



The vision of molecular electronics is to construct nanostructures, which offer broad perspectives of technological applications. On the way to this challenging goal, many fundamental questions still remain to be solved. In this seminar, we will discuss important aspects of properties of molecules in contact to metallic and insulating surfaces. We will focus on intermolecular interactions leading to the formation of self-assembled structures on surfaces, on electron transport through molecules in contact to metallic electrodes, on switching mechanisms in single molecules and nanostructures and magnetic properties of molecules. The combination of experimental and theoretical expertise in the different domains will draw a conclusive overview of the recent advances and perspectives of molecular electronics.

Speakers

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Important dates

Poster abstract submission: 01.03. 2014
Notification of acceptance: 15.03.2014

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<http://www.e20.ph.tum.de/563th-we-heraeus-seminar>



Technische Universität München