from the vertebrate ear — •PASCAL MARTIN
BP 27.1	Fri	10:30–11:00	H43	From target search to travel bugs: scale free motion in biology — •DIRK BROCKMANN

Invited talks of the joint symposium SYBM

See SYBM for the full program of the Symposium.

SYBM 1.1	Thu	9:30–10:00	H1	Using Ice to Mimic Nacre: From Structural Materials to Artificial Bone — •A. P. TOMSIA, S. DEVILLE, E. SAIZ
SYBM 1.2	Thu	10:00–10:30	H1	On the structure of biogenic CaCO₃ — •B. POKROY
SYBM 1.3	Thu	10:30–11:00	H1	Bio-Inspired Hybrid Materials from Block Copolymer Assemblies and Nanoparticle Co-assemblies — •U. WIESNER
SYBM 1.4	Thu	11:15–11:45	H1	Bio-Inspired Organic-inorganic Hybrid Materials — •U. STEINER
SYBM 1.5	Thu	11:45–12:15	H1	Structural, Nanomechanical, and Nanotribological Characterization of Human Hair Using Atomic Force Microscopy and Nanoindentation — •BHARAT BHUSHAN

Invited talks of the joint symposium SYNf

See SYNf for the full program of the Symposium.

SYNF 1.1	Wed	14:45–15:15	H1	Depolymerization of microtubules by kinesins — ●JONATHON HOWARD
SYNF 1.2	Wed	15:15–15:45	H1	Hydra Molecular Network Reaches Criticality at the Symmetry-Breaking Axis-Defining Moment — JORDI SORIANO, CYRIL COLOMBO, ●ALBRECHT OTT
SYNF 1.3	Wed	15:45–16:15	H1	Morphogen Transport in Epithelia — ●TOBIAS BOLLENBACH
SYNF 1.4	Wed	16:15–16:45	H1	Flocks, Herds and Schools - Physical Models of Animal Motion — ●UDO ERDMANN
SYNF 1.5	Wed	16:45–17:15	H1	Nonlinear transport processes in large-scale ecological networks — ●BERND BLASIUS

Invited talks of the joint symposium SYPE

See SYPE for the full program of the Symposium.

SYPE 2.1	Thu	14:00–14:30	H37	Coulomb and Flory: Fathers of SONS. Polyelectrolytes in Self Organized Nano Systems — ●MARTIEN COHEN STUART
SYPE 2.7	Thu	16:00–16:30	H37	Bundling Phenomena in Semiflexible Polyelectrolytes — ●CHRISTIAN HOLM, MEHMET SAYAR, BERK HESS
SYPE 3.1	Fri	10:30–11:00	H1	Behaviour of polyelectrolyte solutions under confinement — ●DOMINIQUE LANGEVIN, CÉSAR MARQUEZ, HEINIG PETER, DAN QU
SYPE 3.4	Fri	11:30–12:00	H1	Polymers at Surfaces: Sticking and Gliding — ●ROLAND NETZ

Sessions

BP 1.1–1.7	Mon	9:30–12:00	H43	Evolutionary and Population Dynamics
BP 2.1–2.4	Mon	12:15–13:15	H43	Protein Function
BP 3.1–3.12	Mon	14:00–17:15	H43	Membranes and Interfaces
BP 4.1–4.8	Mon	17:30–19:30	H43	Protein Structure and Folding
BP 5.1–5.8	Mon	10:30–13:00	H44	Cell Adhesion
BP 6.1–6.6	Mon	14:30–16:00	H44	Biopolymer Conformation and Dynamics
BP 7.1–7.7	Mon	16:15–18:00	H44	Fibers and Bundles
BP 8.1–8.6	Mon	18:00–19:30	H44	Charge Transfer
BP 9.1–9.11	Tue	9:30–13:00	H43	Regulation and Signaling
BP 10.1–10.6	Tue	14:00–15:45	H43	DNA: supercoils, knots and melting
BP 11.1–11.5	Tue	16:00–17:15	H43	Micro- and Nanofluidics
BP 12.1–12.6	Tue	10:30–12:15	H44	Neuroscience
BP 13.1–13.3	Tue	12:30–13:15	H44	Photobiophysics
BP 14.1–14.3	Tue	14:30–15:15	H44	Chemotaxis
BP 15.1–15.8	Tue	15:15–17:15	H44	Biopolymer Solutions and Networks
BP 16.1–16.58	Tue	17:00–19:30	Poster D	Poster Session I
BP 17	Wed	14:30–17:15	H1	Symposium Nonlinear and Anomalous Transport in Complex Systems (SYNF)
BP 18.1–18.5	Wed	14:00–15:15	H43	Functionalized Nanoparticles
BP 19.1–19.7	Wed	15:30–17:15	H43	Biosensors and Biofunctionalized Systems
BP 20.1–20.3	Wed	17:30–18:15	H43	Novel Methods
BP 21.1–21.4	Wed	18:15–19:15	H43	High-Throughput Data and their Analysis
BP 22.1–22.12	Thu	9:30–13:15	H43	Molecular Machines
BP 23.1–23.11	Thu	14:00–17:00	H43	Cell Motility and Migration (in vitro and in vivo)
BP 24.1–24.10	Thu	10:00–12:45	H44	Cell Mechanics (in vivo)
BP 25.1–25.9	Thu	14:30–17:00	H44	Oscillatory Systems
BP 26.1–26.49	Thu	17:00–19:30	Poster B	Poster Session II
BP 27.1–27.8	Fri	10:30–12:45	H43	Nonequilibrium Processes and Self-Organisation
BP 28.1–28.6	Fri	11:00–12:30	H44	Biomedical Applications

Annual General Meeting of the Section Biological Physics

Dienstag 19:30–20:30 H43

- Bericht

- Wahl
- Topics und Symposia 2008