Laboratorium für Nano- und Quantenengineering

Leibniz Universität Hannover

NanoDay 2014
Mittwoch 01.10.2014

Vorträge: Appelstr. 4, 30167 Hannover, Multimediahörsaal, Technische Informatik (Gebäude 3703)
Postersitzung: Schneiderberg 39, 30167 Hannover, Foyer, Laboratorium für Nano- und Quantenengineering (Gebäude 3430)

Programm

09:15 Begrüßung

09:15 - 10:45 Sitzung I (im Multimediahörsaal)

“Tailoring titanium nanoparticles for photocatalysis“
Armin Feldhoff
Institut für Physikalische Chemie und Elektrochemie

“Magnetic beads – Basics and Applications”
Christine Ruffert
Institut für Mikroproduktionstechnik

“Tuning of disorder in GaAs/AlGaAs quantum wells”
Eddy Patrick Rugeramigabo
Institut für Festkörperphysik, Abteilung Nanostrukturen

10:45 - 11:15 Kaffeepause

11:15 - 12:15 Sitzung II

“Atominterferometer on chips“
Ernst Rasel
Institute of Quantum Optics & Centre for Quantum Engineering and Space-Time Research (QUEST)

"Multi-scale modeling of biofilm growth"
Meisam Soleimani
MARIO - Multifunctional Active and Reactive Interfaces and Surfaces

12:20 Konferenzfoto

12:30 - 13:30 Mittagspause

13:30 - 15:00 Postersitzung (im LNQE-Forschungsbau)

15:00 – 15:15 Verleihung des Posterpreises (im Multimediahörsaal)

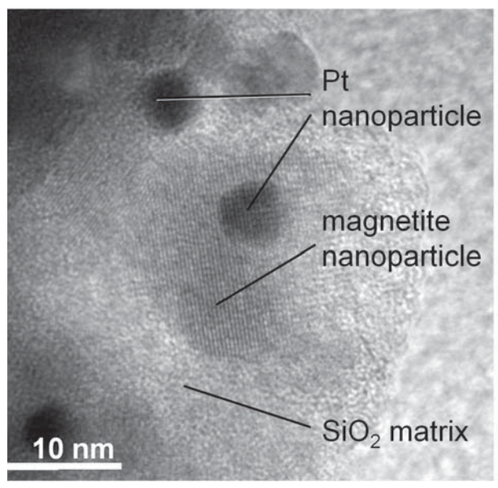
15:15 – 16:45 Sitzung III

"Surface transport in strongly spin polarized systems"
Philipp Kröger
Institut für Festkörperphysik, Abteilung Atomare und Molekulare Strukturen

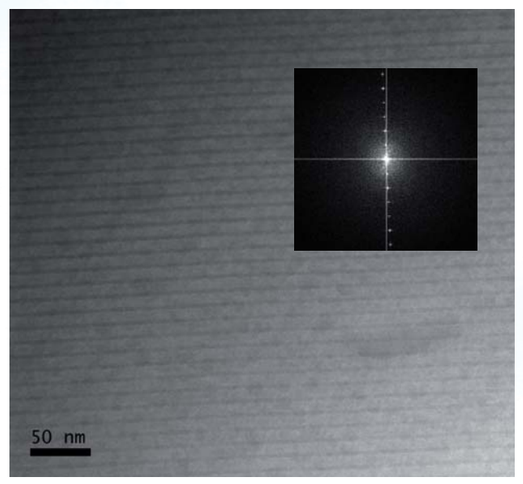
“Ion implantation of elemental boron and boric molecules for silicon solar cells”
Jan Krügener
Institut für Materialien und Bauelemente der Elektronik

"Understanding adsorption in Zr-organic frameworks: A computational study"
Sebastian Lilienthal
Institut für Anorganische Chemie, Arbeitskreis Behrens

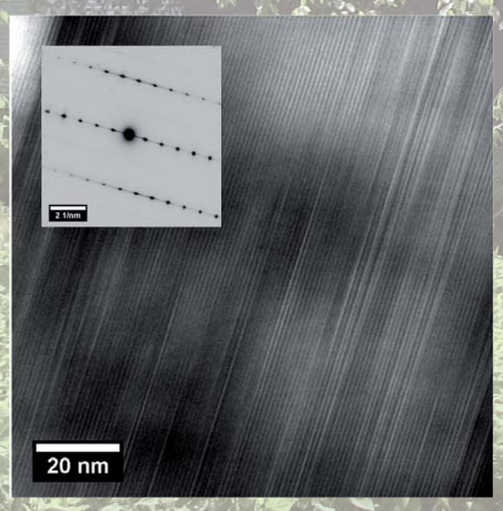
Im Anschluss:
Gemütlicher Ausklang des NanoDay 2014 im LNQE-Forschungsbau.



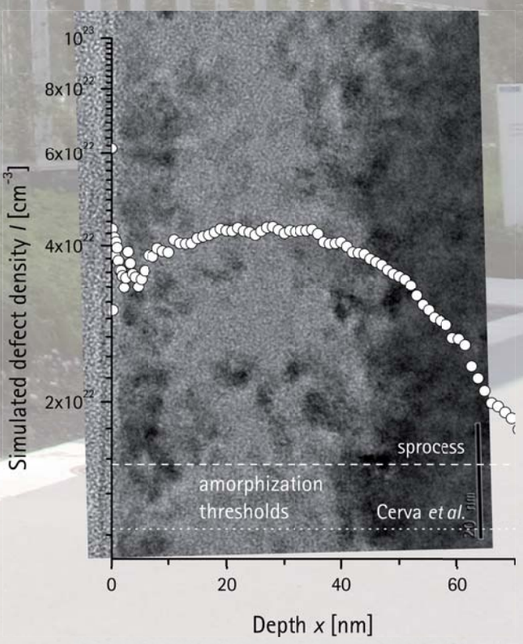
Magnetic bead consisting of magnetite nanoparticles in a SiO2 matrix with 5 nm Pt nanoparticles on the surface. (C. Ruffert, N. Bigall, A. Feldhoff, L. Rissing/IMPT and PCI)



Transmission electron micrograph of a GaAs/GaAlAs superlattice grown by molecular beam epitaxy. The inset fast Fourier transform shows the periodicity of the layers. (E. Rugeramigabo, E. Bugiel/FKP and MBE)



Stacking faults in misfit-layered calcium cobalate are seen in real space by high resolution transmission electron micrograph (HRTEM) due to non-periodicity as well as in reciprocal space by selected area electron diffraction (SAED, inset) due to streaky reflection intensities. (A. Feldhoff, B. Geppert/PCI)



Cross section transmission electron micrograph of Si(111) after ion implantation of 1E15 1/cm² BF2. The overlay shows the corresponding calculated defect density. (J. Krügener, E. Bugiel/MBE)

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