



## Dynamics and Mechanisms of Complex Reactions, September 24-26, 2018

Lecture Hall, Institute for Physical and Theoretical Chemistry, Wegelerstr. 12, 53115 Bonn

### Monday, 24 September 2018

- 9:00 **Urs Gellrich:** In Silico Design and Synthesis of Novel Metal-Free Systems for Bond Activation and Catalysis. Part A: Methods
- 10:00 **Maximilian Bogner:** [1.1.1]Propellanes featuring non-tetrel based bridges: E2(PR)<sub>3</sub> (E = Si, Ge)
- 10:20 **Philipp Wollnitzke:** Towards Total synthesis of Ajudazol A by a convergent sp<sup>2</sup>-sp<sup>3</sup> cross coupling strategy
- 10:40 *Coffee break*
- 11:10 **Eike Caldeweyher:** DFT-D4: An accurate and generally applicable tight-binding based dispersion correction for density functional theory
- 11:30 **Hendrik Weißbarth:** Highly Selective Synthesis of Indoline- and Tetrahydroquinoline-Derivatives by REO-ArSR
- 11:50 **Simon Dedenbach:** Studies Towards the Total Synthesis of Epicoccolide B
- 12:30 *Lunch at Campo*
- 14:30 **Urs Gellrich:** In Silico Design and Synthesis of Novel Metal-Free Systems for Bond Activation and Catalysis. Part B: The Research Project
- 15:30 **Christopher Sterzenbach:** Phenylene-Based Molecular Spoked Wheels with reduced Symmetry- Templates for the Armchair-Directed Alkyl Chain Adsorption
- 15:50 **René Domjahn:** Structure, function and characterization of home built pump probe experiment with non-collinear optically parametric amplifiers for time-resolved spectroscopy
- 16:10 *Coffee break*
- 16:40 Poster session
- 19:00 *Dinner: Snack in the foyer of the PC*

### Tuesday, 25 September 2018

- 9:00 **Patrick Nürnberger:** In Hot Pursuit of Photochemical Reactions: How Ultrafast Spectroscopy Can Follow Reaction Dynamics in Real Time
- 10:00 **Simon Schwarzwald:** Synthesis and Reactivity of the first stable Di(aryloxy)silylene
- 10:20 **Pierre Funk:** Titanocen-catalysed oxidation of benzylic alcohols
- 10:40 *Coffee break*
- 11:10 **Jeannine Gleim:** 2D- Infrared- Spectroscopy of trans-4-Methoxy-3-buten-2-one
- 11:30 **Nils Schmickler:** Synthesis and characterization of new multichromophoric Systems
- 11:50 **Matthias Hardy:** Heterobimetallic Systems: Structures, Magnetic Properties, Dynamic Behaviour
- 12:30 *Lunch at Campo*
- 14:30 **Patrick Nürnberger:** In Hot Pursuit of Photochemical Reactions: Exploring Ultrafast Reaction Pathways of a Carbene and of a Photoswitch
- 15:30 **Solenne Rivière:** Total synthesis of Archazolid F and toward the synthesis of analogues
- 15:50 **Eric Pertermann:** Subcomponent Self-Assembly of Bisimide-Dyes towards Metallosupramolecular Complexes
- 16:10 *Coffee break*
- 16:40 **Philipp Pracht:** Fully Automated Quantum-Chemistry-Based Computation of Spin-Spin-Coupled Nuclear Magnetic Resonance Spectra
- 17:00 **Ruben Richrath:** Cp<sub>2</sub>TiX Complexes for Sustainable Catalysis in Single-Electron Steps
- 19:00 *Dinner at DelikArt Restaurant, Colmantstr. 14-16, 53115 Bonn*

### Wednesday, 26 September 2018

- 9:00 **Dirk Laux:** Synthesis of tripod-shaped molecules with adamantane frameworks
- 9:20 **Maximilian Kersten:** Liquid Crystalline Molecular Spoked Wheels
- 9:40 **Tristan Keller:** Self-assembled monolayers of molecular spoked wheels
- 10:00 Closing Remarks
- 10:10 *Coffee break*