

**BIOLOGICAL PHYSICS**

BIOLOGISCHE PHYSIK (AKB)

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**OVERVIEW OF INVITED TALKS AND SESSIONS**

(lecture rooms ZEU 255, ZEU 260)

**Invited Talks**

AKB 1.1	Mon	09:45	(ZEU 255)	<b>Biophysics of Cells: Active Matter in Motion</b> , <a href="#">Frank Jülicher</a>
AKB 3.1	Mon	11:30	(ZEU 255)	<b>Symmetry Breaking and Elastic Deformations drive Actin-Based Movement</b> , <a href="#">Ewa Paluch</a> , Jasper van der Gucht, Jean-François Joanny, Cécile Sykes
AKB 5.1	Mon	14:00	(ZEU 255)	<b>Cell motility as persistent random motion: theories from experiments</b> , <a href="#">Henrik Flyvbjerg</a> , David Selmeczi, Stephan Mosler, Peter H. Hagedorn, Niels B. Larsen
AKB 7.1	Tue	09:45	(ZEU 255)	<b>Cytoskeletal Polymerization Motors</b> , <a href="#">Marileen Dogterom</a>
AKB 10.1	Tue	11:30	(ZEU 255)	<b>Synaptic Plasticity and Memory from an Optimality Viewpoint</b> , <a href="#">Wulfram Gerstner</a> , Taro Toyozumi, Jean-Pascal Pfister, Kazuyuki Aihara
AKB 12.1	Tue	14:00	(ZEU 255)	<b>Transport and Reaction-Diffusion Phenomena in Soft-Matter Nanofluidic Devices</b> , <a href="#">Owe Orwar</a>
AKB 14.1	Tue	16:00	(ZEU 255)	<b>Single-molecules at work - Deciphering the mechanism of a molecular motor</b> , <a href="#">Jens Michaelis</a> , Yann Chemla, K. Athavan, Thorsten Hugel, Carlos Bustamante
AKB 16.1	Wed	14:00	(ZEU 255)	<b>Biological Networks: Design Principles of Robust Information Processing</b> , <a href="#">Markus Kollmann</a>
AKB 18.1	Wed	15:30	(ZEU 255)	<b>Synthetic Analogues of Biological Voltage-Gated Channels, Fabrication of Ion-Current Rectifiers and Protein Sensors</b> , <a href="#">Zuzanna Siwy</a>
AKB 20.1	Thu	09:45	(ZEU 255)	<b>DNA self-assembly: nanostructures and molecular machines</b> , <a href="#">Andrew Turberfield</a>
AKB 20.2	Thu	10:15	(ZEU 255)	<b>Synthesis, properties and perspectives of complex nanocrystal structures</b> , <a href="#">Liberato Manna</a>
AKB 22.1	Thu	14:30	(ZEU 255)	<b>Signal processing by clusters of membrane receptors</b> , <a href="#">T.A.J. Duke</a> , I. Graham
AKB 26.1	Fri	11:00	(ZEU 255)	<b>The physics of cellular computation</b> , <a href="#">Pieter Rein ten Wolde</a>

**Sessions**

AKB 1	<b>Cellular Processes</b>	Mon	09:45–11:30	ZEU 255	AKB 1.1–1.5
AKB 2	<b>Membranes: Conformations and Dynamics</b>	Mon	10:30–11:30	ZEU 260	AKB 2.1–2.4
AKB 3	<b>Cell Motility I</b>	Mon	11:30–13:15	ZEU 255	AKB 3.1–3.6
AKB 4	<b>Membranes: Phase Behavior and Dynamics</b>	Mon	12:00–13:15	ZEU 260	AKB 4.1–4.5
AKB 5	<b>Cell Motility II</b>	Mon	14:00–15:45	ZEU 255	AKB 5.1–5.6
AKB 6	<b>DNA Mechanics</b>	Mon	14:30–16:00	ZEU 260	AKB 6.1–6.6
AKB 7	<b>Biopolymers I</b>	Tue	09:45–11:30	ZEU 255	AKB 7.1–7.6

AKB 8	<b>Cell Motility: Neuronal Growth</b>	Tue	10:15–11:00	ZEU 260	AKB 8.1–8.3
AKB 9	<b>Chemical Bonds and Adsorption</b>	Tue	11:00–12:00	ZEU 260	AKB 9.1–9.4
AKB 10	<b>Neuroscience</b>	Tue	11:30–13:30	ZEU 255	AKB 10.1–10.7
AKB 11	<b>Cell Adhesion I</b>	Tue	12:00–13:00	ZEU 260	AKB 11.1–11.4
AKB 12	<b>Soft-Matter Nanofluidic Devices</b>	Tue	14:00–16:00	ZEU 255	AKB 12.1–12.7
AKB 13	<b>Cell Adhesion II</b>	Tue	14:30–15:45	ZEU 260	AKB 13.1–13.5
AKB 14	<b>Molecular Motors</b>	Tue	16:00–18:30	ZEU 255	AKB 14.1–14.9
AKB 15	<b>Biopolymers II</b>	Tue	16:30–18:30	ZEU 260	AKB 15.1–15.8
AKB 16	<b>Biological Networks</b>	Wed	14:00–15:15	ZEU 255	AKB 16.1–16.4
AKB 17	<b>Population Dynamics</b>	Wed	14:30–15:30	ZEU 260	AKB 17.1–17.4
AKB 18	<b>Ion Channels and Nanopores</b>	Wed	15:30–16:45	ZEU 255	AKB 18.1–18.4
AKB 19	<b>Proteins</b>	Wed	16:00–16:45	ZEU 260	AKB 19.1–19.3
AKB 20	<b>Nano-Biomaterials and Devices</b>	Thu	09:45–12:45	ZEU 255	AKB 20.1–20.10
AKB 21	<b>Intracellular Transport</b>	Thu	10:45–12:30	ZEU 260	AKB 21.1–21.7
AKB 22	<b>Sensory Biophysics and Signal Transduction</b>	Thu	14:30–16:15	ZEU 255	AKB 22.1–22.6
AKB 23	<b>Photo-Biophysics</b>	Thu	16:15–17:15	ZEU 255	AKB 23.1–23.4
AKB 24	<b>Brownian Motion and Fluctuation Theorems</b>	Thu	17:15–18:00	ZEU 255	AKB 24.1–24.3
AKB 25	<b>Cell Mechanics I</b>	Thu	15:00–18:00	ZEU 260	AKB 25.1–25.12
AKB 26	<b>Cellular Computation and Gene Regulation</b>	Fri	11:00–12:00	ZEU 255	AKB 26.1–26.3
AKB 27	<b>Cell Mechanics II</b>	Fri	11:30–13:00	ZEU 260	AKB 27.1–27.6
AKB 28	<b>Single Molecule Probes</b>	Fri	12:00–13:00	ZEU 255	AKB 28.1–28.4
AKB 30	<b>Poster Session I</b>	Mon	15:30–18:00	P1	AKB 30.1–30.40
AKB 40	<b>Poster Session II</b>	Wed	16:30–19:30	P3	AKB 40.1–40.69

#### Annual General Meeting of the Section Biological physics

Thu 18:30–20:00 ZEU 255

Programmplanung 2007 - Themenschwerpunkte - Fachinterne Symposien - Fachuebergreifende Symposien