

# SFB 658 Symposium on "Transport through Molecules"

Konrad-Zuse-Institut Berlin, October 21, 2011

## Program

- 9:00-9:10 Welcome
- 9:10-9:50 Manohar Kumar: *"Detection of vibration mode scattering in electronic shot noise"*
- 9:50-10:30 Mads Brandbyge: *"Current-driven atomic dynamics and instabilities in nano-conductors"*
- 10:30-11:00 *COFFEE BREAK*
- 11:00-11:30 Silvia Kusminskiy: *"Scattering matrix theory of current-induced forces"*
- 11:30-12:00 Christian Lotze: *"Current-induced forces in a hydrogen molecular junction"*
- 12:00-12:30 Tobias Brandes: *"Self-consistent backaction in transport through nanostructures"*
- 12:30-14:00 *LUNCH*
- 14:00-14:40 Adrian Bachtold: *"NEMS resonators made from nanotubes and graphene"*
- 14:40-15:20 Herre van der Zant: *"Transport through a single molecule contacted in a planar device geometry"*
- 15:20-16:00 Alexander Holleitner: *"Photocurrents on the basis of single molecules"*
- 16:00-16:30 *COFFEE BREAK*
- 16:30-17:10 Sander Otte: *"All-electric control of single atom spin states"*
- 17:10-17:50 Maarten Wegewijs: *"Transport of spin-anisotropy: quadrupolar exchange fields and spin-quadrupole current"*
- 17:50-18:20 Leonhard Grill: *"Measuring charge transport through single long molecular wires"*
- 18:20-18:30 Closing