

Well-Quasiorders in Computer Science

17-22 January 2016

Schloss Dagstuhl

Monday: 18 January 2016

9:00–9:10	Opening
	Chair: Dick De Jongh
9:15–9:45	Diana Schmidt: Ordinal notations, the maximal order types of Kruskal’s Tree Theorems, and a tale of two cultures.
9:55–10:15	Andreas Weiermann: Some challenges related to wqo’s
10:15	Coffee
	Chair: Helmut Schwichtenberg
10:45–11:15	Lev Gordeev: On Harvey Friedman’s Finite Phase Transitions
11:15–12:00	Dominique Larchey-Wendling: An axiom free Coq proof of Kruskal’s tree theorem
12:15	Lunch
	Chair: Jean Goubault-Larrecq
14:00–14:45	Philippe Schnoebelen: Well-quasi-orderings for program analysis and computation complexity
14:45–15:15	Alain Finkel: Basics on (infinitely branching) WSTS
15:15– 15:45	Mirna Dzamonja: On the width of FAC orders
15:45	Coffee and Cake
	Chair: Andreas Weiermann
16:45–17:15	Christian Sternagel: A Mechanized Proof of Higman’s Lemma by Open Induction (in Isabelle/HOL)
17:15– 17:50	Helmut Schwichtenberg: Higman’s Lemma and its computational content
18:00	Dinner

Tuesday: 19 January 2016

	Chair: Thomas Forster
9:00–9:40	Yann Pequignot: From well to better: the space of ideals
9:45–10:10	Raphael Carroy: Ordering Functions
10:15–10:45	Coffee
	Chair: Lev Beklemishev
10:45 – 11:25	Alberto Marcone: Wqo and Bqo in Reverse Mathematics
11:30 – 12:00	Maurice Pouzet: Problems on well quasi ordering
12:15	Lunch
	Chair: Monika Seisenberger
14:00–14:30:	Chun-Hung Liu: Robertson’s conjecture on well-quasi-ordering and topological minors.
14:30–15:20:	Michael Rathjen: Bounds of the strength of the Graph Minor Theorem?
15:30	Break
	Chair: Peter Hertling
16:30–17:10	Victor Selivanov: Well quasi-orders and descriptive set theory: some results and questions
17:15–17:40	Thomas Forster: Better Quasi Orders and where they come from

Wednesday: 20 January 2016

	Chair: Victor Selivanov
9:00 – 9:25	Jean Goubault-Larrecq: Noetherian spaces
9:30 – 9:55	Matthew de Brecht: Noetherian spaces and quantifier elimination
10:00 – 10:20	Arno Pauly: Noetherian spaces in TTE
10:20	Coffee
	Chair: Klaus Weihrauch
11:00 – 11:30	Oleg Kudinov: Definability in some well partial orders
11:30 – 12:00	Bill Wadge: Games and Logic Programs
12:15	Lunch
13:15	Start Excursion – Walk

Thursday: 21 January 2016

Chair: Christian Glasser
9:00–9:45 Mizuhito Ogawa :Well-structured pushdown systems
9:45–10:15 Willem Fouche
10:15 Coffee

Chair: Alberto Marcone
10:45–11:10 Peter Schuster: Linearisation as Conservation
11:15–12:35 Julia Knight: Well quasi-orderings and Hahn Fields
11:40–12:05 Andreas Blass: A question about unique bad arrays
12:15 Lunch

15:30 Coffee
Chair: Philippe Schnoebelin
16:30 – 17:00 Silvain Schmitz: Complexity Classes beyond Elementary
17:00 – 17:30 Roland Meyer: Dimensions of Mobility
17:30 – 18:00 Problem Session

Friday: 22 January 2016

Chair: Diana Schmidt
9:00–9:30 Dick de Jongh: Some uses of wqo's and bqo's in modal logic
9:30–10:00 Thomas Powell: The computational content of open induction
10:00 Coffee

Chair: Dieter Spreen
10:30–11:00 Simon Halfon: Universality and VASS
11:00–11:30 Peter Hertling: On Initial Segments of Topological Weihrauch Degrees
11:30- 12:00 Solutions to the Problems
12:00 Closing

12:15 Lunch