

599. WEH-Seminar:

# “Isolated Quantum Many-Body Systems out of Equilibrium”



November 30 - December 3 2015

Venue: Physikzentrum Bad Honnef, Germany

## Topics

Boosted by new experimental possibilities with cold atoms and time-resolved solid-state spectroscopy, the field of many-body quantum dynamics has recently seen rapid progress. This workshop will bring together practitioners addressing non-equilibrium quantum physics from two different perspectives:

- **exact unitary dynamics**
- **quantum kinetic descriptions in the framework of the Boltzmann equation or its generalizations**

While both approaches have venerable histories, relatively little is understood about their connection, the overlap of their regimes of applicability, etc.

## Organizers

Michael Bonitz (Univ. Kiel)

Masudul Haque (MPI PKS Dresden)

Stefan Kehrein (Univ. Göttingen)

## Invited Speakers

Wolfgang Cassing (Univ. Giessen)

Jean-Sebastien Caux (Univ. Amsterdam)

Pawel Denielewicz (Michigan State Univ.)

James W. Dufty (Univ. of Florida)

Andre Eckardt (MPI PKS Dresden)

Martin Eckstein (Univ. Hamburg, CFEL)

Fabian Essler (Oxford Univ.)

Frank Jahnke (Univ. Bremen)

Alex Kamenev (Univ. of Minnesota)

Marcus Kollar (Univ. Augsburg)

Corinna Kollath (Univ. Bonn)

Aditi Mitra (NYU)

Anatoli Polkovnikov (Boston Univ.)

Marcos Rigol (Penn State)

Achim Rosch (Univ. Köln)

Lea Santos (Yeshiva Univ.)

Herbert Spohn (TU München) [ t.b.c. ]

Mark Srednicki (UCSB)

## Application

Applications for participation are welcome and can be made by filling out the form on the website and sending it to Frau Oldenburg (oldenburg@theorie.physik.uni-goettingen.de) by **September 15**.

## Funding

The workshop is generously funded by the Wilhelm and Else Hereaus-Stiftung.

## Website

<http://www.pks.mpg.de/~haque/WEH2015.html>