



# FRIAS

FREIBURG INSTITUTE FOR ADVANCED STUDIES  
ALBERT-LUDWIGS-UNIVERSITÄT FREIBURG

## 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

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Hermann Grabert, FRIAS  
Michael Thorwart, Hamburg

### Location

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FRIAS, Albertstraße 19  
79104 Freiburg, Germany

### Information

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[www.frias.uni-freiburg.de/QD](http://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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