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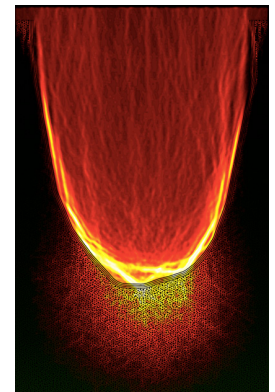
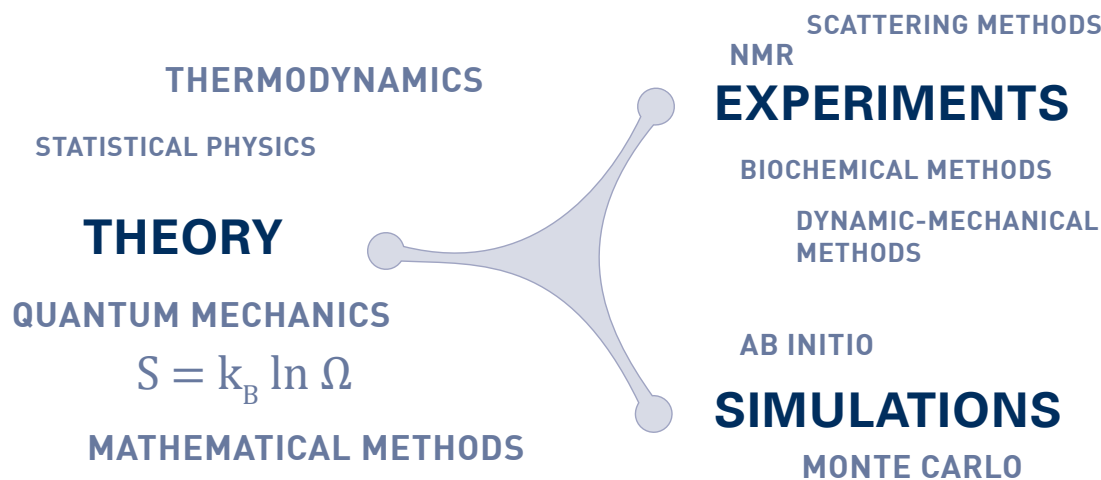
Soft Condensed Matter and Biological Physics

Lecture Series

Biological systems are examples of soft matter which display structures on various length scales and are formed by many components, notably by long chain molecules which are known as polymers.

Research in this field combines experiments, theoretical work and computer simulations. This is re-

flected by the variety of courses offered. Studying soft matter and biological physics provides you with versatile skills which can be applied in many areas of research and industry.



© M. Kreysing,
Prof. J. Guck

Interested? Join us on the basic lecture *Introduction to the Physics of Soft Condensed Matter !*

SoSe
2013

Lecturers

Prof. Dr. Jens-Uwe Sommer (IPF Dresden)
 Prof. Dr. Manfred Stamm (IPF Dresden)
 Prof. Dr. Frank Jülicher (Max-Planck-Institute)
 Prof. Dr. Stefan Diez (Max-Planck-Institute)
 Prof. Dr. Jochen Guck (TU Dresden, BIOTEC)
 PD Dr. Karim Fahmy (Helmholtz-Zentrum Rossendorf)

Language

English and German (announced with individual lectures)

Exam

- oral exam on basic concepts from 2 lectures (out of 4 attended ones) and the basic lecture
- can be taken in German

Lectures offered:

Introduction to the Physics of Soft Condensed Matter	
Introduction to Biophysics	Theoretical Polymer Physics
Biophysical Methods	Experimental Methods of Polymer Physics
Numerics and Computer Simulations in Soft Condensed Matter (including Computer Exercises)	
Theoretical Biophysics	Scaling Concepts of Polymer Physics
Lab Exercises: Biophysics and Polymers	

Contact **Prof. Dr. Jens-Uwe Sommer**
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