



TECHNISCHE UNIVERSITÄT
CHEMNITZ

Institut für Physik Physikalisches Kolloquium



Mittwoch, 13.06.2018, um 16:00 Uhr

Ort: Reichenhainer Str. 90;
Zentrales Hörsaal- und Seminargebäude,
Raum 2/N013

PD Dr. Harald Schneider

Forschungszentrum Dresden-Rossendorf

Nonlinear terahertz spectroscopy of graphene and GaAs quantum wells using a free-electron laser

The mid-infrared and THz free-electron laser facility FELBE in Dresden, Germany, provides intense, nearly transform-limited picosecond pulses, which can also be combined with synchronous pico- or femtosecond pulses from near-infrared tabletop lasers, thus providing unique research opportunities to advance our knowledge on the interaction of intense mid-infrared and THz fields with materials and devices. This talk reviews some recent experiments using FEL-based intense narrow-band terahertz fields, in particular pump-induced optical anisotropy and nonlinear four-wave mixing in graphene, and dressing of excitons, exciton-polaritons, and intersubband transitions in GaAs quantum wells.



Alle Zuhörer sind ab 15:45 zu Kaffee und Tee vor dem Hörsaal eingeladen.

Informationen zum Vortrag erteilt:
Prof. Dr. Angela Thränhardt, Tel. 0371 531 37636

www.tu-chemnitz.de/physik