Lehrstuhl Angewandte Physik und Halbleiterspektroskopie BTU Cottbus-Senftenberg

Brandenburg University of Technology Cottbus - Senftenberg

Characterization of micro- and nano-materials, Key aspect: "Synthesis, characterization, and application of layered materials"

13th – 17th September 2021, Cottbus, LG 1A, R. 304

Summer School 2021 / Compact Course
(LV: 130760, Module: 13016; CP: 6)
Language: English

	Monday,13/09/2021 **Synthesis & Applications**	Tuesday, 14/09/2021 **Materials Properties & Characterization**	Wednesday, 15/09/2021 **Characterization: Microscopy & Spectrosc.**	Thursday, 16/09/2021 **Fundamentals, Spectroscopy & Diffraction**	Friday, 17/09/2021 **Characterization & Applications**
9:30-10:00	**Coffee**				
10:00-12:00	***Tutorial*** **Stiven Forti** Istituto Italiano di Tecnologia Pisa, Italy *CVD and MBE growth of layered materials*	***Tutorial*** **Tim Wehling** Uni Bremen *Geometric and electronic structure of 2D materials*	***Tutorial*** **Jeppe Lauritsen** Uni Aarhus *Microscopy of 2D systems*	***Tutorial*** **Eugene Krasovskii** Donostia Int'l Physics Center *Electron scattering in 2D materials*	***Tutorial*** **Tobias Korn** Uni Rostock *Optical and optoelectronic characterization*
12:00–13:00	**Lunch Break**				
13:00-14:00	***Specific Talk*** **Ehrenfried Zschech** BTU/deepXscan GmbH *Novel two-dimensional hybrids as high-performance electrode materials for supercapacitors*	***Specific Talk*** **Charlotte Sanders** STFC Central Laser Facility, London *Introduction to angle-resolved photoemission*	***Tutorial*** **Faisal Alamgir** Georgia Tech, USA *Investigating the Science of Electrochemically Grown 2D Metals Templated on Graphene (part I)*	***Specific Talk*** **Rasuole Lukose** IHP Frankfurt/O. *Towards integration of graphene in 200 mm pilot line*	***Specific Talk*** **Frank Meyer zu Heringdorf** Uni Duisburg-Essen *Vector microscopy* **Concluding remarks**
14:00-14:15	**Coffee Break**				
14:15-15:15	***Specific Talk*** **Peer Schmidt** BTU *Crystal Growth by Vapor Transports - Rational Synthesis Design for 2D-Materials*	***Specific Talk*** **Charlotte Sanders** STFC Central Laser Facility, London *Time-resolved ARPES* ***Specific Talk (14:45)*** **Marten Patt** Focus GmbH *From Real- to Momentum-Space: Micro-ARPES with the NanoESCA*	***Tutorial*** **Faisal Alamgir** Georgia Tech, USA *Investigating the Science of Electrochemically Grown 2D Metals Templated on Graphene (part II)*	***Specific Talk*** **Andreas Stierle** DESY/Uni Hamburg *Graphene supported 2D Nanocluster Superlattices*	