

Laboratorium für Nano- und Quantenengineering



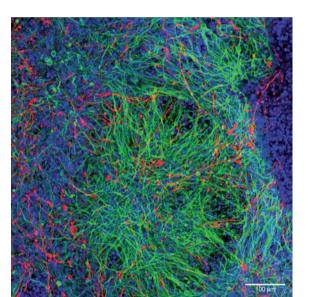
Leibniz Universität Hannover

NanoDay 2019 Thursday 10.10.2019

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



Complex and functional neuronal network developed on a laser produced 3D polymer scaffold from induced pluripotent stem cells. Green - neuronal beta-III-Tubulin staining of neurons. Red - GFAP staining of astrocytes. Blue- cell nuclei (A. Koroleva, A. Deiwick / LZH)

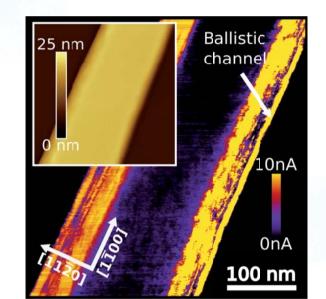
09:15 - 10:45 Session I (in the multimedia lecture hall)

Towards Innovative Optoelectronics: Probing Stable Excitons and Mobile Charges in Tailor-Made 2D Semiconductors Jannika Lauth Institute of Physical Chemistry and Electrochemistry, Group Lauth

How to detect an antiproton with lasers **Teresa Meiners** Institute of Quantum Optics, Group C. Ospelkaus

Electric tracks in epitaxial graphene nanoribbons Johannes Aprojanz Institute for Solid State Physics, Group Pfnür & Tegenkamp

10:45 Conference photo



Current image of two zz-GNRs on SiC collected by conductive-AFM showing that a highly connductive channel is located at the lower edge of the ribbons

10:50 - 11:20 Coffee break

11:20 - 12:20 Session II

Carbon materials with nanopores for application in rechargeable metal-air batteries Arne Schierz Institute of Inorganic Chemistry, Group Behrens

Emerging bio- and nanotechnologies towards 3D brain models A. Koroleva¹, A. El-Tamer¹, B. Chichkov² 1 Laser Zentrum Hannover e.V. 2 Institute of Quantum Optics, Group Chichkov

12:30 - 13:30 Lunch break

- 13:30 15:00 Poster Session (in the LNQE research building)
- 15:00 16:30 Session III

Electron shuttling in multiple quantum dots **Johannes Bayer** Institute for Solid State Physics, Group Haug

TEM-picture of ethanolic dispersed Carbon Nanohorns (CNH type C) showing structural formation of dahlia- and buds-like aggregates. (M. Omelan / DIK) Use of Carbon Nanohorns (CNH) as high potential fillers in elastomers Marvin Omelan German Institute of Rubber Technology (DIK), Group Giese

Semiconductor entangled photon sources for quantum information applications Michael Zopf Institute for Solid State Physics, Group Ding

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

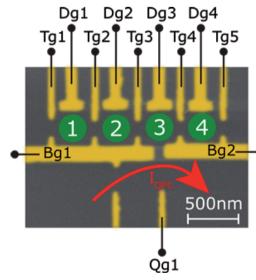
Follow-up: Get-together in the LNQE-research building to conclude the NanoDay.

Supported by: LEIBNIZ UNIVERSITÄTSGESELLSCHAFT HANNOVER e.V.



www.LNQE.uni-hannover.de

Guests are welcome!



Shuttling of single electrons in multiple quantum dots. (J. C. Bayer, T. Wagner, E. P. Rugeramigabo, R. J. Haug / FKP)

(J. Aprojanz / FKP)