

BLACK FOREST FOCUS ON SOFT MATTER 3



FRONTIERS IN DYNAMICS: FROM RANDOM TO QUANTUM WALKS

Random walks have been one of the most successful and powerful tools in describing incoherent dynamic processes in various systems ranging from molecular crystals to biomolecules and even to social sciences. Their coherent counterparts, quantum walks, are acquiring a similar breadth in applications. Nowadays they are used from quantum information to the description of transport in complex topologies such as in the photosynthetic units. The Freiburg Institute for Advanced Studies (FRIAS) and the Institute of Physics at the University of Freiburg organize this workshop to bring together experts from theory and experiment to discuss the exciting field of the quantum-to-classical crossover.

Speakers include:

Yakir Aharonov Tel Aviv, Israel
Eli Barkai Bar Ilan, Israel
Shlomo Havlin Bar Ilan, Israel
Katja Lindenberg UCSD, USA
Ralf Metzler Munich
Peter Reineker Ulm
Gregory Scholes Toronto, Canada
Robert Silbey MIT, USA
Igor Sokolov Berlin
Matthias Weidemüller Heidelberg
Reinhard Werner Hanover

Local Scientific Coordination: FRIAS and Institute of Physics

Joseph Klafter
Oliver Mülken
Alexander Blumen
Hermann Grabert

Location:

Hotel am Münster
Breisach am Rhein

Information:

www.frias.uni-freiburg.de/BFF3

JUNE 3–5, 2010



IMTEK Laboratory for Biomedical Microtechnology



FRIAS

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