

IMPRS Block Course „Complex Surfaces in Materials Science“

October 4 – 5, and October 8-10, 2012

Thursday, 04.10.	Phys.Chem.-Department at the FHI (main campus: Faradyweg 4-6, build. A, 1st floor)			
	<u>Station 1</u> Fabeckstr. 62	<u>Station 2</u> Fabeckstr. 62	<u>Station 3</u> main campus	<u>Station 4</u> main campus
	Sum-frequency spectroscopy of molecules on a surface (Kramer Campen)	THz spectroscopy of low-energy resonances (Tobias Kampfrath)	Photoelectron spectroscopy with (ultrafast) lasers (Michael Meyer)	Scanning tunneling microscopy (Leonhard Grill)
09.00-10:30 10.45-12:15	group 1 group 2	group 2 group 1	group 3 group 4	group 4 group 3
<i>Lunch break</i>				
13.00-14:30 14.45-17:15	group 3 group 4	group 4 group 3	group 1 group 2	group 2 group 1
Friday, 05.10.	Theory and Mol.Phys.-Department incl. FEL at the FHI (TH in building T, main entrance; MP in building B, main entrance)			
	<u>Station 1</u> Theory Dept.	<u>Station 2</u> Theory Dept.	<u>Station 3</u> Mol. Phys.	<u>Station 4</u> Mol. Phys.
	Ab initio atomistic thermodynamics of surfaces, defects, and clusters (Luca Ghiringhelli Sergey Levchenko; Norina Richter)	Large scale ab initio surface calculations, code development and accuracy of the methods (Volker Blum)	The IR Free Electron Laser at the FHI (Wieland Schöllkopf)	Spectroscopy of Metal Clusters (André Fielicke)
09.00-10:30 10.45-12:15	group 1 group 2	group 2 group 1	group 3 group 4	group 4 group 3
<i>Lunch break</i>				
13.00-14:30 14.45-17:15	group 3 group 4	group 4 group 3	group 1 group 2	group 2 group 1

Monday, 08.10.	Chem.Phys.-Department at FHI (Faradayweg 16, building P, ground floor)			
	<u>Station 1</u> Exploring atomic landscapes with the STM (<i>Niklas Nilius</i>)	<u>Station 2</u> Amorphous structures - Physics and Chemistry (<i>Markus Heyde</i>)	<u>Station 3</u> Model catalysts investigated with Surface Science methods (<i>Shamil Shaikhutdinov</i>)	<u>Station 4</u> Experiences at the liquid-solid interface (<i>Martin Sterrer</i>)
09.00-10:30 10.45-12:15	group 1 group 2	group 2 group 1	group 3 group 4	group 4 group 3
<i>Lunch break</i>				
13.00-14:30 14.45-17:15	group 3 group 4	group 4 group 3	group 1 group 2	group 2 group 1
Tuesday, 09.10.	Inorganic Chemistry-Department at the FHI (Faradayweg 4-6, building F, entrance, ground floor)			
	<u>Station 1</u> Synthesis of functional materials and operational test F 4.03: Automated synthesis (<i>Nygil Thomas</i>) F 1.03a: Kinetic studies (<i>Nygil Thomas/ Benjamin Frank</i>)	<u>Station 2</u> Solid state structure F 1.02: Thermal analysis (<i>Andrey Tarasov</i>) F 1.02: XRD (<i>Frank Girgsdies</i>) F 202a: Raman Spectroscopy (<i>Oliver Korup</i>)	<u>Station 3</u> Electronic properties and surface F 3.02c: Conductivity measurements (<i>Maik Eichelbaum</i>) F 3.16: Microcalorimetry (<i>Sabine Wrabetz</i>) F 2.xx Laboratory and synchrotron-based PES (<i>Dirk Rosenthal, Benjamin Johnson</i>)	<u>Station 4</u> Microstructure F 1.04: Electron microscopic investigation of catalyst materials (<i>Marc Willinger</i>) Lab Tour EM (<i>Marc Willinger</i>)
09.00-10:30 10.45-12:15	group 1 group 2	group 2 group 1	group 3 group 4	group 4 group 3
<i>Lunch break</i>				
13.00-14:30 14.45-17:15	group 3 group 4	group 4 group 3	group 1 group 2	group 2 group 1

Wed.10.10.	HU-Berlin und SMART (at BESSY II)			
	<u>Station 1</u> Brook-Taylor-Str.2 STM simulations of the clean and defective TiO₂(110) surface" <i>(Christopher Penschke)</i> Assessment of quantum chemical methods: the Be dimer <i>(Florian Bischoff)</i>	<u>Station 2</u> Brook-Taylor-Str.2 to be announced <i>(Klaus Rademann)</i>	<u>Station 3</u> Brook-Taylor-Str.2 „Molekülcluster“ <i>(Wolfgang Christen)</i>	<u>Station 4</u> Albert-Einstein-Str.15 (inside) SMART <i>(Thomas Schmidt)</i>
09.00-10:30	group 1	group 2	group 3	group 4
10.45-12:15	group 2	group 1	group 4	group 3
<i>Lunch break</i>				
13.00-14:30	group 3	group 4	group 1	group 2
14.45-17:15	group 4	group 3	group 2	group 1