

Bonn-Cologne Graduate School of Physics and Astronomy

Intensive Week: Magnetotransport in 2D Materials



bcgs

9. - 12. August 2016

Seminar room - II. Phys. Institute, University of Cologne

Lecturer: Prof. Thomas Szkopek
McGill University, Montreal, Canada

Scope: The course gives an introduction to the exciting field of 2D materials which was initiated with the experimental realization of graphene (Nobel prize 2010).

The 2D materials library has expanded ever since and includes now e.g. hexagonal boron nitride, transition metal dichalcogenides and phosphorene.

Electric transport measurements of these 2D materials in magnetic fields are a powerful means to investigate their physical properties and find new quantum phenomena that are only observable in 2D. The course gives an overview of the field and its possible applications and is intended for researchers starting in the field of 2D materials.

Schedule: Lectures 10⁰⁰ - 12³⁰, exercise classes in the afternoons (schedule to be announced)

Audience: The course is intended for MSc students who want to do a PhD in Spectroscopy/ Cond. matt. physics. The number of participants is limited to 12.

Application deadline is July 22, 2016. Please register with: grueneis@ph2.uni-koeln.de
As a specialized course within the area of specialization of condensed matter physics, 3 CP will be awarded to successful participants.

II. Physikalisches Institut, Zùlpicher Straße 77, 50937 Köln

