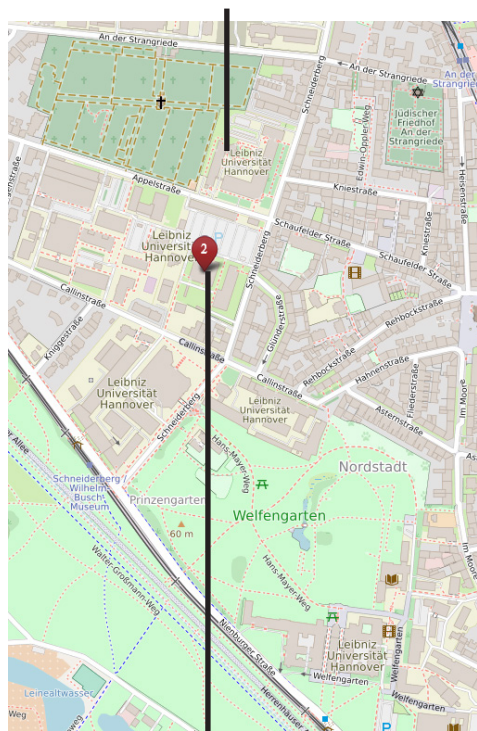


## Guide

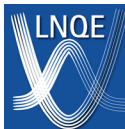
Talks in the  
Multimedia Lecture Hall (3703)



Posters in the  
LNQE Research Building (3430)

You can reach us via the light rail lines 4 and 5 (stop Schneiderberg) or through the lines 6 and 11 (stop Kopernikusstr). The Research Building is on the Schneiderberg 39 on a small side road, which lacks the road Schneiderberg and supplies to the Electrical Engineering Building. Directly in front of the Research Building is a large parking lot.

For more information visit  
[www.LNQE.uni-hannover.de](http://www.LNQE.uni-hannover.de)



Laboratorium für  
Nano- und Quantenengineering



Leibniz  
Universität  
Hannover

## NanoDay 2023

On Wednesday, September 20, 2023, the annual NanoDay of the Laboratory of Nano and Quantum Engineering will take place in Hannover/Germany. In eight lectures and a poster session the latest research results from the interdisciplinary working groups in the field of nanotechnology will be presented.

Guests are welcome!

## Laboratory of Nano and Quantum Engineering

The Laboratory of Nano and Quantum Engineering is an interdisciplinary Leibniz Research Center of the Leibniz Universität Hannover in the field of nanotechnology. Substantive goals are both excellent basic research as well as application-oriented engineering at the nanoscale accompanied by appropriate cross-disciplinary training. Currently more than 30 research groups from physics, chemistry and engineering involved. To achieve its objectives the Laboratory of Nano and Quantum Engineering operates a shared research building in Hanover, with laboratories, equipment, etc., and especially clean rooms.

## Supported by:

LEIBNIZ UNIVERSITÄTSGESELLSCHAFT  
HANNOVER e.V.



## NanoDay 2023

Hannover  
Wednesday 20.09.2023  
9:00 - 17:00

Talks:

Technical Computer Science

(Building 3703)

Appelstr. 4

30167 Hannover

Multimedia Lecture Hall

Poster Session:

Laboratory of

Nano and Quantum Engineering

(Building 3430)

Schneiderberg 39

30167 Hannover

Foyer



## 09:00 Greetings (multimedia lecture hall)

### 09:15 - 10:45 Session I

*Precision Ion Trap Fabrication for Quantum Clocks and Fundamental Tests*

**Tanja Mehlstäubler**

Institute of Quantum Optics & Physikalisch-Technische Bundesanstalt

*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 Matiushechkina**

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

