

Workshop on Surface and Interface Diffraction in Condensed Matter Physics and Chemistry (CMPC)

DESY, Hamburg
seminar room BAH1, building 3

PROGRAM

Thursday, March 9

13:00 Registration

13:30 – 15:30 Epitaxial thin films and nanostructures

chair: Florian Bertram

Genziana Bussone-Grifone, DESY

"Synchrotron X-ray diffraction on ensemble and individual core/shell GaAs/In_xGa_{1-x}As nanowires at beamline P08 – PETRA III (DESY)"

Leila Balaghi, Helmholtz-Zentrum Dresden-Rossendorf HZDR

"Strain distribution in GaAs/In_xGa_{1-x}As core/shell nanowires grown by molecular beam epitaxy on Si(111) substrates"

Joachim Wollschläger, Universität Osnabrück

"Structural and magnetic properties of epitaxial ultrathin Fe based oxide films studied by synchrotron radiation"

Martina Müller, Forschungszentrum Jülich & TU Dortmund

"Evolution of electronic structure and magnetism at oxide redox-interfaces"

15:30 Poster session & coffee break

16:00 – 18:00 Magnetic and superconducting thin films

chair: Martin v. Zimmermann

Jens Hänisch, Karlsruhe Institute of Technology (KIT)

"Strain effects in Fe-based superconducting thin films"

Jorge Enrique Hamann Borrero, IFW Dresden

"Valence state reflectometry of complex oxide heterointerfaces"

Timo Kuschel, Uni Bielefeld

"X-ray resonant magnetic reflectivity for spin caloritronics"

Uta Ruett, DESY

"High-energy X-ray scattering on interfaces"

18:00 – 19:00 Poster session

19:30 Workshop dinner

Friday, March 10

09:00 – 11:00 Polycrystalline and amorphous thin films

chair: Ann-Christin Dippel

Peter Zalden, European XFEL

“Crystallization Dynamics of Supercooled Liquid Chalcogenides: In-situ X-ray diffraction”

Theodor Schneller, RWTH Aachen University

"Chemical solution deposition: A versatile tool for the fabrication of complex metal oxide thin films for electronic devices"

Anders B. Blichfeld, Aarhus University & NTNU Oslo

“Pair Distribution Function Measurements on Thermoelectric Thin films: Iron and Zinc Antimonides”

Ann-Christin Dippel, DESY

“*In situ* structural study of thin films on multiple length scales during physical and chemical growth processes”

11:00 – 11:30 Poster session & coffee and snacks

11:30 – 13:30 Soft matter thin films and liquid interfaces

chair: Milena Lippmann

Johannes Will, FAU Erlangen

“Tailoring thin interfacial layers in MAPbI₃ interfaces”

Diana Haas, DESY

“(GI)SAXS possibilities at P08”

Marvin Berlinghof, FAU Erlangen

“In-situ grazing incidence analysis of doctor-bladed printed samples at P08”

Patrick Huber, TU Hamburg-Harburg

“Seeing confined liquids with X-rays: How molecular fluids arrange in and huddle through nanoporous solids”

Markus Mezger, Max-Planck-Institut für Polymerforschung, Mainz

“Structure and Dynamics of Confined Liquids Studied by an X-ray Surface Force Apparatus”

13:30 Concluding remarks

14:00 End of workshop