

# DIESE WOCHE

## PHYSIKALISCHES KOLLOQUIUM

des Fachbereichs Physik  
der Johann Wolfgang Goethe-Universität Frankfurt

Mittwoch, den 01.02.2012, 17 Uhr c.t.  
Großer Hörsaal, Raum \_0.111,  
Max-von-Laue-Str. 1

**Prof. Dr. Dominik Marx**  
Lehrstuhl für Theoretische Chemie,  
Ruhr-Universität Bochum

### *„Molecular Nano (Newton) Mechanics“*

The manipulation of covalent bonds in molecular systems using mechanical forces became possible only during the last decade. Several experimental advances made possible the site-specific application of forces in the nano-Newton range required to break or make chemical bonds. Much in parallel with experimental advances, theoretical approaches were developed which pave the way to understanding these phenomena. My lecture will give an overview of our efforts to unveiling the nanomechanical properties of molecule/metal junctions and of force-induced reactions in the condensed phase.

Die Dozenten der Physik

# Kolloquium

<http://www.uni-frankfurt.de/fb/fb13/Termine/index.html>