



# Joint IMPRS Workshop on Condensed Matter, Quantum Technology and Quantum Materials

## Workshop 3 - 7 April 2017

The workshop is a joint initiative of four International Max Planck Research Schools (IMPRS): the IMPRS for Condensed Matter Science (Stuttgart), the IMPRS for Chemistry and Physics of Quantum Materials (Dresden), the IMPRS for Quantum Science and Technology (Garching) and the IMPRS for Many-particle Systems in Structured Environments (Dresden).

The main aim of the workshop is to bring together PhD students of the four research schools. In addition to talks covering various research topics within the theme of the workshop, ample time will be provided for direct interaction between all participants, creating a stimulating environment for discussions.

The program comprises invited talks, as well as several presentations by PhD students and a poster session.

### Topics

- novel quantum materials
- correlated electrons
- cold atoms
- quantum information and quantum computation
- many-body physics
- Floquet systems
- quantum criticality
- topological insulators and superconductors
- quantum sensing
- collective phenomena and interfaces



### Invited speakers:

Eva Benckiser  
Immanuel Bloch  
Manuel Brando  
Ignacio Cirac  
Bernhard Keimer  
Michael Knap  
Andrew Mackenzie  
Roderich Moessner  
Philip Moll  
Takashi Oka  
Thomas Pohl  
Friedemann Reinhard  
Andreas Rost  
Suchitra Sebastian

### Scientific coordinators:

Sonya Gzyl  
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**Organisation:**  
Claudia Domaschke  
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MPI-PKS, Dresden

Applications received before 17 February 2017 will be 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 seminar and 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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