

# TOPOLOGICAL SEMIMETALS

# AND BEYOND

**September 11-14, 2017**  
**Weizmann Institute of Science**

**Research Workshop of the  
Israel Science Foundation**

Recent exciting developments in the classification of topological semimetals have greatly enriched the realm of topological matter. Topological semimetals, as opposed to topological insulators, exhibit exotic phenomena both in their bulk and on their surfaces. The workshop aims at bringing together leading experts, postdocs and students in theoretical and experimental condensed matter physics and material science to explore the plethora of phenomena and the ways they come into play in the increasing list of candidate materials for their realization.

## Among the Topics in Focus

- Dirac, Weyl and nodal semimetals
- Anomalies in magnetoresistance
- Material design and low dimensional systems
- Interaction effects and superconductivity
- New frontiers in topological classification

## Special events

- Reception cocktail
- Public talk by Duncan F Haldane, 2016 Nobel laureate in Physics
- Excursion to Jerusalem
- Outdoor Beatles concert hosted by the Physics faculty
- Gala dinner

## Organizing Committee

Haim Beidenkopf, Nurit Avraham, Binghai Yan  
Weizmann Institute of Science

## Speakers

Mazhar N Ali, Germany  
James Analytis, USA  
Jens H Bardarson, Germany  
Erez Berg, USA  
Andrei Bernevig, USA  
Anton Burkov, Canada  
Robert J Cava, USA  
Yulin Chen, UK  
Xi Dai, China  
Hong Ding, China  
Claudia Felser, Germany  
Marcel Franz, Canada  
Duncan F Haldane, USA  
Roni Ilan, Israel  
Netanel Lindner, Israel  
Laurens W. Molenkamp, Germany  
Philip Moll, Germany  
Nai Phuan Ong, USA  
Andreas Schnyder, Germany  
Leslie M Schoop, Germany  
Alexey Soluyanov, Switzerland  
Ady Stern, Israel  
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and registration**

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