



GRK 1782 & SFB 1083

2nd Joint Seminar

Kloster Volkenroda
September 2-6, 2018



Scientific Program

Kloster Volkenroda

Amtshof 3, 99998 Körner
Tel. 036025 - 5590

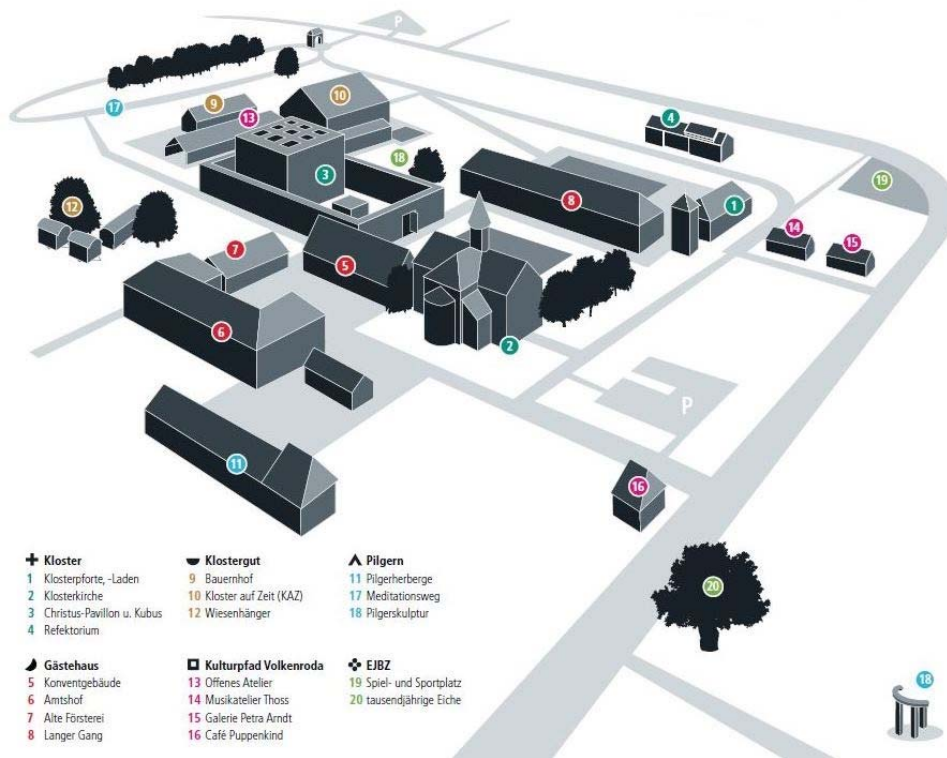


Image Kloster Volkenroda

Program Brief

02.09.2018 Sunday

- 14:00 s.t. Departure by coach from Stadthalle Marburg (Erwin-Piscator-Haus)
16.30 - 17:00 Check-In
17:00 - 17:25 Coffee
17:25 - 17:30 *Opening Remarks*
17:30 – 18:50 Session: Semiconductor Heterointerfaces I (Chair: Ulrich Höfer)
19:10 - 20:00 Dinner

03.09.2018 Monday

- 08:00 - 08:45 Breakfast*
09:00 – 10:45 **Session: Metal-Organic Interfaces I (Chair: Stefan Tautz)**
10:45 - 11:15 Coffee
11:15 - 13:00 **Session: Metal-Organic Interfaces II (Chair: Gregor Witte)**
13:10 - 14:00 Lunch
15:00 – 16:45 **Session: Interface Excitons (Chair: Sangam Chatterjee)**
16:45 - 17:15 Coffee
17:15 - 19:00 **Session: Semiconductor-Organic Interfaces (Chair: Johanna Heine)**
19:00 - 21:00 BBQ

04.09.2018 Tuesday

- 08:00 - 08:45 Breakfast*
09:00 – 10:45 **Session: Interface Reactions (Chair: Michael Dürr)**
10:45 - 11:15 Coffee
11:15 – 13:00 **Session: Transition Metal Dichalcogenides (Chair: Gerson Mette)**
13:10 – 13:30 Pick up your lunch- & coffee-bag
13:30 - 19:00 Time for discussing current and new collaborations in splittergroups in the Klostergrounds or on a hike to Mühlhausen
19:10 - 20:00 Dinner

05.09.2018 Wednesday

- 08:00 - 08:45 Breakfast*
09:00 – 10:45 **Session: Novel Precursors and Nanomaterials (Chair: Carsten von Hänisch)**
10:45 - 11:15 Coffee
11:15 – 13:00 **Session: Semiconductor Laser Structures (Chair: Wolfgang Stolz)**
13:10 - 14:00 Lunch
15:00 - 16:00 **Poster-Session I**
16:00 - 16:30 Coffee
16:30 - 17:30 **Poster-Session II**
17:30- 18:25 **Session: Semiconductor Heterointerfaces II (Chair: Kerstin Volz)**
19:10 - 20:00 Dinner

06.09.2018 Thursday

- 08:00 - 08:40 Breakfast*
08:40 – 09:00 Check-Out
09:00 – 10:45 **Session: Semiconductor Heterointerfaces III (Chair: Kerstin Volz)**
10:45 - 10:50 *Closing Remarks*
10:50 - 11:20 Coffee
11:30 s.t. Departure by coach to Stadthalle Marburg (Erwin - Piscator - Haus)

Sunday, 2 September 2018

14:00 - 16:30 **Departure by coach at 14:00 (s.t.)** from Stadthalle Marburg (Erwin-Piscator-Haus)

16.30 - 17:00 Check-In

17:00 - 17:25 Coffee

17:25 - 17:30 **Ulrich Höfer**
Opening remarks

Session: Semiconductor Heterointerfaces I (Chair: Ulrich Höfer) 17:30 – 18:50

17:30 - 17:40 Introduction to topic (Ulrich Höfer)

17:40 - 18:10 **Manveer Munde (SFB A5 – Marburg)**
Measuring electric fields at interfaces using STEM

18:10 - 18:25 **Steven Youngkin (SFB B5 – Marburg)**
Coherent phonon spectroscopy of GaP/Si heterostructures

18:25 - 18:50 **Fabian Pieck (GRK – Marburg)**
Exploring the reaction network of the gallium phosphide growth by DFT

19:10 - 20:00 Dinner

Monday, 3 September 2018

08:00 - 08:45 *Breakfast*

Session: Metal-Organic Interfaces I (Chair: Stefan Tautz) 09:00 – 10:45

09:00 - 09:10 Introduction to topic (Stefan Tautz)

09:10 - 09:35 **Klaus Stallberg (SFB B6 – Marburg)**

Unoccupied electronic structure and excitation dynamics of the CuPc/PTCDA heterosystem on Ag(111)

09:35 - 09:55 **Lukas Eschmann (SFB A13 – Münster)**

Electronic structure of the Ag(111) Shockley state in NTCDA and PTCDA adsorbate systems

09:55 - 10:20 **Sebastian Thussing (SFB A3 – Marburg)**

Structure and thermal stability of MePc - PTCDA heterostructures

10:20 - 10:45 **Janina Felter (SFB A12 – Jülich)**

Organic-inorganic interfaces: The case of PTCDA/hBN/Cu(111) seen by low energy electron microscopy

10:45 - 11:15 *Coffee*

Session: Metal-Organic Interfaces II (Chair: Gregor Witte) 11:15 - 13:00

11:15 - 11:20 Introduction to topic (Gregor Witte)

11:20 - 11:45 **Benedikt Klein (SFB A4 – Marburg)**

Metal/organic interfaces of alternant and non-alternant aromatic molecules

11:45 - 12:10 **Stefan Kachel (SFB A4 – Marburg)**

HAXPES on metal/organic interfaces

12:10 - 12:35 **Felix Widdascheck (SFB A2 – Marburg)**

Controlling the work function of metals by means of phthalocyanine contact primer and evolution of TiOPc films

12:35 - 13:00 **Alrun Hauke (SFB A2 – Marburg)**

Charge carrier injection in organic electronic devices

13:10 - 14:00 *Lunch*

Monday, 3 September 2018 (continued)

Session: Interface Excitons (Chair: Sangam Chatterjee) 15:00 – 16:45

15:00 - 15:05 Introduction to topic (Sangam Chatterjee)

15:05 - 15:40 **Anna Hansmann & Steffen Giesen (SFB B8 – Marburg)**

Theoretical investigations of charge transfer at the pentacene/perfluoropentacene interface

15:40 - 16:00 **Melanie Fey (SFB B2 – Gießen)**

Formation dynamics of charge-transfer states at pentacene/perfluoropentacene interfaces

16:00 - 16:20 **Markus Stein (SFB B3 – Marburg)**

Charge-transfer excitons and their dynamics in semiconductor heterostructures

16:20 - 16:40 **Lasse Münster (SFB B6 – Marburg)**

Imaging of electron dynamics in MoS_2 with time-resolved photoelectron spectroscopy

16:45 - 17:15 *Coffee*

Session: Semiconductor-Organic Interfaces (Chair: Johanna Heine) 17:15 - 19:00

17:15 - 17:25 Introduction to topic (Tobias Breuer)

17:25 – 17:50 **Tobias Breuer (SFB A2 – Marburg)**

*Interfaces between organic semiconductors and (2D)-TMDCs:
Influence of composition and morphology*

17:50 – 18:10 **Natalie Dehnhardt (SFB A11 – Marburg)**

Bismuth halides as ionic 2D Materials

18:10 – 18:30 **Philip Klement (SFB B2 – Gießen)**

Effects of the Fermi level energy on the adsorption of O_2 to monolayer MoS_2

18:30 – 18:55 **Tamam Bohamud (GRK – Marburg)**

Field-induced lateral movement of adsorbates on $\text{Si}(001)$

19:00 - 21:00 *BBQ*

Tuesday, 4 September 2018

08:00 - 08:45 *Breakfast*

Session: Interface Reactions (Chair: Michael Dürr) 09:00 – 10:45

- 09:00 - 09:05 Introduction to topic (Michael Dürr)
- 09:05 - 09:30 **Julian Heep (GRK – Gießen)**
Reaction of azides on bare and functionalized Si(001)
- 09:30 - 09:55 **Jannick Meinecke (SFB A8 – Marburg)**
Synthesis of novel pentacene derivatives and cyclooctynes for the study of internal interfaces
- 09:55 - 10:20 **Jan Herritsch (SFB A4 – Marburg)**
Interface reactions of corroles
- 10:20 - 10:45 **Jan-Niclas Luy (SFB A6 – Marburg)**
Computational insights into solid/organic interfaces

10:45 - 11:15 *Coffee*

Session: Transition Metal Dichalcogenides (Chair: Gerson Mette) 11:15 – 13:00

- 11:15 - 11:25 Introduction to topic (Gerson Mette)
- 11:25 - 11:50 **Jonas Zimmermann (SFB B5 – Marburg)**
Time-resolved SHG imaging microscopy on TMDC monolayers and heterostructures
- 11:50 - 12:10 **Nafiseh Samiseresht (SFB A12 – Jülich)**
Electron energy loss spectroscopy on TMDC materials
- 12:10 - 12:35 **Philipp Marauhn (SFB A13 – Münster)**
Thickness dependent electronic and optical properties of TMDCs within MBPT
- 12:35 - 13:00 **Lars Meckbach (SFB B4 – Marburg)**
Optical gain in TMDC monolayers

13:10 – 13:30 *Pick up your lunch- & coffee-bag*

13:30 - 19:00 Time for discussing current and new collaborations in splittergroups in the Klostergrounds or on a hike to Mühlhausen

19:10 - 20:00 *Dinner*

Wednesday, 5 September 2018

08:00 - 08:45 *Breakfast*

Session: Novel Precursors and Nanomaterials (Chair: Carsten von Hänisch) 09:00 – 10:45

09:00 - 09:05 Introduction to topic (Carsten von Hänisch)

09:05 - 09:30 **Christian Ritter (GRK – Marburg)**
Investigation on the preparation of novel bismuth precursors for MOVPE

09:30 - 09:55 **Oliver Maßmeyer (GRK – Marburg)**
Real time mass spectrometric MOVPE gas phase investigations of DTBAA

09:55 - 10:20 **Eike Dornsiepen (GRK – Marburg)**
Organotetrelchalkogenide clusters with nonlinear optical properties

10:20 - 10:45 **Mikko Wilhelm (GRK – Marburg)**
Optoelectronic coupling between colloidal quantum dots and burrowed quantum wells

10:45 - 11:15 *Coffee*

Session: Semiconductor Laser Structures (Chair: Wolfgang Stolz) 11:15 – 13:00

11:15 - 11:20 Introduction to topic (Wolfgang Stolz)

11:20 - 11:45 **Pirmin Kükelhan (SFB A5 – Marburg)**
Interaction of In and Sb at interfaces in "W"-type quantum well heterostructures

11:45 - 12:10 **Luise Rost (SFB B3 – Marburg)**
Correlation of optical properties and interface morphology in type-II semiconductor heterostructures

12:10 - 12:35 **Lars Bannow (GRK – Marburg)**
From first-principles to optical properties of dilute bismides

12:35 - 13:00 **Maria Weseloh (SFB B7 – Marburg)**
Microscopic modelling and theoretical characterization of GaInAs/GaAsSb W quantum-well heterostructures in semiconductor quantum-well lasers

13:10 - 14:00 *Lunch*

Poster-Session I (15:00 - 16:00) (see list for details)

16:00 - 16:30 *Coffee*

Poster-Session II (16:30 - 17:30) (see list for details)

- P1 **Alexa Adamkiewicz (SFB A8 & GRK – Marburg)**
Electronically induced manipulation of tetrahydrofuran and diethyl ether on Si(001)
- P1 **Paul Nikodemiak & Jannick Meinecke (SFB A8 – Marburg)**
Synthesis of functionalized cyclooctynes
- P1 **Matthias Tripp & Philipp Hofmann (SFB A8 – Marburg)**
Synthesis of aza- and fluoropentacenes and dinaphthothienothiophenes
- P1 **Christian Länger & Timo Glaser (SFB A8 – Gießen)**
Organic building blocks on silicon surfaces
- P1 **Sebastian Flade (SFB A3 – Marburg)**
Identification of PEN - C6 Diels-Alder cycloaddition reaction product
- P1 **Eugenie Geringer (SFB A9 – Marburg)**
Interaction of organotin sulfide clusters with metal atoms
- P1 **Johanna Heine (SFB A11 – Marburg)**
Bismuth(III)iodide as a 2D material for hybrid compounds
- P1 **Nils Mengel (GRK – Gießen)**
Second-harmonic generation in KNbO₃ crystals
- P1 **Marius Müller (GRK – Gießen)**
Nonlinear optical properties of group IV tetraphenyls
- P1 **Tabea Köhler (SFB A4 – Marburg)**
Linear and cyclic graphene nanoribbons
- P1 **Maik Schöniger (SFB A4 – Marburg)**
Calorimetry on metal/organic interfaces
- P2 **Lars Ostheim (GRK – Gießen)**
Transport properties of GaP on Si
- P2 **Maximilian Dreher (SFB A2 – Marburg)**
Interface structure and evolution of DNTT films on noble metal substrates
- P2 **Johannes Völkner (GRK – Marburg)**
Molecular functionalization of surfaces for photoelectrochemical sensors and their microscopic characterization
- P2 **Miriam Raths (SFB A12 – Jülich)**
Real-time investigation of the growth of hexagonal boron nitride on metal surfaces using LEEM
- P2 **Yuzhou Zhou (SFB B6 – Marburg)**
Tomography of unoccupied molecular orbitals at the PTCDA/Ag(111) interface
- P2 **Marleen Axt (SFB B5 – Marburg)**
Towards temperature dependent SHG pump-probe experiments on 2D materials
- P2 **Philipp Marauhn (SFB A13 – Münster)**
Thickness dependent electronic and optical properties of TMDCs within many-body perturbation theory
- P2 **Lukas Eschmann (SFB A13 – Münster)**
Energy Shift of the Ag(111) Shockley State due adsorption of NTCDA
- P2 **Steffen Giesen (SFB B8 – Marburg)**
Calculating electron transfer integrals in a non-orthogonal product wave function approach
- P2 **Anna Hansmann (SFB B8 – Marburg)**
Energy level matching in a molecular picture to design model systems for singlet heterofission

Wednesday, 5 September 2018 (continued)

Session: Semiconductor Heterointerfaces II (Chair: Kerstin Volz) 17:30 - 18:25

17:30 - 17:35 Introduction to topic (Kerstin Volz)

17:35 - 18:00 **You-Ron Lin (SFB A12 – Jülich)**

Twisted bilayer graphene: Photoelectron spectroscopy, electron diffraction and standing waves experiments

18:00 - 18:25 **Julian Veletas (GRK – Gießen)**

Influence of Bi incorporation in quaternary alloys

19:10 - 20:00 *Dinner*

Thursday, 6 September 2018

08:00 - 08:40 *Breakfast*

08:40 – 09:00 Check-Out

Session: Semiconductor Heterointerfaces III (Chair: Kerstin Volz) 09:00 – 10:45

09:00 - 09:05 Introduction to topic (Kerstin Volz)

09:05 - 09:30 **Marcel Kröner (GRK – Marburg)**

Metalorganic vapour phase epitaxy (MOVPE) of monolithic integrated Ga(NAsP) - lasers on exact Si(001)-substrate

09:30 - 09:55 **Florian Dobener (GRK – Gießen)**

Band offset at the Ga(N,As,P)/GaP heterointerface

09:55 - 10:20 **Vitalii Valkovskii (GRK – Marburg)**

Release of carriers from traps enhanced by hopping

10:20 - 10:45 **Saleh Firoozabadi (GRK – Marburg)**

Composition evaluation of SiGe quantum well heterostructures using transmission electron microscopy

10:45 - 10:50 **Kerstin Volz**

Closing remarks

10:50 - 11:20 *Coffee*

11:30 - 14:30 **Departure by coach at 11:30 (s.t.) to Stadthalle Marburg (Erwin - Piscator - Haus)**

Conference Venue Kloster Volkenroda

Kloster Volkenroda was founded in 1131 by the Order of Cistercians near Mühlhausen in Thuringia. The Cistercians derive from a splinter-group of Benedictine monks in the late 11th and early 12th century and are originally characterized by an emphasis on manual labor and self-sufficiency, often with agricultural activities and breweries.

Volkenroda was established with sizable agricultural lands and through donations and pilgrimages able to purchase additional land. Soon after its foundation Kloster Volkenroda became one of the richest and most revered monasteries in Thuringia. Four other monasteries were founded out of Volkenroda, including Kloster Loccum.

During the Thuringian Succession War (1247-1264) the monastery was reinforced with a surrounding wall, towers and gates and hired soldiers. However, at the end of the 15th century misuse of power and bad politics caused a downturn in the monastery's fate. In 1517 the abbot, emboldened by a unit of soldiers sent by the Duke of Saxony, decided to raid the surrounding villages for rebellious peasants and set an example by show trial. A storm by the local peasantry was barely defeated and the peasants released without trial. As part of the Peasants' War (1524-1526) Kloster Volkenroda was attacked in 1525 and partially destroyed by fire. The peasant's ire was particularly strong as the monastery had for a while no longer focused on supporting the poor, but rather enforced harsh in-kind payments in spite of poor harvests and livestock plagues and used their investments in Mühlhausen to influence prices for natural goods and control certain markets. After defeat of the Peasant's Uprise some monks returned, while others had converted or become preachers and teachers or resettled in other monasteries.

Kloster Volkenroda was dissolved in 1540, when the Duke of Saxony converted to Protestantism. Most of the monastery's lands were purchased by the city of Mühlhausen and rented out. The area of the monastery and the forest remained possession of the duke. During the Thirty Year War Volkenroda was further destroyed (1641). In the 17th and 18th century the areal was marked by decay. In 1802 parts of the church were restored and until 1968, when it was declared unsafe, the building served as the local protestant church. At the same time other buildings were inhabited.



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In 1990, first steps towards preservation and repurposing were undertaken. In 1993 the Förderverein Wiederaufbau Kloster Volkenroda e.V. was founded and since 1994 the Jesus-Bruderschaft has established a spiritual community and begun to manage the areal.

Today, the old church, consecrated in 1150, is the eldest remaining Cistercian church in Germany and in 1995 the European Union designated Kloster Volkenroda as cultural heritage of European significance and worthy of preservation.

Participants (PIs in bold, MSc-Students in italics)

Name	Email	Group	SFB-Project	GRK
<i>Adamkiewicz, Alexa</i>	alexa.adamkiewicz@physik.uni-marburg.de	AG Höfer	A8	x
<i>Axt, Marleen</i>	marleen.axt@physik.uni-marburg.de	AG Höfer	B5	
Bannow, Lars	lars.bannow@physik.uni-marburg.de	AG SW Koch		x
Berger, Robert	robert.berger@uni-marburg.de	AG Berger	B8	
Bocquet, François C.	f.posseik@fz-juelich.de (née Bocquet)	AG Tautz, <i>Jülich</i>	A12	
Bohamud, Tamam	tamam.bohamud@physik.uni-marburg.de	AG Höfer		x
Breuer, Tobias	tobias.breuer@physik.uni-marburg.de	AG Witte		
Chatterjee, Sangam	sangam.chatterjee@physik.uni-giessen.de	AG Chatterjee, <i>Gießen</i>	B2	x
Dehnhardt, Natalie	dehnharn@students.uni-marburg.de	AG Heine	A11	
Dobener, Florian	florian.dobener@physik.uni-giessen.de	AG Chatterjee, <i>Gießen</i>		x
Dornsiepen, Eike	eike.dornsiepen@chemie.uni-marburg.de	AG Dehnen		x
<i>Dreher, Maximilian</i>	dreherma@students.uni-marburg.de	AG Witte	A2	
Dürr, Michael	michael.duerr@ap.physik.uni-giessen.de	AG Dürr, <i>Gießen</i>	A8	x
Eckhardt, Bruno	bruno.eckhardt@physik.uni-marburg.de	AG Eckhardt		x
Fan, Qitang	qitang.fan@chemie.uni-marburg.de	AG Gottfried	A4	
Eschmann, Lukas	l.eschmann@uni-muenster.de	AG Rohlfing, <i>Münster</i>	A13	
Felter, Janina	j.felter@fz-juelich.de	AG Kumpf, <i>Jülich</i>	A12	
Fey, Melanie	melanie.fey@exp1.physik.uni-giessen.de	AG Chatterjee, <i>Gießen</i>	B2	
Firoozabadi, Saleh	saleh.firoozabadi@physik.uni-marburg.de	AG Volz		x
Flade, Sebastian	sebastian.flade@physik.uni-marburg.de	AG Jakob	A3	
Geringer, Eugenie	eugenie.geringer@chemie.uni-marburg.de	AG Dehnen	A9	
Giesen, Steffen	giesens@students.uni-marburg.de	AG Berger	B8	
<i>Glaser, Timo</i>	timo.glaser@materialwiss.uni-giessen.de	AG Dürr, <i>Gießen</i>	A8	
v. Hänisch, Carsten	carsten.vonhaenisch@chemie.uni-marburg.de	AG Hänisch		x
Hansmann, Anna	hansmana@students.uni-marburg.de	AG Berger	B8	
Hauke, Alrun	alrun.hauke@physik.uni-marburg.de	AG Witte	A2	
Heep, Julian	julian.heep@ap.physik.uni-giessen.de	AG Dürr, <i>Gießen</i>	A8	
Heimbrodt, Wolfram	wolfram.heimbrodt@physik.uni-marburg.de	AG Heimbrodt	B3	x
Heine, Johanna	johanna.heine@chemie.uni-marburg.de	AG Heine	A11	
Herritsch, Jan	herritsc@students.uni-marburg.de	AG Gottfried	A4	
Höfer, Ulrich	hoefer@physik.uni-marburg.de	AG Höfer	B5,B6	x
Hofmann, Philipp	philipp.hofmann@chemie.uni-marburg.de	AG Koert	A8	
Jakob, Peter	peter.jakob@physik.uni-marburg.de	AG Jakob	A3	
Kachel, Stefan	kachels@staff.uni-marburg.de	AG Gottfried	A4	
Klein, Benedikt	kleinbe@students.uni-marburg.de	AG Gottfried	A4	
Klement, Philip	philip.klement@physik.uni-giessen.de	AG Chatterjee, <i>Gießen</i>	B2	
Koch, Martin	martin.koch@physik.uni-marburg.de	AG M Koch	B3	x
Koch, Stephan W.	stephan.w.koch@physik.uni-marburg.de	AG SW Koch	B4,B7	x
<i>Köhler, Tabea</i>	koehle42@students.uni-marburg.de	AG Gottfried	A4	
Kröner, Marcel	marcel.kroener@physik.uni-marburg.de	AG Stolz		x
Kükelhan, Pirmin	pirmin.kuekelhan@physik.uni-marburg.de	AG Volz	A5	
Kumpf, Christian	c.kumpf@fz-juelich.de	AG Kumpf, <i>Jülich</i>	A12	
Länger, Christian	christian.laenger@ap.physik.uni-giessen.de	AG Dürr, <i>Gießen</i>	A8	
Lin, You-Ron	yo.lin@fz-juelich.de	AG Kumpf, <i>Jülich</i>	A12	
Luy, Jan-Niclas	luyj@students.uni-marburg.de	AG Tonner	A6	
Marauhn, Philipp	p_mara01@uni-muenster.de	AG Rohlfing, <i>Münster</i>	A13	
Maßmeyer, Oliver	oliver.massmeyer@physik.uni-marburg.de	AG Volz		x
Meckbach, Lars	lars.meckbach@physik.uni-marburg.de	AG SW Koch	B4	
Meinecke, Jannick	meineckj@students.uni-marburg.de	AG Koert	A8	

Name	Email	Group	SFB-Project	GRK
<i>Mengel, Nils</i>	nils.mengel@exp1.physik.uni-giessen.de	AG Chatterjee, Gießen		x
Mette, Gerson	gerson.mette@physik.uni-marburg.de	AG Höfer	B5	
Mondal, Badal	badal.mondal@physik.uni-marburg.de	AG Eckhardt		x
<i>Müller, Marius</i>	marius.mueller@materialwiss.uni-giessen.de	AG Chatterjee, Gießen		x
Munde, Manveer	manveer.munde@physik.uni-marburg.de	AG Volz	A5	
<i>Münster, Lasse</i>	muenstel@students.uni-marburg.de	AG Höfer	B6	
Nikodemiak, Paul	paul.nikodemiak@chemie.uni-marburg.de	AG Koert	A8	
Ostheim, Lars	lars.ostheim@physik.uni-giessen.de	AG Klar, Gießen		x
Pfuhl, Helen	sfb@internal-interfaces.de	Office	SFB	
Pieck, Fabian	pieck@students.uni-marburg.de	AG Tonner		x
Raths, Miriam	m.raths@fz-juelich.de	AG Kumpf, Jülich	A12	
Ritter, Christian	christian.ritter@chemie.uni-marburg.de	AG Hänisch		x
Rohlfing, Michael	rohlfm@uni-muenster.de	AG Rohlfing, Münster	A13	
Rost, Luise	luise.rost@physik.uni-marburg.de	AG Heimbrodt	B3	
Samiseresht, Nafiseh	n.samiseresht@fz-juelich.de	AG Tautz, Jülich	A12	
Schöniger, Maik	schoenig@students.uni-marburg.de	AG Gottfried	A4	
Stallberg, Klaus	klaus.stallberg@physik.uni-marburg.de	AG Höfer	B6	
Stein, Markus	markus.stein@physik.uni-marburg.de	AG M Koch	B3	
Stolz, Wolfgang	wolfgang.stolz@physik.uni-marburg.de	AG Stolz	A1, B7	x
Tautz, Stefan	s.tautz@fz-juelich.de	AG Tautz, Jülich	A12	
Thussing, Sebastian	sebastian.thussing@physik.uni-marburg.de	AG Jakob	A3	
Tripp, Matthias	trippm@students.uni-marburg.de	AG Koert	A8	
Valkovskii, Vitalii	vitalii.valkovskii@physik.uni-marburg.de	AG Baranovski		x
Veletas, Julian	julian.veletas@physik.uni-giessen.de	AG Chatterjee, Gießen		x
Völkner, Johannes	via: gregor.witte@physik.uni-marburg.de	AG Witte		x
Volz, Kerstin	kerstin.volz@physik.uni-marburg.de	AG Volz	A5	x
Wallauer, Robert	robert.wallauer@physik.uni-marburg.de	AG Höfer	B6	
Weseloh, Maria	maria.weseloh@physik.uni-marburg.de	AG SW Koch	B7	
Widdascheck, Felix	felix.widdascheck@physik.uni-marburg.de	AG Witte	A2	
Wilhelm, Mikko	mikko.wilhelm@physik.uni-marburg.de	AG Heimbrodt		x
Witte, Gregor	gregor.witte@physik.uni-marburg.de	AG Witte	A2	x
Youngkin, Steven	steven.youngkin@physik.uni-marburg.de	AG Höfer	B5	
<i>Zhou, Yuzhou</i>	zhouyu@students.uni-marburg.de	AG Höfer	B6	
Zimmermann, Jonas	jonas.zimmermann@physik.uni-marburg.de	AG Höfer	B5	

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