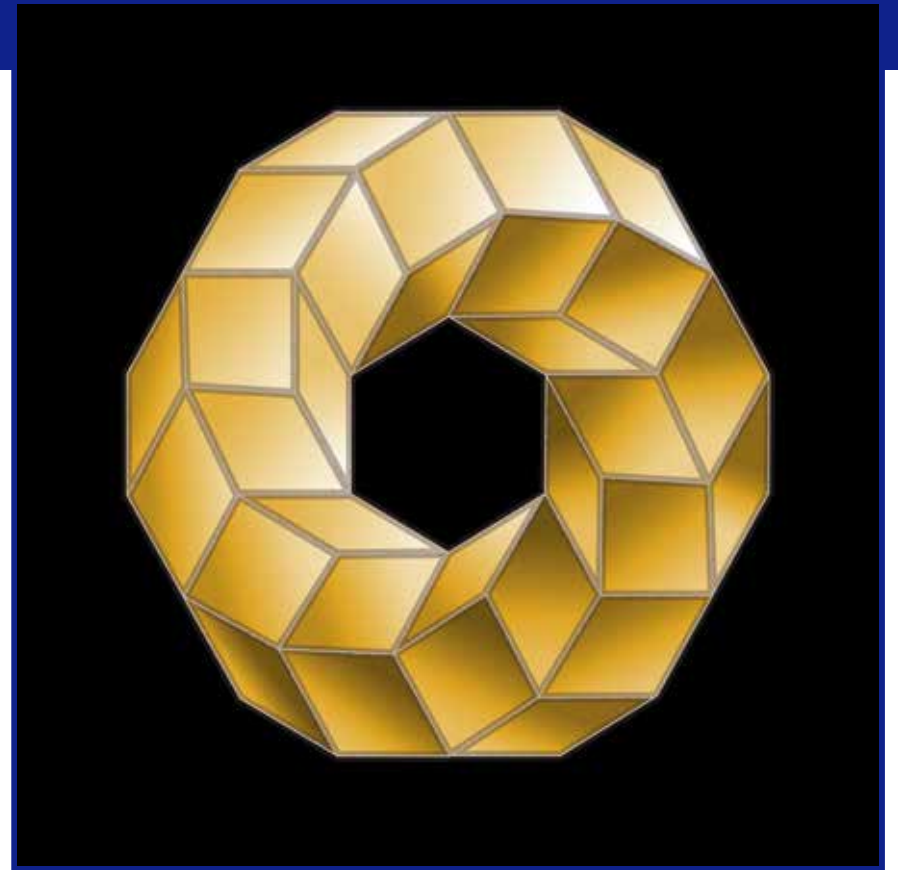




# Synthetic Topological Matter

## International Workshop 20 - 24 May 2019

In recent years, a novel approach to finding and exploring topological materials has emerged: namely, one can “imitate” necessary physical ingredients by using other degrees of freedom. Notable examples include (but are not limited to) driven systems and photonics, multi-terminal Josephson junctions, topological electrical circuits as well as synthetic dimensions and gauge fields in cold atomic systems. The workshop aims at bringing together researchers working on such “synthetic topological materials” in order to assess recent developments and bring new ideas to this rapidly developing field.



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### Topics include:

- topological phases
- driven systems
- synthetic dimensions
- emergent phases
- photonics
- quantum dynamics
- many-body quantum phases
- quantum control

### Invited speakers:

Monika Aidelsburger (DE)  
 Bela Bauer (US)  
 Jacqueline Bloch (FR)  
 Iacopo Carusotto (IT)  
 Anushya Chandran (US)  
 Pierre Delpace (FR)  
 Nathan Goldman (BE)  
 Mohammad Hafezi (US)  
 Manuel Houzet (FR)  
 Sebastian D. Huber (CH)  
 Vedika Khemani (US)  
 Netanel Lindner (IL)  
 Guillaume Malpuech (FR)  
 Florian Marquardt (DE)  
 Ivar Martin (US)  
 Sylvain Nascimbene (FR)  
 Yuli Nazarov (NL)  
 Hannah Price (UK)  
 Mikael Rechtsman (US)

Pedram Roushan (US)  
 Mark Rudner (DK)  
 Eran Sela (IL)  
 Jonathan Simon (US)  
 Ian B. Spielman (US)  
 Ronny Thomale (DE)  
 Oded Zilberberg (CH)

### Scientific coordinators:

Julia Meyer  
 Grenoble, FR

Gil Refael  
 Pasadena, US

Kirill Shtengel  
 Riverside, US

### Organisation:

Mandy Lochar  
 MPIPKS Dresden

Applications received before 31 January 2019 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 140 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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