



FRIAS

FREIBURG INSTITUTE
FOR ADVANCED STUDIES
ALBERT-LUDWIGS-
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FRIAS Workshop Quantum Dissipation Progress & Perspectives July 22 - 24, 2015

Dividing a quantum physical system into observable degrees of freedom and a large number of uncontrollable environmental variables has been an extremely successful concept since the early days of quantum statistical physics. Such quantum dissipative systems have become increasingly important in a continuously growing range of fields, comprising quantum optics, chemical physics, nanophysics, to name a few.

Recently, the interplay of quantum dissipation, quantum entanglement, and quantum information has been elucidated, but likewise new insights in far from equilibrium fluctuations, non-Markovian effects, or driven quantum systems have emerged.

The workshop intends to highlight the state-of-the-art of quantum dissipative systems and discuss challenges in view of novel experiments.

Organizers

Hermann Grabert, FRIAS
Michael Thorwart, Hamburg

Location

FRIAS, Albertstraße 19
79104 Freiburg, Germany

Information

<https://www.frias.uni-freiburg.de/QD>

Invited Participants:

Robert Alicki • Joachim Ankerhold
Dario Bercioux • Christian Bressler
Heinz-Peter Breuer • Christoph Bruder
Andreas Buchleitner • Irene Burghardt
Amir Caldeira • Sushanta Dattagupta
Fabrizio Dolcini • Mark Dykman
Reinhold Egger • Pep Español Garrigós
Rosario Fazio • Frank Grossman
Fritz Haake • Wolfgang Häusler
Gert Ingold • Grégoire Ithier
Sigmund Kohler • Andreas Komnik
Daniel Loss • Thierry Martin
Florian Mintert • Shaul Mukamel
Francesco Petruccione • Eli Pollak
Peter Reimann • Wolfgang Schleich
Thomas Schmidt • Herbert Schoeller
Gerhard Stock • Jürgen Stockburger
Peter Talkner • Yoshitaka Tanimura
Björn Trauzettel • Ulrich Weiss

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