

BLACK FOREST FOCUS ON SOFT MATTER 8



IMTEK Laboratory for Biomedical Microtechnology

ELECTRONIC AND EXCITONIC TRANSPORT IN SOFT MATTER

The workshop will focus on the design and processing of (semi)conducting soft materials, mechanisms of electronic and excitonic transport in soft matter systems, and the interplay between structure and properties with a particular eye on new directions for the improvement of soft matter based devices. The presentations and discussions will cover

- Molecular design, synthesis, and self-assembly of soft functional materials (molecular and supramolecular structures, nanocrystals, polymers, carbon nanostructures, biomaterials, hybrids).
- Mechanisms of electronic and excitonic transport (diffusion, quantum coherence, mobility, charge separation) and their relationship with molecular structure and supramolecular organisation.
- Impact of transport in soft materials on novel functional devices (FETs, solar cells, OLEDs).

Confirmed Main Speakers:

Heinz Bäbler, Marburg
Zhenan Bao, Stanford
Dirk Guldi, Erlangen
Norbert Koch, Berlin
Maurizio Prato, Trieste
Mark A. Ratner, Evanston
Elke Scheer, Konstanz
Michel Schott, Paris
Klaus Schulten, Illinois
Carlos Silva, Montreal
Frank C. Spano, Philadelphia
Ullrich Steiner, Cambridge
David A. Vanden Bout, Austin
Fred Wudl, Santa Barbara

Local Scientific Coordination:

Alexander Blumen, University of Freiburg
Hermann Grabert, FRIAS, University of Freiburg
Aurelio Mateo-Alonso, FRIAS, University of Freiburg
Günter Reiter, FRIAS, University of Freiburg

Location:

Hotel Vier Jahreszeiten,
Schluchsee, Black Forest, Germany
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Information & Contact:

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SCHOOL OF
SOFT MATTER RESEARCH