

2D Materials for Spin-Orbitronics



3 - 5 May 2021
An ICTP Virtual Meeting
Trieste, Italy

Further information:
<http://indico.ictp.it/event/9607/>
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The emerging field of spin-orbitronics utilizes the relativistic spin-orbit interactions and is opening fascinating new directions for basic research and exciting potential applications in spintronics.

Directors:

N. STOJIC, ICTP, Italy
F. BONDINO, IOM-CNR, Italy

Description:

This mini workshop will cover selected spin-orbit phenomena in low-dimensional materials, comprising their potential and concrete realizations for spin-orbitronics, mostly from the computational-materials perspective, but including also experimental view and results. Low-dimensional materials provide a fertile ground for generating interesting spin-orbit phenomena and are also ideal for incorporation in devices. The presentations will span the range from basic features to the forefront results in the field and are targeting final-year graduate students and early-career researchers in general. The talks will include the speakers' views of the current trends, challenges and future directions in their fields.

Topics:

- Properties and potential of 2D materials for spin-orbitronics
- Skyrmions and exotic magnetism
- Spin-orbit torque

Local Organiser:

N. BINGGELI, ICTP, Italy

Speakers:

S. BLÜGEL, Forschungszentrum Jülich, Germany
J. FABIAN, University of Regensburg, Germany
P. GAMBARDILLA, ETH Zürich, Switzerland
B. NIKOLIC, University of Delaware, USA
S. PICOZZI, CNR-SPIN Chieti, Italy
O. YAZYEV, EPFL Lausanne, Switzerland

How to apply:

Online application:
<http://indico.ictp.it/event/9607/>

Female scientists are encouraged to apply.

Registration:

There is no registration fee.

Deadline:

24 April 2021



The Abdus Salam
International Centre
for Theoretical Physics
www.ictp.it
Trieste, Italy

