Program

9th FOCUS Workshop
Photoemission Microscopy

June 21st - 23rd, 2023
Live at the FOCUS factory
in Hünstetten, Germany

Invited Talks

Code	Room	Time	Speaker	Title
Talk 1 Wednesday	Seminar Room	60 min	**Claus M. Schneider,** Forschungszentrum Jülich, Germany	A Route to Quantum Materials: From PEEM to Momentum Microscopy
Talk 2 Thursday	Seminar Room	60 min	**Mike Ramsey,** University of Graz, Austria	Photoemission Orbital Tomography: A renaissance of UV photoemission
Talk 3 Thursday	Seminar Room	60 min	**Martin Aeschlimann,** Technical University of Kaiserslautern, Germany	Ultrafast Spin and Electron Dynamics in Momentum Space and Time
Talk 4 Friday	Seminar Room	60 min	**Olivier Renault,** CEA-Leti, France	NanoESCA in all its states: from 2D materials band structure imaging to chemical mapping of biological tissue

Training & Seminar Part 1

Code	Room	Time	Name	Content
Seminar 1.1 Wednesday	Seminar Room	90 min	**Matthias Escher,** Basic Electron Optics of Photoemission Electron Microscopy	Immersion optics, objective lens, projective lenses, aberrations, imaging
Seminar 1.2 Thursday	Seminar Room	90 min	**Matthias Escher,** Energy-Filtering for Photoemission Electron Microscopy	High-pass-filter, Hemispherical Analyzers, Time-of-Flight-Analyzers
Training 1.1 W&T	PEEM Lab	90 min	**Nils Weber,** Basics of PEEM lens operation	Emphasis on objective and projective lens modes
Training 1.2 W&T	NanoESCA Lab	90 min	**Timna Kühn,** Basics of NanoESCA operation with emphasis on k-space	Field aperture, k-space stigmator and IDEA deflectors

Training & Seminar Part 2

Code	Room	Time	Name	Content
Seminar 2.1 Thursday	Seminar Room	90 min	**M. Patt, D. Pohlenz, M. Escher, M. Schicketanz** PEEM Periphery and Company Tour	NanoESCA/PEEM System, Hg-UV-source: bulb exchange, HIS (VUV), EFM, Company Tour
Seminar 2.2 Friday	Seminar Room	90 min	**Matthias Escher,** 2D Imaging Spin-Filter for Microscopy	Spin-Filter principal, Characterization, Operation
Training 2.1 T&F	PEEM Lab	90 min	**Nils Weber,** TOF-PEEM operation	Using Delay-Line-Detector without pulsed light source, TOF with pulsed light source, k-space and real-space Operation
Training 2.2 T&F	NanoESCA Lab	90 min	**Timna Kühn,** NanoESCA operation	Work-function mapping, k-space Imaging, Micro ARPES, Event Counting