

Current Topics of Nanostructure Physics

Summer Term 2024

Dates **Friday 9:00** **Y2.301**

Date	Presenter	Topic	Presenter / Short Presentation Topic	
05.04.2024			Christian Zietlow	Cross-correlation for aligning EELS Spectra
12.04.2024			Julius Bürger	
19.04.2024	Ray Chaudhury	Alternative TEM Preparation using PVA Sacrificial Layers		
26.04.2024				
03.05.2024	Vinay Kunnathully	InAs Heteroepitaxy on GaAs(111)A Nanopillar Patterned Surfaces		
10.05.2024	Julius Bürger Maja Groll	Poster Presentations: 1. Quantitative measurements of atomic electric fields by STEM differential phase contrast imaging 2. DFT-assisted investigations on of the atomic electric field distribution of vacancy-type defects in 2D WSe ₂ by STEM differential phase contrast imaging	Vinay Kunnathully	Bulk metallic glasses by 3D additive manufacturing
17.05.2024	Maja Groll	Investigations of the atomic electric field and charge density distribution in 2D WSe ₂ by using high resolution STEM and Ddifferential Phase Contrast imaging and DFT	Felix Lohmeyer	XPS
24.05.2024	Julian Sulikowski Jörg Lindner	Lab Safety Instructions		
31.05.2024				
07.06.2024	Harikrishnan Venugopal	Some Open Questions on BCP Patterning of Surfaces	Maja Groll	EMRS Report
14.06.2024			Julius Bürger	EMRS Report
21.06.2024	Janna Friebel Nico Petzold Julian Nierhaus	Short Presentations: PS-PDMS Block Copolymers/TEM Sample Prep/Solvent Vapor Annealing		
28.06.2024	Maja Groll	Identification of STEM Lens Aberrations with Scattergrams		
05.07.2024	Jörg Lindner	Report on the EMRS and ICLPR Meetings		
12.07.2024	Vinay Kunnathully	Additive manufacturing of Fe-Si/18CrNiMo Multimaterial for Rotor Applications		
19.07.2024	Christian Zietlow	How to exploit noise for EELS	Julius Bürger	Lindau