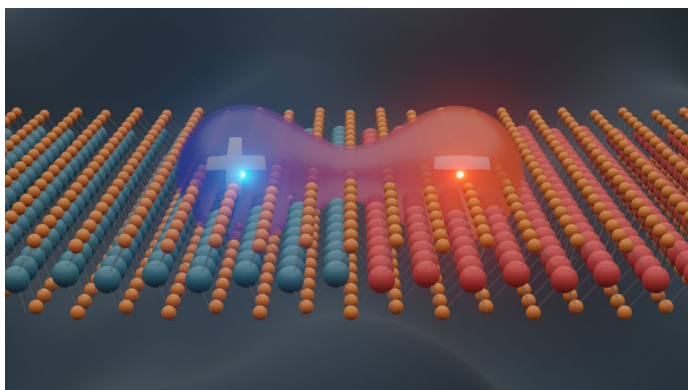


SFB Retreat 2023

Structure and Dynamics of Internal Interfaces

25.09. to 28.09.2023 Resort “Der Schöne Asten” in Winterberg



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SFB Retreat 2023

Structure and Dynamics of Internal Interfaces

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The retreat is organized by the collaborative research center (SFB 1083) and will take place in Winterberg. Although famous for its broad variety of winter sports, Winterberg is also worth visiting in summer times due to nice mountains and beautiful landscape. Aimed at PhDs and postdocs as well as the project leaders, the majority of the SFB members meet and discuss their latest research with their colleagues.

The research topics range from 2D materials and exciton dynamics to the synthesis of novel organic and inorganic interfaces. There will be seven focus sessions as well as two poster pitches and sessions on the following topics:

- Synthesis and Structure of Novel Organic and Inorganic Interfaces
- 2D Materials and van der Waals Heterostructures
- Heterostructures for New Devices
- Charge Transfer and Exciton Dynamics at Interfaces

Timetable

	Monday		Tuesday
12:00	<i>Arrival and Check-in</i>	08:00 - 09:00	<i>Breakfast</i>
12:30 - 14:00	<i>Lunch</i>	09:00 - 10:30	Session IIIa
14:00 - 14:10	<i>Welcome</i>	10:30 - 11:00	<i>Break</i>
14:10 - 15:40	Session I	11:00 - 11:45	Session IIIb
15:40 - 16:10	<i>Break</i>	11:45 - 12:45	Poster Pitch I
16:10 - 17:40	Session II	12:45 - 14:15	<i>Lunch</i>
17:40 - 19:00	<i>Dinner</i>	14:15 - 18:15	<i>Networking & Excursion</i>
19:00	<i>Networking</i>	18:15 - 19:00	<i>Dinner</i>
		19:00 - 21:00	Poster Session I
	Wednesday		Thursday
08:00 - 09:00	<i>Breakfast</i>	08:00 - 09:00	<i>Breakfast</i>
09:00 - 10:30	Session IV	09:00 - 10:30	Session VI
10:30 - 11:00	<i>Break</i>	10:30 - 11:00	<i>Break and Check-Out</i>
11:00 - 12:30	Session V	11:00 - 12:20	Session VII
12:30 - 14:00	<i>Lunch</i>	12:20 - 12:30	<i>Closing remarks</i>
14:00 - 15:00	Poster Pitch II	12:30 - 14:00	<i>Lunch</i>
15:00 - 18:00	<i>Networking & Excursion</i>	14:00	<i>Departure</i>
18:00 - 19:00	<i>Dinner</i>		
19:00 - 21:00	Poster Session II		

Scientific Program

Monday, 25.09.2023

From 12:00	<i>Arrival and Check-in</i>	<u>Resort Der Schöne Asten</u>
12:30 – 14:00	<i>Lunch</i>	
14:00 – 14:10	Johanna Heine und Robert Wallauer <i>Opening Remarks</i>	
Session I	(Chair: Sangam Chatterjee)	
14:10 – 14:20	Introduction to topic by Prof. Gregor Witte and Prof. Ralf Tonner-Zech	
14:20 – 15:00	Prof. Gregor Witte (SFB A2 – Uni Marburg) <i>Excitons in oriented organic thin films and fabrication of organic/TMD hybrids</i>	
15:00 – 15:40	Prof. Ralf Tonner-Zech (SFB A6 – Uni Leipzig) <i>Organic/Inorganic interfaces from density functional theory</i>	
15:40 – 16:10	<i>Coffee Break</i>	
Session II	(Chair: Ralf Tonner-Zech)	
16:10 – 16:20	Introduction to topic by Dr. Johanna Heine	
16:20 – 17:00	Dr. Johanna Heine (SFB A15 – Uni Marburg) <i>Designing New Interfaces with 2D Perovskites and Ionic 2D Materials</i>	
17:00 – 17:40	Prof. Sangam Chatterjee (SFB B2/B13 – Uni Gießen) <i>Charge carrier dynamics and polarization properties of 2D perovskites</i>	
17:40 – 19:00	<i>Dinner</i>	
19:00	<i>Networking</i>	

Tuesday, 26.09.2023

Session IIIa (Chair: Gregor Witte)

09:00 – 09:10 Introduction to topic by **Dr. Robert Wallauer**

09:10 – 09:30 **Prof. Christian Kumpf (SFB A12 – FZ Jülich)**
Towards Large-Angle Twisted Bilayer Graphene: Newest results

09:30 – 09:50 **Dr. Sabine Wenzel (SFB A12 – FZ Jülich)**
Scanning Tunneling Techniques on Single Molecules

09:50 – 10:30 **Prof. Michael Rohlfing (SFB A13 – Uni Münster)**
Theory of electronic states in weakly bound heterostructures: organic layers and electron-phonon interaction

10:30 – 11:00 *Coffee Break*

Session IIIb (Chair: Peter Jakob)

11:00 – 11:45 **Prof. Ulrich Höfer (SFB B6/B11 – Uni Marburg)**
Time-resolved momentum microscopy and SHG imaging microscopy of exciton dynamics in TMDC monolayers and heterostructures

11:45 – 12:45 **Poster Pitch I (Chair: Johanna Heine)**

12:45 – 14:15 *Lunch Break*

14:15 – 18:15 *Networking, discussions and new collaborations in small groups and/or hike around Winterberg*

18:15 – 19:00 *Dinner*

19:00 – 21:00 **Poster Session I**

Wednesday, 27.09.2023

Session IV (Chair: Kerstin Volz)

09:00 – 09:45 **Prof. Michael Gottfried (SFB A4/A16 – Uni Marburg)**
On-Surface Synthesis Unlocks New Carbon Materials

09:45 – 10:30 **Prof. Michael Dürr (SFB A8 – Uni Gießen)**
Organic molecular architectures synthesized on Si(001)

10:30 – 11:00 *Coffee Break*

Session V (Chair: Michael Gottfried)

11:00 – 11:45 **Dr. Thilo Hepp (SFB A14/B13 – Uni Marburg)**
MOCVD growth of 2D materials and Bi containing III-V semiconductors

11:45 – 12:30 **Prof. Kerstin Volz (SFB A5/A14 – Uni Marburg)**
Atomic reconstructions and electric fields imaged by TEM

12:30 – 14:00 *Lunch Break*

14:00 – 15:00 **Poster Pitch II (Chair: Robert Wallauer)**

15:00 – 18:00 *Networking, discussions and new collaborations in small groups*

18:00 – 19:00 *Dinner*

19:00 – 21:00 **Poster Session II**

Thursday, 28.09.2022

Session VI (Chair: Michael Dürr)

09:00 – 09:45 **Prof. Marina Gerhard (SFB B10 – Uni Marburg)**
Transport and trapping of excitons in molecular heterostructures

09:45 – 10:30 **Dr. Roberto Rosati (SFB B9 – Uni Marburg)**
Exciton transport in 2D semiconductors

10:30 – 11:00 *Coffee Break and Check-out*

Session VII (Chair: Marina Gerhard)

11:00 – 11:40 **Alexa Adamkiewicz (SFB B6 – Uni Marburg)**
Time-resolved photoemission orbital tomography at the CuPc/O/Cu(001) interface

11:40 – 12:20 **Prof. Peter Jakob (SFB A3 – Uni Marburg)**
Temperature Effects in Molecular Layers

12:20 – 12:30 *Closing remarks*

12:30 – 14:00 *Lunch*

14:00 *Departure*

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