Biological Physics Division
Fachverband Biologische Physik (BP)

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Overview of Invited Talks and Sessions

(lecture rooms ZEU 250 and ZEU 260; poster P3)

Plenary Talks related to BP

PV III	Mon	9:15–10:00	HSZ01	**Linear and Non-linear Mechanics of Biopolymer Networks** — •David A. Weitz
PV XIII	Tue	8:30– 9:15	HSZ01	**Pushing the Envelope in Biological Imaging** — •Eric Betzig

Invited Talks

BP 1.1	Mon	10:15–10:45	ZEU 250	**High throughput microscopy for systems biology: from genome-wide profiling to the analysis of protein complexes** — •Jan Ellenberg
BP 2.1	Mon	10:15–10:45	ZEU 260	**Protein Structure and Dynamics from Low-Resolution Data** — •Gunnar F. Schröder
BP 4.1	Mon	14:00–14:30	ZEU 260	**Single-molecule detection of DNA repair in real-time** — •Terence Strick
BP 5.1	Mon	14:00–14:30	ZEU 250	**Are biomechanical changes necessary for tumor progression? - The impact of cell mechanics on cancer development** — •Mareike Zink
BP 15.1	Tue	10:15–10:45	ZEU 250	**Single-molecule mechanics: theory, analysis, interpretation** — •Olga Dudko
BP 16.1	Tue	10:15–10:45	ZEU 260	**The dynamic organization in the membrane of a G-protein-coupled receptor is related to its functional state** — •Laurence Salomé
BP 18.1	Tue	14:00–14:30	ZEU 250	**Amyloid at the nanoscale: single molecule and ensemble studies of amyloid-lipid interactions** — •Vinod Subramaniam
BP 20.1	Wed	10:15–10:45	ZEU 250	**Quantitative universality and non-local interactions in neural pattern formation** — •Matthias Kaschube
BP 21.1	Wed	10:15–10:45	ZEU 260	**Stretching Proteins out of equilibrium: how extracellular matrix proteins serve as mechanotransducers** — •Viola Vogel
BP 22.1	Wed	15:00–15:30	ZEU 250	**The interplay between actin dynamics and membrane tension determines the shape of moving cells** — •Kinneret Keren
BP 25.1	Thu	10:15–10:45	ZEU 260	**Bacterial Games** — •Erwin Frey
BP 27.1	Thu	14:00–14:30	ZEU 250	**Inelastic Mechanics of Biopolymer Networks** — •Klaus Kroy
BP 33.1	Fri	10:15–10:45	ZEU 250	**Clamping DNA Strands Together: The Mechanics of Single-strand Annealing** — •Erik Schäffer
BP 34.1	Fri	10:15–10:45	ZEU 260	**Super-resolution fluorescence imaging of cellular structure and dynamics** — •Markus Sauer

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

Sessions

BP 1.1–1.9	Mon	10:15–13:00	ZEU 250	**Statistical Physics in Biological Systems I (joint DY, BP)**
BP 2.1–2.9	Mon	10:15–13:00	ZEU 260	**Protein Structure & Dynamics**
BP 3.1–3.9	Mon	10:30–13:00	ZEU 222	**Biopolymers and Biomaterials I (with CPP)**
BP 4.1–4.10	Mon	14:00–17:00	ZEU 260	**DNA & DNA Enzymes**
BP 5.1–5.9	Mon	14:00–16:45	ZEU 250	**Tissue Dynamics & Developmental Processes**
BP 6.1–6.11	Mon	14:00–17:00	HÜL 186	**Statistical Physics of Biological Systems II (joint DY, BP)**
BP 7.1–7.25	Mon	17:15–20:00	P3	**Posters: Statistical Physics in Biological Systems**
BP 8.1–8.9	Mon	17:15–20:00	P3	**Posters: Protein Structure & Dynamics**
BP 9.1–9.9	Mon	17:15–20:00	P3	**Posters: DNA & DNA Enzymes**
BP 10.1–10.13	Mon	17:15–20:00	P3	**Posters: Tissue Dynamics & Developmental Processes**
BP 11.1–11.14	Mon	17:15–20:00	P3	**Posters: Single-Molecule Biophysics**
BP 12.1–12.18	Mon	17:15–20:00	P3	**Posters: New Technologies**
BP 13.1–13.17	Mon	17:15–20:00	P3	**Posters: Biological Membranes**
BP 14.1–14.3	Mon	17:15–20:00	P3	**Posters: Neurobiophysics, Theoretical Neuroscience, Sensory Transduction**
BP 15.1–15.9	Tue	10:15–13:00	ZEU 250	**Single-Molecule Biophysics I**
BP 16.1–16.9	Tue	10:15–13:00	ZEU 260	**Biological Membranes I**
BP 17.1–17.3	Tue	10:30–12:10	HSZ 201	**Biophysics I: Bionics and Biomaterials (joint AG jDPG, BP)**
BP 18.1–18.4	Tue	14:00–15:15	ZEU 250	**Single-Molecule Biophysics II**
BP 19.1–19.5	Tue	14:00–15:15	ZEU 260	**Biological Membranes II**
BP 20.1–20.9	Wed	10:15–13:00	ZEU 250	**Neurobiophysics**
BP 21.1–21.9	Wed	10:15–13:00	ZEU 260	**Biopolymers and Biomaterials II (with CPP)**
BP 22.1–22.9	Wed	15:00–17:45	ZEU 250	**Physics of Cells I**
BP 23.1–23.10	Wed	15:00–17:45	ZEU 260	**Biopolymers and Biomaterials III (with CPP)**
BP 24.1–24.10	Thu	10:15–13:00	ZEU 250	**Physics of Cells II**
BP 25.1–25.9	Thu	10:15–13:00	ZEU 260	**Statistical Physics in Biological Systems III (joint DY, BP)**
BP 26.1–26.2	Thu	10:30–11:30	HSZ 201	**Biophysics II: Mechanics and Flow in Biological Systems (joint AG jDPG, BP)**
BP 27.1–27.10	Thu	14:00–17:00	ZEU 250	**Physics of Cells III**
BP 28.1–28.10	Thu	14:00–16:45	ZEU 260	**Statistical Physics in Biological Systems IV (joint DY, BP)**
BP 29.1–29.27	Thu	17:15–20:00	P3	**Posters: Biopolymers & Biomaterials**
BP 30.1–30.33	Thu	17:15–20:00	P3	**Posters: Physics of Cells**
BP 31.1–31.4	Thu	17:15–20:00	P3	**Posters: Biological Machines & Motor Proteins**
BP 32.1–32.9	Thu	17:15–20:00	P3	**Posters: Other Topics in Biological Physics**
BP 33.1–33.9	Fri	10:15–13:00	ZEU 250	**Biological Machines & Motor Proteins**
BP 34.1–34.9	Fri	10:15–13:00	ZEU 260	**New Technologies**
BP 35.1–35.4	Fri	10:30–12:30	TRE Ma	**SYBE: Statistical Physics and Biological Evolution**

Annual General Meeting of the Biological Physics Division

Wednesday 18:00–19:00 ZEU 260

- Bericht
- Wahl des Stellvertretenden Sprechers
- Verschiedenes