

Workshop of DFG- and NOW- Research Units FOR 1700, FOR 1162 and FOM 1D on

Physics at the borderline between 1D and 2D

DPG-Physikzentrum Bad Honnef

13 – 15 February 2013

Program

Wednesday, 13 February 2013

From 13:00

Arrival Physikzentrum Bad Honnef

15:00	Welcome	Presentation of FOM-1D, FOR1162, FOR1700
15:40	Hanno Weitering -invited-	Polaronic transport and current blockades in epitaxial silicide nanowires and nanowire arrays.

16:30-17:10

Coffee break

17:10 – 17:50	Eric Jeckelmann	Physical scales of one-dimensional phenomena in real systems
17:50 -18:30	Christoph Tegenkamp	Spin density waves in strongly interacting Pb wires on Si(557)
18:30 – 19:00	Julian Aulbach	Low-temperature superstructure of Au-induced atom chains on high-index silicon surfaces

From 19:00

Buffet-style dinner

Thursday,

14 February 2013

7:45

Breakfast

8:50-9:30 Raoul van Gastel Strain- and electronically stabilized low dimensional systems studied by LEEM

9:30-10:10 Martin Hohenadler Interaction-range effects in one dimension

10:10-10:50 Friedhelm Bechstedt "Optical excitations in 1D and 2D systems from first principles".

10:50-11:20

Coffee break /Posters

11:20-12:10 Shuji Hasegawa Topological and superconducting surface states
-invited-

12:10-12:50 Jörg Schäfer Three-Dimensional Spin Texture of the Fermi Surface of a Strongly Spin Orbit Coupled Interface

12:50-14:30

Lunch

14:30-15:10 Sven Rogge Solid state molecules

15:10-15:50 Jan van Ruitenbeek Experimental approach towards three-terminal single-molecule electron transport

15:50-16:20

Coffee break /Posters

16:20-17:10 Walt de Heer Structured epitaxial graphene
-invited-

17:10-17:40 Lydia El-Kareh "Quasi-particle interference mapping of electronic states in clean and Bi-covered fcc (111) surfaces"

17:40-19:00 Poster session

From 19:15

Dinner and Discussions

Friday

15 February 2013

7:45

Breakfast

8:40-9:30

Leonid Glazman (Yale)
-invited-

Effect of charge disorder on the conduction along the edge of a two-dimensional topological insulator

9:30-10:10

Annemarie Pucci

Surface Optical Spectroscopy of Metal Nanostructures

10:10-10:50

Martin Wolf

Ultrafast Dynamics of CDW systems probed by time-resolved ARPES

10:50-11:20

Coffee break /Posters

11:20-12:00

Achim Schöll

Photoelectron spectroscopy of organic layers and interfaces: From Orbital Mapping to Kondo resonances

12:00-12:30

Gang Li

Competing phases of the Hubbard model on a triangular lattice - insights from the entropy

12:30

Lunch / End of Workshop