

PROGRAM

DPG Summer school 2019

**Exciting nanostructures: Characterizing advanced confined systems**

*22 - 26 July 2019, Physikzentrum Bad Honnef*

Organized by Christian Klink (Swansea University) and Nikolai Gaponik (TU Dresden)

Monday, 22 July 2019:

*History of colloidal nanostructures*

Prof. Alexander Eychmüller (TU Dresden)

*Synthesis principles of advanced nanostructures*

Prof. David J. Norris (ETH Zurich)

*LUNCH*

*Two-dimensional nanostructures*

Prof. Sandrine Ithurria (ESPCI Paris)

*Basics of electronic transport through nanostructures*

Dr. Andres Castellanos (CSIC Instituto de Ciencia de los Materiales de Madrid)

*DINNER*

Tuesday, 23 July 2019:

*Synthesis principles of advanced nanostructures*

Prof. David J. Norris (ETH Zurich)

*Hybrid nanostructures*

Dr. Vladimir Lesnyak (TU Dresden)

*LUNCH*

*Theory of nanostructures*

Prof. Alexander Efros (US Naval Research Laboratory)

*Theory of electronic properties of nanostructures*

Dr. Ilaria Ciofini (Chimie Paristech)

*DINNER / Poster session 1*

Wednesday, 24 July 2019:

*Principles of optical spectroscopy of nanostructures*

Prof. Sergey V. Gaponenko (Academy of Science Belarus)

*THz spectroscopy and nanostructures*

Dr. Jannika Lauth (University of Oldenburg)

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EXCURSION: Hiking / Boat trip

Thursday, 25 July 2019:

*Scanning tunneling microscopy on nanostructures*

Prof. Roberto Otero (IMDEA Madrid)

*Spectroscopic electrochemistry with nanoparticles*

Prof. Stephen Hickey (University of Bradford)

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*Nuclear Magnetic Resonance with colloidal nanostructures*

Prof. Zeger Hens (University of Gent)

*Nanoparticles in biological environments*

Prof. Beatriz H. Juarez (IMDEA Madrid)

DINNER

*Poster session 2*

Friday, 26 July 2019:

*Advanced characterization of nanomaterials*

Dr. Ute Resch-Genger (BAM Berlin)

*Spectroscopic electrochemistry with nanoparticles*

Prof. Stephen Hickey (University of Bradford)

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