



NanoDay 2023

Wednesday 20.09.2023

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)

Precision Ion Trap Fabrication for Quantum Clocks and Fundamental Tests

Tanja Mehlstäubler

QUEST Institute for Experimental Quantum Metrology, Physikalisch-Technische Bundesanstalt & LUH

Adjusting the vapor sorption properties of metal-organic frameworks

Adrian Hannebauer

Institute of Inorganic Chemistry, Inorganic Solid State and Materials Chemistry &
Hannover School for Nanotechnology

Locally Controlled MOF Growth on Multi-walled Carbon Nanotubes

Marvin Dzinnik

Institute for Solid State Physics, Group Haug

10:45 Conference photo

10:50 - 11:20 Coffee break

11:20 - 12:20 Session II

Metasurface mirror effect at telecom wavelength

Mariia Matushechkina

Institute for Gravitational Physics & Max Planck Institute for Gravitational Physics,
Quantum Control (Heurs)

Artificial Intelligence based Computer Vision for nanoscale microscopy

Johannes Tim Seifert

Institut für Angewandte Physik, Nanoskopische Systeme (Etzkorn), TU Braunschweig

12:20 - 13:30 Lunch break

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

15:15 - 16:45 Session III

*Interface Manipulation for enhanced contact behaviour in
polymer electrolyte membrane water electrolysis cells*

Lukas Stein

Institute of Electric Power Systems, Electrical Energy Storage Systems (Hanke-Rauschenbach)

Introduction to microfabrication of ion traps

Eike Iseke

Institute of Quantum Optics, Trapped-Ion Quantum Engineering (Ospelkaus)

Ordered self-assembly of cadmium chalcogenide nanoplatelets into stacks

Rebecca Graf

Institute of Physical Chemistry and Electrochemistry, Functional Nanostructures (Bigall) &
Hannover School for Nanotechnology

16:45 - 17:00 Award ceremony of the poster prize

Follow-up: Get-together in the LNQE-research building to conclude the NanoDay 2023

