

**Joint GSMS/SFB953/PCL Winter School Kirchberg/Tyrol, January 22 – January 26, 2024**

# Program

The program is subject to change.

## Monday, January 22

Traveling to Kirchberg by train, car or individual transport

~ 10:00 a.m. Bus departs from Erlangen, Nikolaus-Fiebiger-Str. 10

~ 4:00 p.m. Bus arrives in Kirchberg, check-in

~4:00 p.m. Coffee and Welcome Reception

4:45 p.m. Opening Ceremony

4:50 p.m. Session I; Chair: Norbert Jux

4:50 p.m. **Janina Buck** (Hirsch)

*Windmill-HBCs: Synthesis and Characterization of novel threefold substituted HBC Derivatives*

5:15 p.m. **Lukas Santiago Diaz** (Guldi)

*Benzo(ghi)perylene-TCNQ - An Organic Charge-Transfer Complex*

5:40 p.m. **Britta Maib** (PCL Maultzsch)

*Internal Photoelectrospectroscopy on an InAs Quantum Dot – Application to Carbon Nanoribbons?*

6:05 p.m. Dinner

7:45 p.m. Session II; Chair: Dirk Guldi

7:45 p.m. **Maryam Akhgaramirabadi** (Kataev)

*Development of selective fluorescent supramolecular for nitrate detection*

8:10 p.m. **René Weiß** (Guldi)

*The Interplay Between Singlet Fission and Triplet-Triplet Annihilation Up-Conversion of Tetracene Dimers and Oligomer*

8:35 p.m. **Jannis Kockläuner** (Golze PCL)

*Accurate prediction of multi-electron core excitations*

8:35 p.m. **Yannick Wingerter** (Hirsch)

*Dreamy chemistry and the usual nightmares - Endeavors in NBD discovery*

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**Tuesday, January 23**

- 9:00 a.m. Breakfast
  - 9:00 a.m. - Ph. D. students: project-oriented group work  
Professors: Status quo report and discussion on GSMS status; new funding
  
  - 2:30 a.m. Session III; Chair: Sabine Maier
  
  - 2:30 p.m. **Johannes Voß** (Halik)  
*Nitrate removal through magnetic, surface-functionalized nanoparticles*
  - 2:55 p.m. **Elena Mack** (Guldi PCL)  
0D-2D nanojunctions – a study in dispersion and solid state
  - 3:20 p.m. **Sebastian Hauk** (Hirsch)  
*Synthesis of Discotic Amphiphilic Porphyrin-PAH Conjugates”*.
  
  - 3:45 p.m. Coffee break
  - 4:15 p.m. Session IV; Chair: Marcus Halik
  
  - 4:15 p.m. **Linda Feuerstein** (Weidinger PCL)  
*Local electric field effects at C2N-type nitrogen-rich carbon electrodes studied by electrochemical Stark spectroscopy*
  - 4:40 p.m. **Anna-Sophie Wollny** (Guldi)  
*Investigation of the Excited-State Dynamics of BODIPY-Pentacene Dimer Conjugates and [2.2]Paracyclophane Bridged Oligo Pentacenes*
  - 5:05 p.m. **Lei Ye** (Drewello)  
*Mass Spectrometry Study of Host-Guest Complexes between Angle-Strained Alkyne-Containing Cycloparaphenylenes and Fullerenes*
  - 5:30 p.m. **Filip Bozinovic** (Jux)  
*From planar graphene nanoribbons to helical graphene nanoribbon bilayers*
  
  - 6:00 p.m. Dinner
  - 7:45 p.m. Session V; Chair: Frank Hauke
  
  - 7:45 p.m. **Kevin Gerein** (Hirsch PCL)  
*Laser-activated Covalent 2D Engineering of Graphene*
  - 8:10 p.m. **Florian Steiger** (Pérez-Ojeda)  
*Carbon Nano Onions: A Study on their Properties and further Development*
  - 8:35 p.m. **Shreya Garg** (Maier PCL)  
*A walk through the UHV: Intricacies of STM*
  - 9:00 p.m. **Sven Mörsel** (Hirsch)  
*Sulfur- and Nitrogen-substituted Hexa-peri-hexabenzocoronenes*
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**Joint GSMS/SFB953/PCL Winter School Kirchberg/Tyrol, January 22 – January 26, 2024**

**Wednesday, January 24**

- 9:00 a.m. Breakfast
- 9:00 a.m. - Ph. D. students: project-oriented group work  
Professors: Status quo report and discussion on GSMS status; new funding
- 2:30 a.m. Session VI; Chair: Norbert Jux
- 2:30 p.m. **Paul-Alexander Laval-Schmidt** (Dong PCL)  
*2D c-MOF for quantum information Science*
- 2:55 p.m. **Daniel Krappmann** (Hirsch)  
*Norbornadiene-Triazine Hybrids for Solar Energy Conversion and Beyond*
- 3:20 p.m. **Jiwon Byun** (Halik PCL)  
*A Visible Light-Responsive Optomorphnic Transistor based on Hemithioindigo Self Assembled Monolayers*
- 3:45 p.m. Coffee break
- 4:15 p.m. Session VII; Chair: Marcus Halik
- 4:15 p.m. **Sijia Feng** (Weber PCL)  
*Photoluminescence study of two-dimensional semiconductor with squeezable nano junction*
- 4:40 p.m. **Erik Schulze** (Hirsch)  
*Supramolecular Donor-Acceptor Bola-Amphiphiles*
- 5:05 p.m. **Diyan Unmu Dzujah** (Heine PCL)  
*Controlling the band gap of graphene with vacancies*
- 5:30 p.m. **Boris Borisov** (Feng PCL)  
*Precision synthesis of graphene nanoribbons (GNRs) with novel topology and new prope*
- 6:00 p.m. Dinner
- 7:45 p.m. Session VIII; Chair: Andreas Hirsch
- 7:45 p.m. **Anjana Aravind** (Brunner PCL)  
*Chitin Membranes and 2D Material Integration for Enhanced Energy Storage: An NMR Study Approach*
- 8:10 p.m. **Giovanni Beneventi** (Guldi)  
*Lateral  $\pi$ -extension in nitrogen-doped molecular nanographenes – anti-Kasha emission and a ping-pong energy transfer*
- 8:35 p.m. **Linda Rockmann** (Halik)  
*Targeted removal of micro- and nanoplastics from water by functionalized superparamagnetic iron oxide nanoparticles*
- 9:00 p.m. **Rebecca Guldi** (Jux)  
*Synthesis and Characterisation of HBC-based Helicenes*
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**Joint GSMS/SFB953/PCL Winter School Kirchberg/Tyrol, January 22 – January 26, 2024**

**Thursday, January 25**

- 9:00 a.m. Breakfast
- 9:00 a.m. - Ph. D. students: project-oriented group work  
Professors: Status quo report and discussion on GSMS status; new funding
- 2:00 a.m. Project session I – PCL project competition; Chair: Norbert Jux  
**Session will be held in hybrid format**
- 2:00 p.m. **Britta Maib, Jannis Kockläuner, Shreya Garg, Aleena Jose, Elena Mack**  
*XXXX (project title known)*
- 2:25 p.m. **Boris Borisov, Linda Feuerstein, Paul-Alexander Laval Schmidt, Giovanni Beneventi**  
*XXXX (project title known)*
- 2:50 p.m. **Majid Shaker, Diyan Unmu Dzujah, Kevin Gerein**  
*XXXX (project title known)*
- 3:15 p.m. **Sijia Feng, Anjana Aravind, Jiwon Byun**  
*XXXX (project title known)*
- 4:05 p.m. Coffee break
- 4:20 p.m. Project session II – GSMS project competition; Chair: Sabine Maier
- 4:20 p.m. **Rebecca Guldi, Daniel Krappmann, Florian Steiger, Tobias Ullrich**  
*XXXX (project title known)*
- 4:55 p.m. **Johannes Voß, Linda Rockmann, Lukas Santiago Diaz, Lukas Müller**  
*XXXX (project title known)*
- 5:20 p.m. **Erik Schulze, Christoph Oleszak, Anna-Sophie Wollny, René Weiß**  
*XXXX (project title known)*
- 5:45 p.m. **Yannick Wingerter, Maryam Akhgaramirabadi, Lei Ye**  
*XXXX (project title known)*
- 6:10 p.m. **Filip Bozinovic, Sebastian Hauk, Sven Mörsel, Janina Buck**  
*XXXX (project title known)*
- 6:35 p.m. Dinner – Bauernbuffet/Farmers buffet (local food specialties)
- 9:30 p.m. Meeting of PIs; evaluation of the projects
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**Joint GSMS/SFB953/PCL Winter School Kirchberg/Tyrol, January 22 – January 26, 2024**

**Friday, January 26**

- 9:00 a.m. Breakfast and check-out

9:00 a.m. Session XI; Chair: Norbert Jux

9:00 a.m. **Lukas Müller** (Halik)

*Magnetic hybrid nanoparticles for efficient water remediation of organic pollutants from industry and pharmacy*

9:25 a.m. **Christoph Oleszak** (Jux)

*$\pi$ -Extension Extravaganca: Fused Porphyrin-Nanographene Architectures*

9:50 p.m. **Tobias Ullrich** (Guldi)

*Dark State of the Thiele Hydrocarbon: Efficient Solvatochromic Emission from a Nonpolar Centrosymmetric Singlet Diradicaloid*

~10:15 a.m. Award ceremony; closing remarks

10:30 a.m. check-out (if not done yet)

~ 11:00 a.m. departure from Kirchberg/Tirol

~ 5:00 p.m. arrival in Erlangen, Nikolaus-Fiebiger-Str. 10.

**Please note: The arrival times in Kirchberg and in Erlangen strongly depends on weather conditions, traffic and controls at the austrian/german border.**

**A note to all PhD students whose supervisors are members of SFB 953:**

**Please send your presentations in pdf format to Dr. Frank Hauke (frank.hauke@fau.de) for storing them. This is a requirement of the DFG with regard to Data management.**

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