

Open positions in theoretical condensed matter physics available at the

## Applied Quantum Physics Laboratory

within the department for Microtechnology and Nanoscience (MC2),

### Chalmers University of Technology

At the Applied Quantum Physics Laboratory, we work on theoretical aspects of future high-performance nano-electronic systems. Our research covers a broad spectrum of problems, from the fundamental problems to the very applied ones. We work in close collaborations with the experimental groups at the Linnaeus Center “Engineered Quantum Systems” at Chalmers. Our major research interests cover the directions: quantum information processing with superconducting electronics, mesoscopic superconductivity and transport in nanostructures, molecular electronics, and graphene electronics.

There are currently **1 postdoc position (Ref 20140481)** offered for 2 years (1+1) in the field of

- Correlations in time-dependent transport in nanostructures

and **1 PhD position (Ref 20140480)** offered for approximately 4 years in the field of

- Coherent control of heat transport in nanostructures

which are planned to be filled by summer 2015 latest (Application deadlines are January 31 for the Postdoc and March 31 for the PhD position). The positions are offered in the research group of Janine Splettstößer (funding provided by the Wallenberg Academy Fellows program and the Swedish VR). Active collaboration with other groups in theoretical as well as experimental Physics at the Department of Microtechnology and Nanoscience is envisaged.

Candidates should have strong background in mesoscopic physics, condensed matter physics or quantum optics. They should be familiar with techniques of quantum many

#### MICROTECHNOLOGY AND NANOSCIENCE – MC2

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