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EINLADUNG zum Habilitandenseminar der Fakultät für Physik

Sprecher: Dr. Stijn Mertens
Institut für Angewandte Physik, TU Wien

Vortragstitel: Out of the Vacuum, into the Electrolyte:
Excursions in Electrochemical Surface Science

Kurzfassung

Electrochemical surface science combines classical electrochemistry with the well-defined solids typical for surface science, and extends the possibilities of studying chemical and physical processes to an environment that is closer to the real world than vacuum.

In my presentation, I shall discuss examples from my own research, where electrochemical scanning tunnelling microscopy was used as the main tool. This technique offers full potential control over substrate and tip and unique advantages over vacuum, be it in controlling structure of self-assembled monolayers, electrolyte gating of molecular electronic function of small metal clusters or changing the nanotexture of a hexagonal boron nitride nanomesh on Rh(111).

Zeit: Donnerstag, 23. Oktober 2014, 16 Uhr

Ort: FH 8 Nöbauer HS (gelber Bereich, 2.OG)

Gerhard Kahl