## Monday, 13 October 2014

- 9:30 welcome and introduction
- 10:00 open problems I
- 10:30 coffee break
- 11:00 **David Steurer:** Survey on Approximations and Optimality
- 12:00 lunch break
- 15:00 Alan Selman: Disjoint NP-pairs and Propositional Proof Systems
- 16:00 break
- 16:45 Olaf Beyersdorff: Optimal Proof Systems a Survey
- 18:00 dinner
- 19:30 opening of the art exhibit "über \* oder über 1."

## Tuesday, 14 October 2014

- 9:00 Pavel Pudlák: On some conjectures in proof complexity
- 10:00 coffee break
- 10:30 Dmitry Itsykson:

On optimal heuristic computations and heuristic proofs

- 11:30 **Dimitry Sokolov:** Examples of heuristic proofs
- 12:00 lunch break
- 15:00 Rahul Santhanam:

Hierarchies and Lower Bounds via Optimality: A Survey

- 16:00 break
- 16:30 Johan Håstad: On the correlation of parity and small-depth circuits
- 17:00 Igor Carboni Oliveira: Majority is incompressible by  $AC^{0}[p]$  circuits
- 18:00 dinner

# Wednesday, 15 October 2014

- 9:00 Yijia Chen: A Parameterized Halting Problem
- 10:00 coffee break
- 10:30 Mikoláš Janota: QBF Solving and proof systems
- 11:00 Leroy Chew: Proof Complexity for Quantified Boolean Formulas
- 12:00 lunch break
- 13:30 hike
- 18:00 dinner

## Thursday, 16 October 2014

9:00 Andrew Drucker:

On the Success Probability of Polynomial-Time SAT Solvers

- 10:00 coffee break
- 10:30 Alexander Kulikov: Circuit Lower Bounds
- 11:15 Benjamin Rossman:  $AC^0$  complexity of subgraph isomorphism
- 12:00 lunch break
- 15:00 Ilario Bonacina: Total Space in Resolution
- 16:00 break
- 16:30 Massimo Lauria: Narrow Proofs May Be Maximally Long
- 17:00 Nicola Galesi: The space complexity of cutting planes refutations
- 17:30 Hunter Monroe:

Speedup for Natural Computational Problems and Noncomputability

- 18:00 dinner
- 19:30 open problem session II

## Friday, 17 October 2014

9:00 Sam Buss:

Are there hard examples for Frege systems? — almost 20 years later

- 9:30 **Jochen Messner:** An observation on Levin's algorithm and a new (?) application to matrix multiplication
- 10:00 coffee break
- 10:30 Zenon Sadowski:

Characterising the existence of optimal proof systems

- 11:15 closing
- 12:00 lunch