



FRIAS

FREIBURG INSTITUTE
FOR ADVANCED STUDIES
ALBERT-LUDWIGS-
UNIVERSITÄT FREIBURG



Nonlinear Spectroscopy meets Quantum Optics

Scientific context: This workshop aims to stimulate interdisciplinary exchange between experts in quantum optics and in nonlinear spectroscopy of complex systems. The controlled assembly of synthetic quantum systems requires the development of novel tools for the efficient and scalable characterization of nonequilibrium many-body dynamics, where expertise from nonlinear spectroscopy is expected to be helpful. Conversely, the use of quantum properties of light for spectroscopic applications stands to provide new tools for the interrogation of complex quantum systems ranging from solid state devices to molecular aggregates.

Date: October 8 – 10, 2014

Place: Freiburg Institute for Advanced Studies (FRIAS)
University of Freiburg
Albertstraße 19
D-79104 Freiburg im Breisgau
Germany

List of invited speakers:

Shaul Mukamel
University of California, Irvine

Stefan Kuhr
University of Strathclyde

Theodore Goodson III
University of Michigan

Shannon Whitlock
Universität Heidelberg

Mackillo Kira
Philipps-Universität Marburg

Ferdinand Schmidt-Kaler
Universität Mainz

Marten Richter
Technische Universität Berlin

Antoine Browaeys
Institut d'Optique, CNRS, Paris

Claude Fabre
Laboratoire Kastler Brossel, Paris

Tobias Schätz
Albert-Ludwigs-Universität Freiburg

Christian Roos
Universität Innsbruck

David Gross
Albert-Ludwigs-Universität Freiburg

Vahid Sandoghdar
MPI for the Science of Light, Erlangen

Gerhard Stock
Albert-Ludwigs-Universität Freiburg

Tobias Brixner
Universität Würzburg