Curriculum Vitae

Kristian Sommer Thygesen

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Academic degrees:

- MSc in Physics, Technical University of Denmark (2002).
- PhD Theoretical Physics, Technical University of Denmark (2005).

Professional experience:

- 1997-2001: Teaching assistant, Technical University of Denmark.
- April 2005–July 2005: Postdoc, Technical University of Denmark.
- Sep. 2005–Sep. 2006: Postdoc, Freie Universität Berlin, Germany.
- Oct. 2006 – : Assistant Professor, Technical University of Denmark.
  Leader of the "molecular electronics" sub-group at CAMD.

Invited talks at international conferences:

- *Stability and transport in monatomic wires and diatomic contacts*, International Conference on Electronic Transport in Molecular Systems, june 2-5, 2003, CECAM, Lyon, France.
- *Conductance and Vibrations in small molecular contacts, International Workshop on Advances in Molecular Electronics, Feb. 2004, Dresden, Germany.*
- *Non-equilibrium GW approach to quantum transport in nano-scale contacts,* 11'th NANOQUANTA workshop on electronic excitations, Sep. 19-22 2006, Houffalize, Belgium.
- *Correlated electron transport in nanocontacts: The non-equilibrium GW approximation,* Transport and non-adiabatic electron evolution from first-principles, Dec. 4-8, CECAM, Lyon, France.
- *Theoretical modelling of electron transport in molecular junctions,* Fourth Annual Øresund Nano-science Symposium, Dec. 8, 2006, HCØ, Denmark
- *Partially Occupied Wannier functions: Applications to molecular transport,* Maximally Localized Wannier Functions: Concepts, Applications, and Beyond, June 2007, CECAM, Lyon, France.

Invited seminars:

- *Electronic structure, transport and dynamics of a platinum-hydrogen bridge,* Kammerlingh Onnes Laboratory, Oct. 15 2003, Leiden, Holland.
- *Construction and applications of maximally localized Wannier functions,* Seminar in Prof. Bjørk Hammer's group, may 10 2005, Århus University, Denmark
- *First-principles simulations of quantum transport in nano-scale junctions,* Seminar in Prof. Gerd Schön's group, May 2007, Karlsruhe University, Germany.

Postdoctoral and Graduate students:

Supervisor for Dr. Duncan J. Mowbray	postdoc 2007-present
Co-supervisor for Mikkel Strange	PhD student, 2005-present
Co-supervisor for Iben Sig Kristensen	PhD student 2005-present
Co-supervisor for Carsten Rostgaard	PhD student 2006-present
Supervisor for Ask Larsen	Master Project 2007-present
Supervisor for Marco Vanin	Master Project 2007-present