

## Dagstuhl Seminar “SAT and Interactions”

### Monday, 19 September 2016

9:15 welcome and introduction

10:00 coffee break

10:30 **Sam Buss:** Satisfiability Testing and Proof Complexity

11:30 **Barnaby Martin:**

Resolution and the binary encoding of weak pigeonhole principles

12:15 lunch break

15:30 cake

16:00 **Jakob Nordström:**

Supercritical Space-Width Trade-offs for Resolution

16:30 **Jan Johannsen:** On Linear Resolution – an Update

17:00 **Ilario Bonacina:**

Strong Size Lower bounds in Regular Resolution via Games

18:00 dinner

19:30 Exhibit opening “Zarte Linien, starke Flächen”

## Dagstuhl Seminar “SAT and Interactions”

### Tuesday, 20 September 2014

- 9:00 **Florian Lonsing:** QBF solving
- 10:00 coffee break
- 10:30 **Joshua Blinkhorn:** Dependency Schemes in QBF Calculi:  
Semantics and Soundness
- 11:00 **Marijn Heule:**  
Practical Proof Systems for SAT and QBF
- 12:15 lunch break
- 15:30 cake
- 16:00 **Meena Mahajan:** QBF proof complexity
- 17:00 **Anil Shukla:** Understanding Cutting Planes for QBFs
- 18:00 dinner

## Dagstuhl Seminar “SAT and Interactions”

### Wednesday, 21 September 2014

- 9:00 **Rahul Santhanam:** Exact Algorithms for SAT – an Overview
- 10:00 coffee break
- 10:30 **Dominik Scheder:**  
PPSZ, Timon Hertli, and the story of multiple satisfying assignments
- 11:00 **Leroy Chew:** A Class of Hard Formulas for QBF Resolution
- 11:30 **Uwe Schöning:** Classroom analysis of random walk algorithm  
for 3SAT and practical extension to ProbSAT
- 12:15 lunch break
- 13:45 hike
- 18:00 dinner
- 20:00 music evening

## Dagstuhl Seminar “SAT and Interactions”

### Thursday, 22 September 2014

- 9:00 **Stefan Mengel:** An Introduction to Knowledge compilation
- 10:00 coffee break
- 10:30 **Florent Capelli:**  
Compilation of CNF-formulas: lower and upper bounds
- 11:15 **Jacobo Torán:** Isomorphism of Solution Graphs
- 12:15 lunch break
- 15:30 cake
- 16:00 **Arne Meier, Irena Schindler:**  
Approaching Backdoors in Two Non-Classical Logics
- 16:45 **Christoph Wintersteiger:** Lifting SAT to richer theories:  
bit-vectors, finite bases, and theory combination
- 17:15 open problem session
- 18:00 dinner

## Dagstuhl Seminar “SAT and Interactions”

### Friday, 23 September 2014

9:00 **Oliver Kullmann:**

Look-ahead for solving hard SAT problems

10:00 coffee break

10:30 **Victor Lagerkvist:**

Partial Polymorphisms and the Time Complexity of SAT Problems

11:00 **Miki Hermann:** Minimal Distance of Propositional Models

11:30 **John Franco:** Adding Unsafe Constraints to Improve  
Satisfiability Performance (Redux)

12:15 lunch