

PROGRAM

DPG Summer school 2019

**Exciting nanostructures: Characterizing advanced confined systems**

*22 - 26 July 2019, Physikzentrum Bad Honnef*

Organized by Christian Klinke (University of Rostock) and Nikolai Gaponik (TU Dresden)

***Sunday, 21 July 2019***

17:00 – 21:00 Registration

18:30 DINNER / Informal get together

***Monday, 22 July 2019***

08:00 BREAKFAST

08:45 – 09:00 Opening and welcome  
Prof. Christian Klinke and Prof. Nikolai Gaponik

09:00 – 10:15 *History of colloidal nanostructures*  
Prof. Alexander Eychmüller (TU Dresden)

10:15 – 10:45 COFFEE BREAK

10:45 – 12:00 *Synthesis principles of advanced nanostructures I*  
Prof. David J. Norris (ETH Zurich)

12:00 **Conference Photo (in the front of the Physikzentrum)**

12:15 LUNCH

14:30 – 15:45 *Two-dimensional nanostructures*  
Prof. Sandrine Ithurria (ESPCI Paris)

15:45 – 16:15 COFFEE BREAK

16:15 – 17:45 *Tutorial on 2D based nanodevices*  
Dr. Andres Castellanos (CSIC Instituto de Ciencia de los Materiales de Madrid)

18:30 DINNER

**Tuesday, 23 July 2019**

- 08:00            BREAKFAST
- 09:00 – 10:15 *Synthesis principles of advanced nanostructures II*  
Prof. David J. Norris (ETH Zurich)
- 10:15 – 10:45   COFFEE BREAK
- 10:45 – 12:00 *Chemical Transformation of Colloidal Nanomaterials*  
Dr. Vladimir Lesnyak (TU Dresden)
- 12:15            LUNCH
- 14:30 – 15:45 *Theory of nanostructures*  
Prof. Alexander Efros (US Naval Research Laboratory)
- 15:45 – 16:15   COFFEE BREAK
- 16:15 – 17:45 *Theory of electronic transport through nanostructures*  
Dr. Ilaria Ciofini (Chimie Paristech)
- 18:30            DINNER
- 19:30            **Poster session 1**

**Wednesday, 24 July 2019**

- 08:00            BREAKFAST
- 09:00 – 10:15 *Principles of optical spectroscopy of nanostructures*  
Prof. Sergey V. Gaponenko (Academy of Science Belarus)
- 10:15 – 10:45   COFFEE BREAK
- 10:45 – 12:00 *Probing Excitons and Mobile Charges with Terahertz (THz) - Spectroscopy*  
Dr. Jannika Lauth (University of Hannover)
- 12:15            LUNCH
- 14:00 – 18:00   Excursion & Café (hike in the vicinity, boat trip in case of rain)
- 18:30            DINNER (at the Physikzentrum)

**Thursday, 25 July 2019**

- 08:00            BREAKFAST
- 09:00 – 10:15 *Exciting Quasiparticles at the Nanoscale by Scanning Tunneling Microscopy*  
Prof. Roberto Otero (IMDEA Madrid)
- 10:15 – 10:45    COFFEE BREAK
- 10:45 – 12:00 *Spectroscopic electrochemistry with nanoparticles*  
Prof. Stephen Hickey (University of Bradford)
- 12:15            LUNCH
- 14:30 – 15:45 *The Chemistry and Physics of Nanoscale Surfaces*  
Prof. Zeger Hens (University of Gent)
- 15:45 – 16:15    COFFEE BREAK
- 16:15 – 17:45 *Luminescence Nanothermometry with Semiconductor Nanoparticles*  
Prof. Beatriz H. Juarez (IMDEA Madrid)
- 18:30            DINNER
- 19:30            **Poster session 2**

**Friday, 26 July 2019**

- 08:00            BREAKFAST
- 09:00 – 10:15 *Advanced characterization of nanomaterials*  
Dr. Ute Resch-Genger (BAM Berlin)
- 10:15 – 10:45    COFFEE BREAK
- 10:45 – 12:00 *Spectroscopic electrochemistry with nanoparticles*  
Prof. Stephen Hickey (University of Bradford)
- 12:00 – 12:15    Poster awards and closing remarks  
Prof. Christian Klinke and Prof. Nikolai Gaponik
- 12:30            LUNCH

End of the physics school and Departure