



International Max Planck Research School Functional Interfaces in Physics and Chemistry

In collaboration with the Max Planck-EPFL Center for
Molecular Nanoscience and Technology

Block course on

Methods of modern interface and surface science

When? 7´ 2 morning lectures in October 2016

Where? Fritz Haber Institute
Seminar Room of the Richard-Willstätter-Haus, Faradayweg 10, 14195 Berlin
Subway station: U3 Thielplatz

This course provides an introduction into modern methods to characterize the structural, chemical and dynamical properties of surfaces and interfaces.

Everyone is welcome to attend - no registration required!

	Tue, 04 Oct	Wed, 05 Oct	Thu, 06 Oct	Fri, 07 Oct
9:00-10:30h	Frank Girgsdies (FHI): <i>Introduction to powder X-ray Diffraction</i>	Helmut Kuhlbeck (FHI): <i>Fundamentals of surface characterization by low-energy electron diffraction</i>	Christian Carbogno (FHI): <i>Introduction to ab initio theory of heat transport in the bulk and at surfaces</i>	Bryan Goldsmith (FHI): <i>Introduction to ab initio theory of catalysis at surfaces</i>
11:00-12:30h	Kramer Campen (FHI): <i>Probing of surface vibrational modes with optical SFG</i>	Marc Willinger (FHI): <i>Fundamentals of transmission and scanning electron microscopy</i>	Jörg Polte (FU): <i>Introduction to nanoparticles: basic properties, fabrication, characterization</i>	Axel Knop-Gericke (FHI): <i>X-ray photoelectron spectroscopy for studying functional interfaces</i>

	Mon, 10 Oct	Tue, 11 Oct		Wed, 12 Oct
9:00-10:30h	Katrin Domke (MPI for Polymer Science, Mainz): <i>Optical near-field spectroscopy of surfaces</i>	Georg Heyne (Elab/FHI): <i>Fundamentals of electronic measurements</i>	9:00-11:00h	Discussion meeting: <i>Mid-term reports:</i> Elisabeth Wolf (FHI) Daniela Rolf (FU) <i>PhD-Talk:</i> Xiaoke Li (HU)
11:00-12:30h	Swetlana Schauer mann (Christian Albrechts University Kiel): <i>Probing surface reactivity by molecular beam based techniques</i>	Patrick Schlecht (Elab/FHI): <i>Computer-aided measurement technology: ADC, DAC and network</i>	11:30-13:00h	Sebastian Arndt (PCK Schwedt): <i>Life after the PhD: working as a chemist in industry (A talk by a former IMPRS member)</i>



Humboldt-Universität
zu Berlin (HU)



Fritz-Haber-Institut (FHI)
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