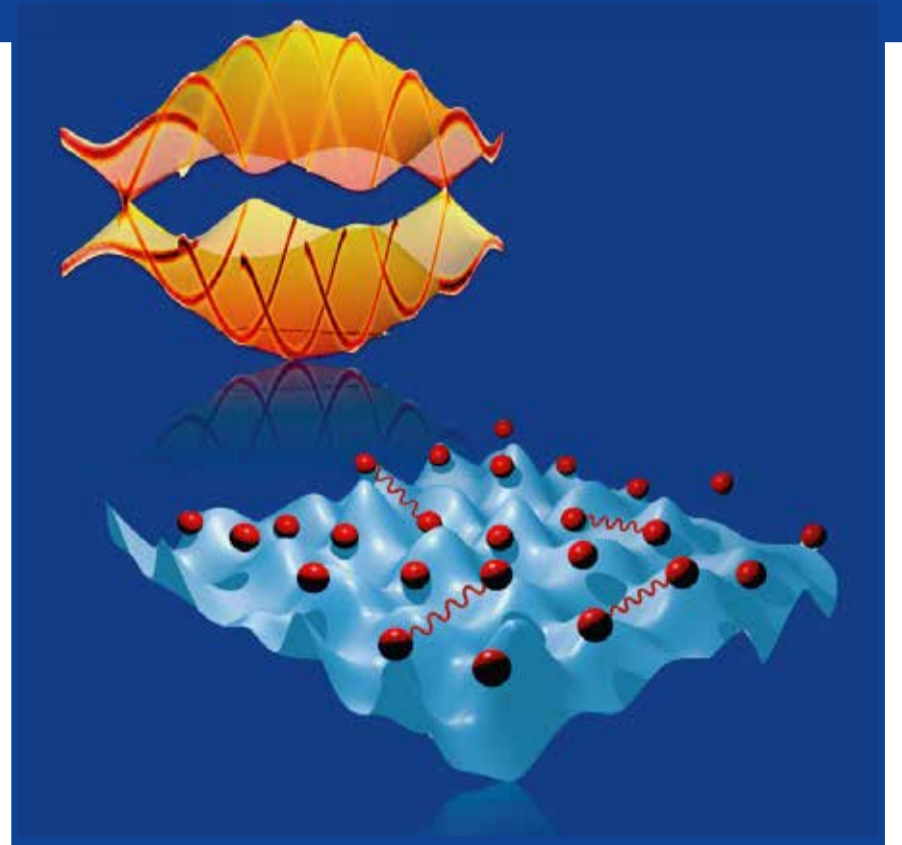




# Dynamical Probes for Exotic States of Matter

## International Workshop 27 - 30 March 2017

This workshop aims at bringing together leading scientists working on dynamical and non-equilibrium properties of quantum many body systems. Dynamical properties have shown to provide characteristic fingerprints of exotic phases of matter such as topologically ordered and fractionalized phases. Furthermore, quantum matter out of equilibrium can exhibit novel phases that cannot occur in equilibrium settings.



### Topics

- Dynamical properties of quantum spin liquids
- Floquet engineering of novel orders and their dynamics
- Dynamics of the many-body localization transition

### Invited speakers

Mari Carmen Bañuls (DE)  
 Jens Bardarson (DE)  
 Immanuel Bloch\* (DE)  
 Claudio Castelnovo (UK)  
 John Chalker\* (UK)  
 Sasha Chernyshev (US)  
 Radu Coldea (UK)  
 Arnab Das (IN)  
 André Eckardt (DE)  
 Matthias Gohlke (DE)  
 Sarang Gopalakrishnan (US)  
 Fabian Heidrich-Meisner (DE)  
 Vedika Khemani (US)  
 Johannes Knolle (UK)  
 Christopher Laumann\* (US)  
 Netanel Lindner (IL)  
 David Luitz (US)  
 Michael Messer (CH)  
 Stephen Nagler (US)  
 David Pekker (US)  
 Anatoli Polkovnikov (US)

Leonid Pryadko (US)  
 Matthias Punk (DE)  
 Gil Refael (US)  
 Ioannis Rousochatzakis (US)  
 Maksym Serbyn (US)  
 Romain Vasseur (US)  
 Yuan Wan (CA)  
 Michael Zaletel\* (US)

\* to be confirmed

### Scientific coordinators

Michael Knap  
 Garching, Germany  
 Roderich Moessner  
 Dresden, Germany  
 Frank Pollmann  
 Dresden, Germany

### Organisation

Katrin Lantsch  
 MPIPKS Dresden

Applications received before 6 January 2017 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international workshop is 120 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses.

#### For further information please contact:

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