### Sunday, 27 November 2011

17:00 – 21:00 Registration

from 18:30 WELCOME BUFFET / informal get together

#### Monday, 28 November 2011

8:00 8:45 – 9:00	BREAKFAST Scientific Organization	Welcome and opening remarks
	Ernst Dreisigacker	About the Wilhelm and Else Heraeus Foundation
9:00 – 10:00	Jascha Repp	Scanning tunneling spectroscopy and atomic force microscopy of molecules on thin insulating films
10:00 – 11:00	Leo Gross	The role of tip functionalization for high- resolution molecular imaging with AFM and STM
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:30	Ivan Brihuega	Point defects in graphene systems
12:30 12:35	Conference Photo (in the front of the Physikzentrum)  LUNCH	

### Monday, 28 November 2011

14:00 – 15:00	Pavel Jelinek	Theoretical understanding of Scanning probe microscopy
15:00 – 16:00	Jörg Kröger	Investigation into the spin-polarized electron transport through single atoms and molecules
16:00 – 16:30	COFFEE BREAK	and moreouse
	Kirsten von Bergmann	Complex magnetic structures on the
16:30 – 17:30	Ç	atomic scale revealed by spin-polarized STM
17:30 – 18:30	Stefan Heinze	Theory and models of spin-sensitive scanning probe microscopy
19:00	DINNER	scanning probe interescopy
. 5. 5	Followed by a social evening on invitation of the Wilhelm and Else Heraeus Foundation in the Physikzentrum	

## Tuesday, 29 November 2011

8:00	BREAKFAST	
9:00 – 10:00	Markus Heyde	Surface science approach to model catalysis by atomic force microscopy
10:00 – 11:00	Alexander Schwarz	Magnetic exchange force microscopy and spectroscopy
11:00 - 11:30	COFFEE BREAK	
11:30 – 12:30	Willi Auwärter	Nanochemistry with functional molecules – a 2D perspective
12:30	LUNCH	
14:00 – 15:00	Isabel Fernandez Torrente	Molecular charge transfer processes on metal/organic interfaces
15:00 – 16:00	Hélène le Sueur	Tunneling spectroscopy of mesoscopic devices around 20mK
16:00 - 16:30	COFFEE BREAK	
	Christian Ast	Construction and first results of an STM operating at mK temperatures
16:30 – 17:30		operating at mix temperatures
17:30 – 18:30	Martin Wenderoth	Scanning tunneling potentiometry: Mapping local transport field on the atomic scale
19:00	DINNER	
from 20:00	Poster session I	

## Wednesday, 30 November 2011

8:00	BREAKFAST	
9:00 – 10:00	Jens Wiebe	Magnetometry of single atoms and bottom-up nanostructures using spin-polarized STM
10:00 – 11:00	Cyrus Hirjibehedin	Building a magnet one atom at a time: STM Studies of magnetic nano-structures
11:00 - 11:30	COFFEE BREAK	
11:30 – 12:30	Laurent Limot	Detecting spin transport across single objects
12:30	LUNCH	-
14:00 – 15:00	Yuriy Mokrousov	Topological concepts in electronic transport
15:00 – 16:00	Maarten Wegewijs	Spin-quadrupoletronics: Transport of spin-anisotropy without spin current
16:00 – 16:30	COFFEE BREAK	opin amoutopy manout opin can one
	Guillaume Schull	Electronic and optical properties of
16:30 – 17:30		molecular and atomic contacts
18:30	DINNER	
from 19:30	Poster session II	

### Thursday, 1 December 2011

8:00 9:00 – 10:00	BREAKFAST Peter Wahl	Kondo effect in STM: From single impurity physics to quantum criticality Quantum transport from first principles
10:00 – 11:00	Thomas Frederiksen	
	COFFEE BREAK Sebastian Loth	Speeding up scanning tunneling microscopy into the nanosecond range
12:30 – 12:45	Scientific Organization	Closing remarks and poster awards
12:45	LUNCH	