



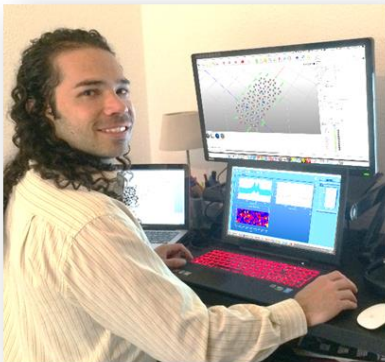
TECHNISCHE UNIVERSITÄT  
CHEMNITZ

# Institut für Physik Physikalisches Kolloquium

Mittwoch, 24.06.2015, um 16:00 Uhr

Ort: Reichenhainer Str. 90;

Zentrales Hörsaal- und Seminargebäude, Raum 2/N013

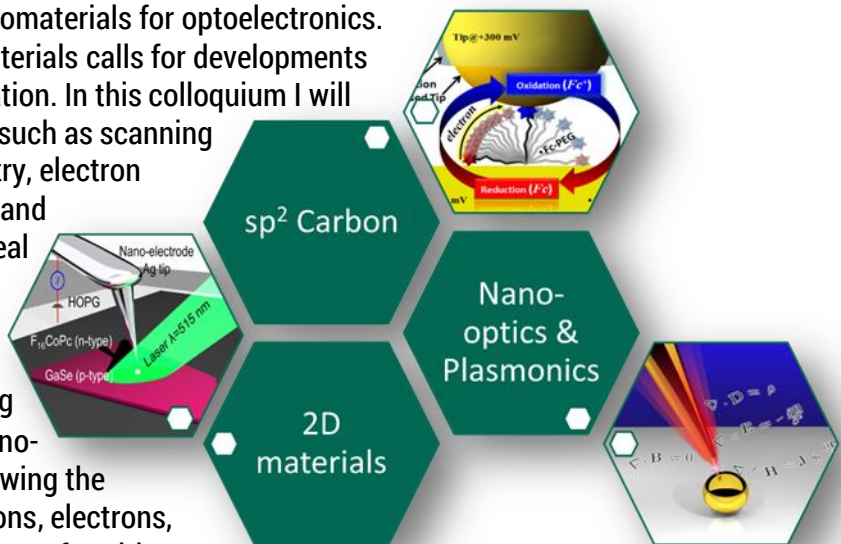


**Dr. Raul Rodriguez**

TU Chemnitz  
Institut für Physik

## ***Nanospectroscopy for Advanced Materials***

What does it look like? What is its function? How much of it is there? Answering these questions about a nanoscale system goes beyond our intrinsic need to find out how the world around us works. These questions also address critical issues from biological systems to identifying and overcoming limitations of novel nanomaterials for optoelectronics. In this context, the study of nanomaterials calls for developments of advanced nanoscale characterization. In this colloquium I will discuss how conventional methods such as scanning probe microscopy, cyclic voltammetry, electron microscopy, optical spectroscopies and plasmonics can be combined to reveal information on nanoscale systems including nanoparticles, carbon nanotubes, and two-dimensional materials. The breaking of some long standing-limitations and ideas in nanoscale analysis will be illustrated showing the intricate connections between photons, electrons, and interactions bridging several years of exciting research.



Alle Zuhörer sind ab 15:45 zum Kaffee vor dem Hörsaal eingeladen.

Informationen zum Vortrag erteilt:  
Prof. Dr. Dietrich R. T. Zahn, Tel.: 0371 531 33036



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