

# NanoDay 2016

## Thursday 29.09.2016

Talks: Appelstr. 4, 30167 Hanover, Multimedia Lecture Hall,  
Technical Computer Science (Building 3703)

Poster Session: Schneiderberg 39, 30167 Hannover, Foyer,  
Laboratory of Nano and Quantum Engineering (Building 3430)

### Program

09:00 Greetings

09:15 - 10:45 Session I (in the multimedia lecture hall)

*Electronic transport through atomic wires*

Ilio Miccoli

Institute for Solid State Physics, ATMOS,  
Group Pfnür and Tegenkamp

*Dye Sensitized Solar Cells on Ceramics*

Manuel Fleisch

Institute of Technical Chemistry, Group Bahnemann

*Quantum Sensing*

Waldemar Herr

Institute of Quantum Optics, Group Rasel

10:45 - 11:15 Coffee break

11:15 - 12:15 Session II

*Nanoparticle Conjugates for Biomedical Applications*

Katja Seidel

Hannover School for Nanotechnology &  
Institute of Organic Chemistry, Group Kirschning

*Investigating the influence of quantum nanoparticles in polymer waveguide*

Parva Chhantyal

Hannover School for Nanotechnology &  
Laserzentrum Hannover, Group Chichkov

12:20 Conference photo

12:30 - 13:30 Lunch break

13:30 - 15:00 Poster Session (in the LNQE research building)

15:00 - 16:30 Session III

*Single trapped ions as a nanosensor for microwave near-fields from scalable microstructures*

Martina Wahnschaffe

Institute of Quantum Optics, Group C. Ospelkaus

*Conductive coordination polymers: Promising materials for nanosensors*

Bastian Hoppe

Institute for Inorganic Chemistry, Group Behrens

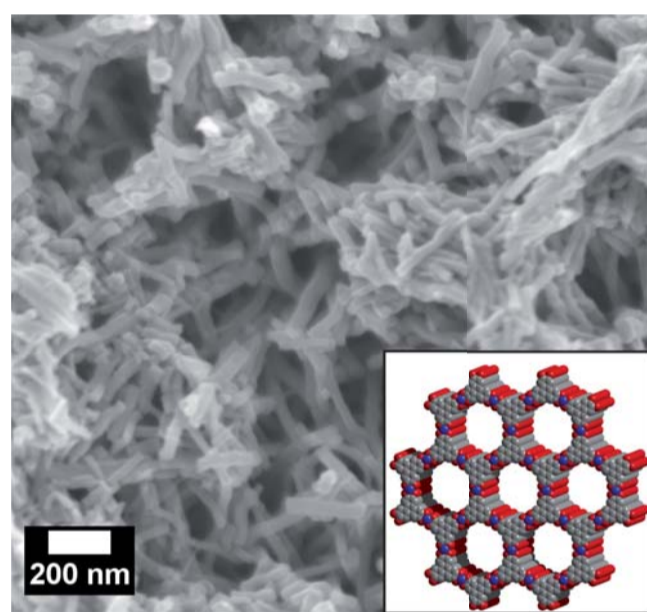
*Feedback controlled single-electron transistor*

Timo Wagner

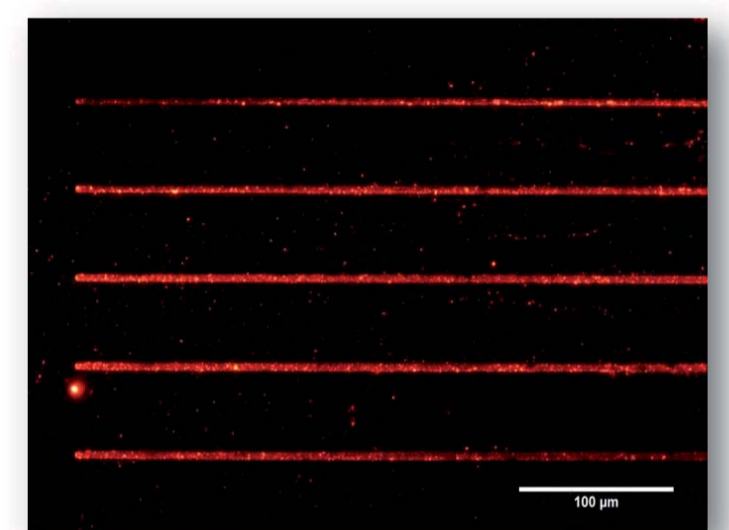
Institute for Solid State Physics, Nanostructures Section,  
Group Haug

16:30 - 16:45 Award ceremony of the poster prize

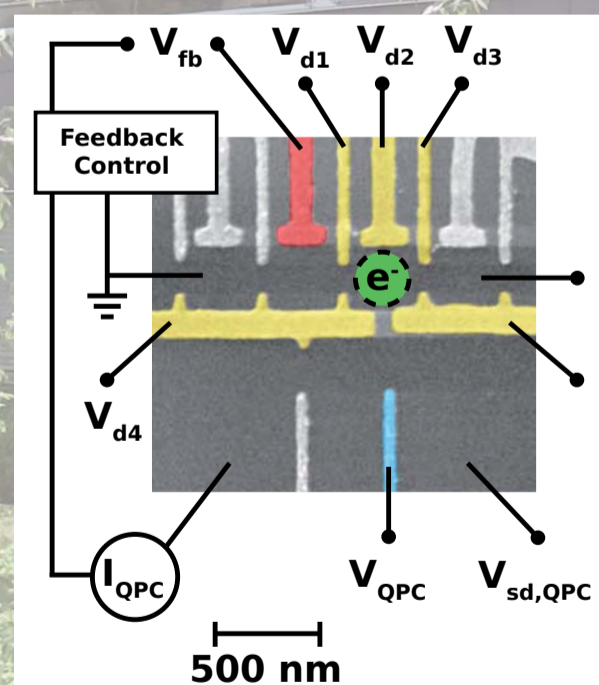
Follow-up: Get-together in the LNQE-research building to conclude the NanoDay 2016.



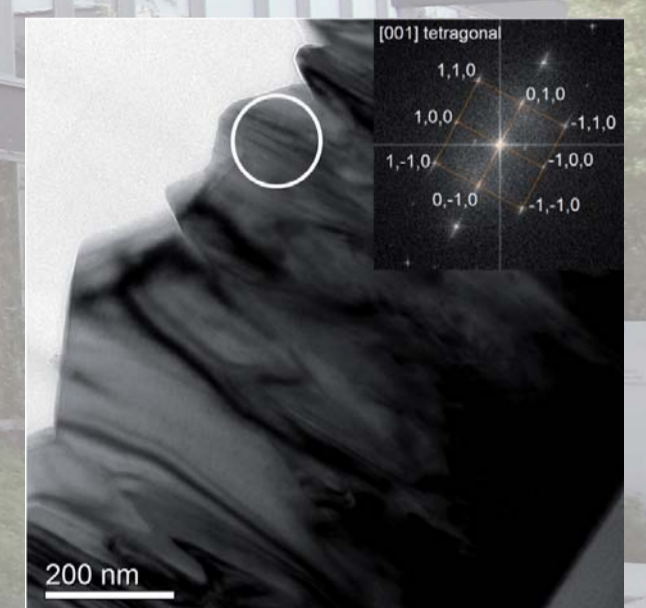
SEM image of conductive copper based MOF. The inset shows the layered hexagonal structure of this new material with 1D pores. (B. Hoppe, H.A. Schulze, P. Behrens / ACI)



Illumination of a waveguide made out of polymer and CdSe/CdS quantum rods. (P. Chhantyal, T. Birr, C. Reinhardt / LZH)



SEM image of a feedback controlled single-electron transistor (SET), consisting of a gate defined quantum dot (QD) with coupled quantum point contact (QPC) charge detector on a two-dimension electron gas (2DEG) in GaAs/AlGaAs. (T. Wagner, R. Haug / FKP)



TEM cross-section image of an electrically conductive tin oxide film prepared via spray pyrolysis on glass. The inset shows an FFT (fast Fourier transformed) image, calculated for the spot encircled in white. (M. Fleisch, D. Bahnemann / TCI)