mpipks

New Platforms for Topological Superconductivity with Magnetic Atoms

MAX-PLANCK-GESELLSCHAFT

International Focus Workshop 9 - 11 April 2018

Scanning tunneling microscopy (STM) permits probing and fabricating magnetic nanostructures on top of superconductors. These systems offer new platforms to engineer one-dimensional or two-dimensional topological phases. This focus workshop will bring together experimentalists and theorists to discuss the rich physics of new exotic states on superconductors.

Tristan Cren, CNRS
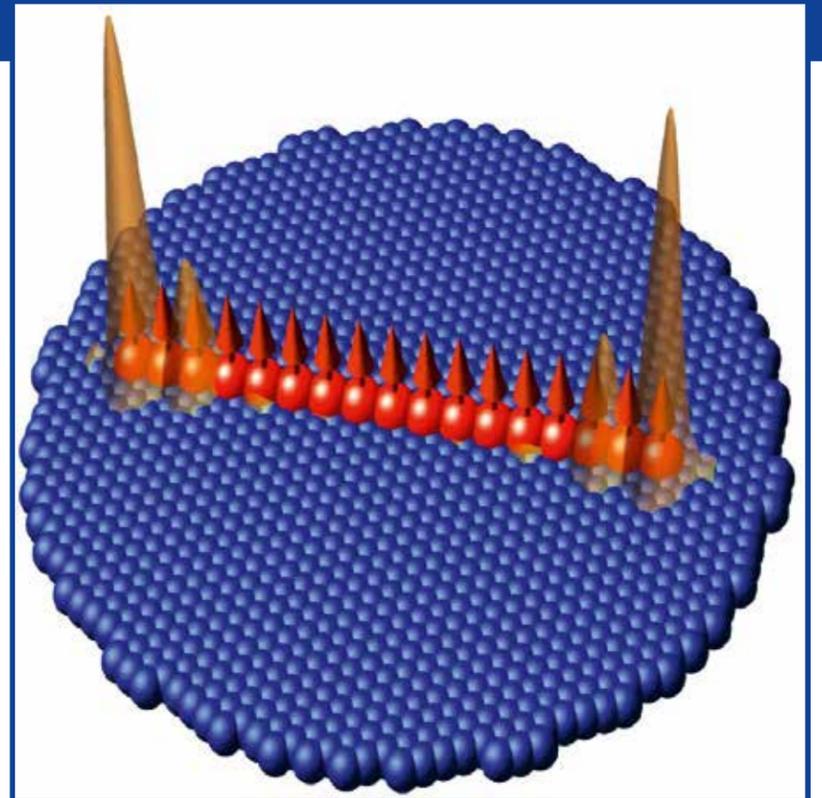
Max Planck Institute for the Physics of Complex Systems

Topics:

- Yu-Shiba-Rusinov states in s-wave superconductors
- Unconventional superconductivity
- Topological superconductivity
- Majorana bound states
- Yu-Shiba-Rusinov lattices
- Chiral edge states
- Design of topological states

Invited speakers:

Bogdan A. Bernevig (US)
Bernd Braunecker (GB)
Christophe Brun (FR)
Claude Chapelier (FR)
Leonid Glazman (US)
Benjamin Heinrich (DE)
Christian Heß (DE)
Jenny Hoffman (US)
Daniel Loss (CH)
Allan MacDonald (US)
Ernst Meyer (CH)
Teemu Ojanen (FI)
Hermann Suderow (ES)
Felix von Oppen (DE)
Peter Wahl (GB)
Roland Wiesendanger (DE)
Ali Yazdani (US)
Rok Zitko (SI)

Scientific coordinators:

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Paris, France

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Berlin, Germany

Pascal Simon
Paris, France

Organisation:

Maria de Haas
MPIPKS Dresden

Applications received before 16 January 2018 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 focus 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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We also offer individual fellowships (phd, postdoc, sabbatical). Applications are accepted continuously. For details, please check www.pks.mpg.de/visitors