



SFB 1083

Structure and Dynamics
of Internal Interfaces

Winter School 2019

17.02.-21.02.2019

Marburger Haus, Kleinwalsertal, Austria



Information/Registration: Luisse.Rost@physik.uni-marburg.de

Winter School 2019

Scientific Program

Sunday, 17.02.

8:45 **Meetup** at Krumbogen opposite gas station Aral near main train station Marburg

9:00 **Departure** from Marburg

12:00- 14:00 *Lunch break Rothenburg ob der Tauber*

17:00 **Arrival** at Hirscheegg

18:00 *Dinner*

20:00 **Welcome remarks (student speaker)**
program preview and get to know everybody

Monday, 18.02.



Session 1 **Chair: Sebastian Gies**

9:00- 9:30 **Jannick Lehr** (*B7 Stolz*)
Basics of MOVPE

9:30- 10:00 **Oliver Maßmeyer** (*A5 Volz*)
In-situ observation of MOVPE epitaxial growth

10:00- 10:20 *Coffee Break*

10:20- 10:50 **Jan- Niclas Luy** (*A6 Tonner*)
Suppressing termination reactions in interface growth

10:50- 11:20 **Lasse Münster** (*B6 Wallauer*)
Introduction to High Harmonic Generation and Momentum Microscopy

12:00- 16:00 *Lunch break*

Session 2 **Chair: Klaus Stallberg**

16:00- 16:30 **Sebastian Gies** (*B3 M Koch*)
Optical spectroscopy of interfaces

16:30-17:00 **Anna-Katherina Hansmann** (*B8 Berger*)
How to calculate vibronic spectra - a glance into theory

17:00- 17:15 **Poster Pitch for Poster Session 1**

18:00- 20:00 *Dinner*

20:00 **Poster Session 1**

Poster Session 1 (Monday, 18.02.)

Michael Kothe (A2 Witte)

Titanyl phthalocyanine showing molecularly flat growth

Maximilian Dreher (A2 Witte)

Polarized Microscopy Analysis

Maik Schöniger (A4 Gottfried)

Investigation of Metal/Organic Interfaces by Adsorption Calorimetry

Mark Hutter (A4 Gottfried)

TPD Chamber - Detailed View

You-Ron Lin (A12 Bocquet, FZ Jülich)

Expitaxially grown twisted bilayer graphene on SiC(0001)

Daniel Anders (B2 Chatterjee, Gießen)

Laterally-structured dielectrics by area-selective ALD

Luise Rost (B3 Heimbrodt)

Charge transfer excitons in (Ga,In)As/GaAs/Ga(As,Sb) heterostructures with modified interfaces

Marleen Axt (B5 Mette)

Temperature Dependent SHG Pump-Probe Experiments on Two Dimensional Materials

Tuesday, 19.02.



Session 3 Chair: Oliver Maßmeier

9:00- 10:00 **Darius Günther** (*A2 Witte*)
Microstructural and Morphological Investigations on Molecular Thin Films

10:00-10:20 *Coffee Break*

10:20- 10:50 **Miriam Raths** (*A12 Kumpf, FZ Jülich*)
Low Energy Electron Microscopy

10:50- 11:20 **Stefan Renato Kachel** (*A4 Gottfried*)
Technical Challenges in TPD and PEN and PFP on MoS₂

12:00- 16:00 *Lunch break*

Session 4 Chair: Maik Schöniger

16:00- 16:30 **Matthias Tripp and Jannick Meinecke** (*A8 Koert*)
Performing Organic Chemistry: From Literature research to Synthesis of Functional Materials

16:30- 17:00 **Nafiseh Samiseresht** (*A12 Tautz, FZ Jülich*)
EELS and XSW

17:00- 17:15 **Poster Pitch for Poster Session 2**

18:00- 20:00 *Dinner*

20:00 **Poster Session 2**

Poster Session 2 (Tuesday, 19.02.)

Felix Widdascheck (A2 Witte)

Controlling the Work Function of Metals by Means of Phthalocyanine Thin Films

Lukas Ruppenthal (A4 Gottfried)

Surface Chemical Bond of Alternant vs. Non-Alternant Aromatic Isomers

Claudio Krug (A4 Gottfried)

Ring/Chain Competition in Non-Alternant Organometallic Oligomers

Lukas Eschmann (A13 Rohlfing, Münster)

Addressing the coverage dependence of the NTCDA/Ag(111) interface state within ab-initio calculations

Melanie Fey (B2 Chatterjee, Gießen)

Formation Dynamics of Charge-Transfer States at Pentacene / Perfluoropentacene Interfaces

Nico Hofeditz (B3 Heimbrod))

Optical Spectroscopy and Time-Resolved Spectroscopy on TET:F6 blends

Alexa Adamkiewicz (B5 Höfer)

Electronically Induced Manipulation of Tetrahydrofuran and Diethyl Ether on Si(001)

Wednesday, 20.02.



Session 5 **Chair: Michael Kothe**

- 9:00- 9:30 **Philip Klement** (*B2 Chatterjee, Gießen*)
Atomic Layer Deposition: from fundamentals to applications
- 9:30- 10:00 **Markus Stein** (*B3 M Koch*)
Optical pump - probe spectroscopy
- 10:00- 10:30 **Klaus Stallberg** (*B6 Höfer*)
Probing unoccupied electronic states with two-photon photoemission
- 12:00- 16:00 *Lunch break*

Session 6 **Chair: Anna-Katherina Hansmann**

- 16:00- 16:30 **Eugenie Geringer** (*A9 Dehnen*)
Synthesis and derivatization of molecular tetrel chalcogenide compounds
- 16:30-17:00 **Philipp Maruhn** (*A13 Rohlfing, Münster*)
Electronic excitations: The GW approximation and Bethe-Salpeter equation
- 18:00- 20:00 *Dinner*
- 20:00 **SFB 1083 student members meeting, feedback, final evening**

Thursday, 21.02.



10:00 **Departure** in Hirschegg
12:00- 14:00 *Lunch break in a city on the way*
18:00 **Arrival** in Marburg

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