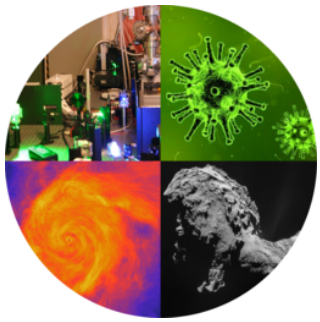

Münchner Physik-Kolloquium

Winter 2018/19

Electronic structure and electron dynamics in two-dimensional materials

Prof. Dr. Philip Hofmann, *Department of Physics and Astronomy, Aarhus University, Denmark*

Monday, 21 January 2019, 17:15 h
Hörsaal 2, Physik-Department der TUM, James-Franck-Straße 1, Garching

Artificial two-dimensional (2D) materials, such as graphene or single-layer transition metal dichalcogenides, have electronic properties that are drastically different from those of their parent compounds. Moreover, these properties do not only depend on the 2D materials as such but also on their environment, for example on the substrate they are placed on. In this talk, I will illustrate how fundamental aspects of the electronic structure, such as the band gap of a semiconducting 2D material or the band dispersion in a 2D metal can be controlled, either by the substrate or by a transient excitation using ultrafast laser pulses.

Student event: Meet the speaker

*We invite you to a **student-only** discussion-round with Prof. Dr. Philip Hofmann before his Munich Physics Colloquium talk.*

Be curious and feel free to ask any question.

Monday, 21 January 2019, 16:00 h
Seminar room PH 3268 (upper floor, new location!), Physik-Department der TUM, James-Franck-Straße 1, Garching