



WWW-Server für Frühjahrstagungen und E-Verhandlungen

Arbeitskreis Biologische Physik

Abstracts

Hauptvorträge:

- [AKB 10.1](#) Mo 09:30 H40
Micromechanics of Biopolymer Networks and Shells
 •Christoph F. Schmidt, Maryam Atakhorrami, Gijsberta H. Koenderink, Pedro J. de Pablo, Iwan A.T. Schaap, Irena L. Ivanovska, Gijs J.L. Wuite, Frederick C. MacKintosh
- [AKB 10.2](#) Mo 10:00 H40
Microrheology of Actin Networks
 •Andreas Bausch
- [AKB 10.3](#) Mo 10:30 H40
The Cytoskeleton: A Model System for Stiff Polymers
 •Erwin Frey
- [AKB 10.4](#) Mo 11:00 H40
Models of Biological Fiber Systems
 •Camilla Mohrdieck, Eduard Arzt
- [AKB 11.1](#) Mo 12:00 H40
Active Biomimetic Systems
 •Reinhard Lipowsky
- [AKB 11.2](#) Mo 12:30 H40
Membranes and Active Gels
 •Hans-G\unther Döbereiner
- [AKB 12.1](#) Mo 14:30 H40
Active Polymer Networks in Biological Cells
 •Josef Käs, Claudia Brunner, Jochen Guck, Falk Wottawah, Stefan Schinkinger, Karla Mueller, Timo Betz, Bjoern Stuhmann, Daniel Koch, Allen Ehrlicher, Michael Goegler, David Smith
- [AKB 12.2](#) Mo 15:00 H40
Dynamic Phenomena and Force Generation in Cells
 •Frank Jülicher
- [AKB 12.3](#) Mo 15:30 H40
Symmetriebrechung in einem multizellulären System am Beispiel der Hydra
 •Albrecht Ott, Jordi Soriano, Cyril Colombo, T. Bosch - Kollaboration
- [AKB 12.4](#) Mo 16:00 H40
Investigating Cell Division and Cell Protrusion by AFM
 •Manfred Radmacher
- [AKB 13.1](#) Mo 17:00 H40
Membranes with Rotating Motors
 •Peter Lenz
- [AKB 13.2](#) Mo 17:30 H40
Models for Pattern Formation in Cell Biology
 •Walter Zimmermann
- [AKB 20.1](#) Di 09:30 H40
Physics of DNA Compaction into Chromatin
 •Helmut Schiessel

- [AKB 20.2](#) Di 10:00 H40
Structure and Dynamics of DNA Nanoparticles
•Joachim Rädler
- [AKB 20.3](#) Di 10:30 H40
Electronic Detection of DNA on Transistor Arrays
•Ulrich Bockelmann, François Pouthas, Cedric Gentil, Denis Cote
- [AKB 21.1](#) Di 11:30 H40
Chemische Kinetik einzelner spezifischer Bindungen
•Rudolf Merkel, Melanie Nguyen-Duong
- [AKB 21.2](#) Di 12:00 H40
Forces acting on Biological Model Systems
•Udo Seifert
- [AKB 21.3](#) Di 12:30 H40
Cell Organization in Soft Media due to Active Mechanosensing
•Ulrich Schwarz
- [AKB 22.1](#) Di 14:00 H40
A Biophysical View of Molecular Recognition
•Dario Anselmetti
- [AKB 22.2](#) Di 14:30 H40
Mechanical Single Molecule Experiments in the Thermal Energy Regime
•Ernst-Ludwig Florin
- [AKB 22.3](#) Di 15:00 H40
Labeling of Cells with Quantum Dots
•Wolfgang Parak
- [AKB 22.4](#) Di 15:30 H40
Detecting and Manipulating Single Molecules in the Fluid Phase
•Petra Schwille
- [AKB 23.1](#) Di 16:30 H40
Microscopy and Spectroscopy on Single Membrane Proteins
•Jörg Wrachtrup, Carsten Tietz, Margarita Khazarchyuan, Thews Elmar
- [AKB 23.2](#) Di 17:00 H40
X-ray Scattering Studies of self-assembled Lipid Protein Membranes
•Tim Salditt
- [AKB 23.3](#) Di 17:30 H40
Protein Micropatterns in Supported Lipid Membranes
•Motomu Tanaka
- [AKB 30.1](#) Mi 14:30 H40
Hierarchical Structure and Mechanical Function of Biological Materials
•Peter Fratzl
- [AKB 30.2](#) Mi 15:00 H40
Bioelektronische Hybride
•Andreas Offenhäusser
- [AKB 30.3](#) Mi 15:30 H40
Micro- and Nanolithographic Tools for Designing Biophysical Models of Cell Adhesion and Mechanics
•Joachim Spatz
- [AKB 30.4](#) Mi 16:00 H40
Feeling for Cells with Light
•Jochen Guck, Falk Wottawah, Kort Travis, Stefan Schinkinger, Frank Sauer, Bryan Lincoln, Susanne Ebert
- [AKB 31.1](#) Mi 16:30 H40
NMR Tomography

| | | | |
|--------------------------|----------|-----|-------------------------------------------------------------------------------------------------------------------------------------------|
| AKB 40.1 | Do 14:30 | H40 | •Peter Jakob Structure and Evolution of bio-molecular Networks |
| AKB 40.2 | Do 15:00 | H40 | •Michael Lässig Dynamics and Evolution of Networks: From the Genome to Ecosystems |
| AKB 40.3 | Do 15:30 | H40 | •Barbara Drossel Evolution of a Genetic Switch in a Fluctuating Environment |
| AKB 40.4 | Do 16:00 | H40 | •Ulrich Gerland, Terence Hwa Proteins: Structure, Function, and Evolution |
| AKB 41.1 | Do 17:00 | H40 | •Markus Porto, Ugo Bastolla, H. Eduardo Roman, Michele Vendruscolo Identification of Sensory Transduction Chains <i>in vivo</i> |
| AKB 41.2 | Do 17:30 | H40 | •Andreas Herz, Tim Gollisch Intracellular Ca²⁺ Dynamics |
| | | | •Martin Falcke |

Fach- und Postersitzungen:

| | | | |
|------------------------|----------------|-----|--------------------------------------------------------|
| AKB 10 | Mo 09:30-11:30 | H40 | Cytoskeleton and Polymer Networks |
| AKB 11 | Mo 12:00-13:00 | H40 | Active Biomimetic Systems and Gels |
| AKB 12 | Mo 14:30-16:30 | H40 | Active Systems: Complex Cellular Processes |
| AKB 13 | Mo 17:00-18:00 | H40 | Active Systems: Structure and Pattern Formation |
| AKB 20 | Di 09:30-11:00 | H40 | Physics of DNA |
| AKB 21 | Di 11:30-13:00 | H40 | Bioadhesion and Molecular Forces |
| AKB 22 | Di 14:00-16:00 | H40 | Single Molecule Methods |
| AKB 23 | Di 16:30-18:00 | H40 | Membranes |
| AKB 30 | Mi 14:30-16:30 | H40 | Biomaterials and Bioengineering |
| AKB 31 | Mi 16:30-17:00 | H40 | Investigations of Biological Structures |

| | | |
|------------------------|--------------------------------------------------------------|-----|
| AKB 32 | Mi 17:00-19:00 Post-deadline Talks | H40 |
| AKB 40 | Do 14:30-16:30 Evolution and Complex Systems | H40 |
| AKB 41 | Do 17:00-18:00 Cell Signaling | H40 |
| AKB 50 | Fr 10:30-13:00 Poster Session "Biological Physics" | B |

[\[HOME\]](#) ► [\[E-Verhandlungen 2004\]](#) ► [\[Regensburg\]](#) ► [\[Arbeitskreis AKB\]](#)

[\[Autorenindex\]](#)

[\[Tagungsinformationen\]](#) [\[E-Verhandlungen\]](#) [\[Archiv\]](#) [\[Vortragsanmeldung\]](#) [\[Teilnehmerregistrierung\]](#) [\[Programmbearbeitung\]](#)
[\[DPG WWW-Server\]](#)

Zuletzt geändert am 27.02.2004

[Fragen, Kommentare, Anregungen und Kritik](#)