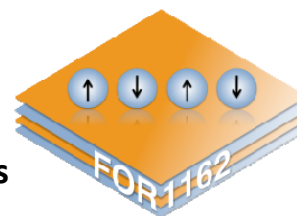Workshop of DFG Research Unit FOR 1162 on
Correlated Electrons in Low Dimensions:
Surfaces and Interfaces as Tunable Model Systems
DPG-Physikzentrum Bad Honnef
09 – 11 March 2011

Program

Wednesday 09 March 2011

from 17:00		Arrival at Physikzentrum Bad Honnef
from 19:00		Buffet-style dinner

Thursday 10 March 2011

8:00		Breakfast
8:40 – 8:45	R. Claessen (U Würzburg)	Welcome
8:45 – 9:45	G. Sawatzky (UBC, Vancouver)	*Oxide heterostructures and interface states*
9:45 – 10:45	J.-M. Triscone (U Geneva)	Electric field control of the electronic properties at the $LaAlO_3/SrTiO_3$ interface and in nickelate ultrathin films
10:45 – 11:15		Coffee Break / Posters FOR 1162
11:15 – 12:00	A. Santander-Syro (U Paris-Sud)	Discovery of a novel metallic two-dimensional electron gas with universal subbands at the surface of $SrTiO_3$
12:00 – 12:45	M. Haverkort (MPI-FKF, Stuttgart)	Theory of resonant inelastic x-ray scattering by collective magnetic excitations
12:45 – 14:15		Lunch
14:15 – 15:15	Th. Seyller (U Erlangen-Nürnberg)	*Wonderful world of graphene*
15:15 – 16:15	S. Wessel (RWTH Aachen)	Correlated electrons on the honeycomb lattice
16:15 – 16:45		Coffee Break / Posters FOR 1162
16:45 – 17:45	H. Weitering (U of Tennessee)	Electronic instabilities, fluctuations, and transport in epitaxial quantum chains
17:45 – 18:30	J. Schäfer (U Würzburg)	Tomonaga-Luttinger liquid physics in atomic nanowires
18:30 – 19:15	Gang Li (U Würzburg)	Geometrical frustration and the competing phases of the Sn/Si surface systems
from 19:15		Dinner and Discussions

Friday 11 March 2011

8:00		Breakfast
9:00 – 10:00	C. Laubschat (TU Dresden)	Kondo physics in layered compounds
10:00 – 11:00	J. Kroha (U Bonn)	Effective two-impurity Kondo systems and quantum phase transitions in Heavy Fermion compounds
11:00 – 11:30		Coffee Break / Posters FOR 1162
11:30 – 12:30	P. Wahl (MPI-FKF, Stuttgart)	Towards quantum criticality in atomic point contacts
12:30		Lunch / End of Workshop

*tentative title