

## Program AIMoTh 2016, Siegen, March 3-4, 2016

All talks take place at Artur-Woll-Haus, Am Eichenhang 50, 57076 Siegen.

| Thursday, March 3 |  |   |
|-------------------|--|---|
| 13:30–14:00       | Erich Grädel<br>RWTH Aachen  | New Constructs in Team Semantics  |
| 14:00–14:30       | Marlin Frickenschmidt<br>RWTH Aachen                                   | Order Invariance on Decomposable Structures   |
| 14:30–15:00       | Sandra Kiefer<br>RWTH Aachen   | Upper Bounds on the Quantifier Depth for Graph Differentiation in First Order Logic |
| 15:00–15:30       | Coffee Break   |   |
| 15:30–16:00       | Matthias Niewerth<br>TU Dortmund                                       | Minimization of Tree Pattern Queries  |
| 16:00–16:30       | Dominik Freydenberger<br>Universität Bayreuth                          | Document Spanners: From Expressive Power to Decision Problems                       |
| 16:30–17:00       | Martin Lange<br>Universität Kassel                                     | Buffered Simulation Games   |
| 17:00–17:15       | Short Break  |   |
| 17:15–17:45       | Daniel Neuen<br>RWTH Aachen  | Graph Isomorphism for Unit Square Graphs  |
| 17:45–18:15       | Saeed Amiri<br>TU Berlin   | Erdős-Pósa Property for Directed Graphs   |
| 20:00             | Dinner at Restaurant Brasserie Siegen, Unteres Schloss 1, 57072 Siegen |   |

| Friday, March 4 |                                     |  |
|-----------------|-------------------------------------|--|
| 09:00–09:30     | Wied Pakusa<br>RWTH Aachen          | A Logic for Polynomial Time: Recent Results and Challenges                           |
| 09:30–10:00     | Svenja Schalhöfer<br>RWTH Aachen    | Definability of Cai-Fürer-Immerman Problems in Choiceless Polynomial Time            |
| 10:00–10:30     | Christoph Berkholz<br>HU Berlin     | Near-Optimal Lower Bounds on Quantifier Depth and Weisfeiler-Leman Refinement Steps  |
| 10:30–11:00     | Coffee Break                        |  |
| 11:00–11:30     | Dietrich Kuske<br>TU Ilmenau        | Hanf Normal Form for First-Order Logic with Unary Counting Quantifiers               |
| 11:30–12:00     | Kord Eickmeyer<br>TU Darmstadt      | Model Checking for Successor-Invariant FO on Graphs with Excluded Topological Minors |
| 12:00–12:30     | Moses Ganardi<br>Universität Siegen | Circuit Evaluation in Finite Semirings   |