

Correctness by Construction: Publications

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- [133] [University of Leeds, Swansea University] Olaf Beyersdorff and Oliver Kullmann, Talk: *Unified characterisations of resolution hardness measures*, 17th International Conference on Theory and Applications of Satisfiability Testing, Vienna, Austria, 14–17 July 2014
- [134] [University of Leeds] Olaf Beyersdorff, Talk: *How difficult is it to verify proofs?*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/05/beyersdorff.pdf>

- [135] [**University of Leeds**] Michael Rathjen, Talk: *Indefiniteness of mathematical problems?*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014)
- [136] [**University of Leeds**] Peter Schuster, Seminar: *Ueber die Metamathematik kommutativer Ringe (d’apres Scarpellini)*, Ludwig-Maximilians Universität, München, Germany, 14 May 2014
- [137] [**University of Leeds**] John Stell, Seminar: *Bi-intuitionistic modal logic and hypergraphs*, Japan Advanced Institute of Science and Technology, Nomi, Japan, 27 June 2014
- [138] [**University of Strathclyde**] Neil Ghani, Seminar: *An algebraic approach to parametricity*, University of Leeds, Leeds, UK, 29 October 2014
- [139] [**University of Strathclyde**] Neil Ghani, Talk: *Parametricity — what’s it all about*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/03/ghani.pdf>
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- [141] [**Swansea University**] Ulrich Berger, Talk: *Logical representations of partial, mutable and reusable data*, Oberwolfach, Germany, 16–22 November 2014. International Workshop, Mathematical Logic: Proof theory, Constructive Mathematics, Mathematisches Forschungsinstitut Oberwolfach
- [142] [**Swansea University**] Ulrich Berger, Talk: *Program extraction for Church’s simple theory of types*, University of South Africa, Pretoria, South Africa, 5 May 2014. Swansea-Pretoria Workshop
- [143] [**Swansea University**] Ulrich Berger, Invited talk: *Program extraction in Church’s simple theory of types*, Vienna Summer of Logic, Vienna, Austria, 17–18 July 2014. International workshop *Proof, Structure and Computation* (PSC 2014)
- [144] [**Swansea University**] Ulrich Berger, Talk: *Uniform schemata for proof rules*, Budapest, Hungary, 23 June 2014. International conference *Computability in Europe 2014* (CiE 2014), 23–27 June 2014

- [145] [Swansea University] Ulrich Berger, Alison Jones, and Monika Seisenberger, Talk: *Program extraction and natural language processing*, University of South Africa, Pretoria, South Africa, 5 May 2014. Swansea-Pretoria Workshop
- [146] [Swansea University] Ulrich Berger, Alison Jones, and Monika Seisenberger, Talk: *Program extraction applied to monadic parsing*, Vienna Summer of Logic, Vienna, Austria, 17–18 July 2014. International workshop *Proof, Structure and Computation* (PSC 2014)
- [147] [Swansea University] Ulrich Berger and Seisenberger Monika, Invited talk: *Program extraction from proofs*, Ludwig-Maximilians Universität, Fraueninsel (Chiemsee), Germany, 21–25 July 2014. *Proof, Truth, Computation: Summer School on the Interactions between Modern Foundations of Mathematics and Contemporary Philosophy*
- [148] [Swansea University] Ulrich Berger and Dieter Spreen, Talk: *A coinductive approach to computing with compact sets*, Ljubljana, Slovenia, 15 September 2014. Talk at the international workshop *Continuity, Computability, Constructivity — From Logic to Algorithms*
- [149] [Swansea University] Jens Blanck, Talk: *Computability and mathematics*, University of Canterbury, Christchurch, New Zealand, 29 July 2014
- [150] [Swansea University] Jens Blanck, Talk: *Computing with exact real numbers*, University of South Africa, Pretoria, South Africa, 9–10 January 2014
- [151] [Swansea University] Jens Blanck, Talk: *Implementation of exact real arithmetic*, University of South Africa, Pretoria, South Africa, 24 April 2014
- [152] [Swansea University] Reinhard Kahle and Anton Setzer, Talk: *The limits of the Curry-Howard isomorphism*, University of Tübingen, Tübingen, Germany, 21–23 February 2014. Workshop *Functions, Proofs, Concepts* (FPC)
- [153] [Swansea University] Andrew Lawrence, Talk: *Formal methods and their application in the railway domain*, University of South Africa, Pretoria, South Africa, 5 May 2014. Swansea-Pretoria Workshop
- [154] [Swansea University] Monika Seisenberger, Talk: *Application of logic to the verification of railway control systems*, Oberwolfach, Germany, 16–22 November 2014. Talk at the international Workshop, Mathematical Logic: Proof theory, Constructive Mathematics, Mathematisches Forschungsinstitut Oberwolfach
- [155] [Swansea University] Monika Seisenberger, Talk: *Modelling and Analyzing the European Rail Traffic Management System in Real-Time*

Maude, Luxembourg, 6 November 2014. Third International Workshop on Formal Techniques for Safety-Critical Systems (FTSCS 2014)

- [156] [Swansea University] Monika Seisenberger, Talk: *Program extraction*, University of South Africa, Pretoria, South Africa, 5 May 2014. Swansea-Pretoria Workshop
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- [159] [Swansea University] Gregory Woods, Talk: *Extracting imperative programs from proofs: In-place Quicksort*, University of South Africa, Pretoria, South Africa, 5 May 2014. Swansea-Pretoria Workshop
- [160] [Universität Siegen] Hannes Diener, Talk: *BD-N*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/03/diener.pdf>
- [161] [Universität Siegen] Dieter Spreen, Talk: *Information frames*, Université Paris Diderot, Paris, France, 8–10 September 2014. International workshop *Domains XI*. URL http://www.pps.univ-paris-diderot.fr/~varacca/domains/Domains_XI/Programme_files/inf frames-domains11.pdf
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- [167] [**Ludwig-Maximilians Universität**] Sam Sanders, Talk: *Higher-order reverse mathematics of Brouwer’s continuity theorem and related principles*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014)
- [168] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *An approach to constructive mathematics*, Philosophy of Mathematics and Logic, Keio University, Tokyo, Japan, 27 February 2014
- [169] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *Computational content of proofs*, JAIST Logic Workshop, Japan Advanced Institute of Science and Technology, Nomi, Japan, 5–7 March 2014
- [170] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *Computational content of proofs involving coinduction*, Kyoto University—Associated partner, 19 March 2014
- [171] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *Decorating proofs*, Australian National University, Canberra, Australia, 24 October 2014
- [172] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *Embedding classical in minimal implicational logic*, University of Bern, Bern, Switzerland, 19 June 2014
- [173] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *Module enriched realizability*, University of Genua, Genua, Italy, 24 March 2014
- [174] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Realizability*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014)
- [175] [**Università degli Studi dell’Insubria**] Marco Benini, Invited talk: *Algorithms and their explanations*, special session *History and Philosophy of Computing* of the international conference *Computability in Europe 2014* (CiE 2014), Budapest, Hungary, 23–27 June 2014
- [176] [**Università degli Studi dell’Insubria**] Marco Benini, Talk: *Does programming really need data structures?*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by*

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- [178] [Università degli Studi dell'Insubria] Marco Benini, Seminar: *Programming modulo representations*, Japan Advanced Institute of Science and Technology, Nomi, Japan, 5 June 2014. URL <http://www.slideshare.net/marcobenini9/programming-modulo-representations>
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- [180] [Università degli Studi di Padova] Francesco Ciraulo, Talk: *Closed subspaces in pointfree topology*, Scuola Normale di Pisa, Pisa, Italy, 17–14 April 2014. XXV incontro dell'Associazione Italiana di Logica e sue Applicazioni
- [181] [Università degli Studi di Padova] Francesco Ciraulo, Talk: *Positivity relations and localic suplattices*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/04/ciraulo.pdf>
- [182] [Università degli Studi di Padova] Maria Emilia Maietti, Talk: *Categorical structures for the foundation of constructive mathematics*, Università degli Studi di Palermo, Palermo, Italy, 11–12 October 2014. 96th Peripatetic Seminar on Sheaves and Logic (Celebrating the 60th birthday of Pino Rosolini)
- [183] [Università degli Studi di Padova] Maria Emilia Maietti, Talk: *Computation by construction in the minimalist foundation*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/04/maietti.pdf>
- [184] [Università degli Studi di Padova] Maria Emilia Maietti, Invited talk: *What is a constructive and predicative foundation for mathematics?*, Ludwig-Maximilians Universität, Fraueninsel (Chiemsee), Germany, 21–25 July 2014. *Proof, Truth, Computation: Summer School on the Interactions between Modern Foundations of Mathematics and Contemporary Philosophy*

- [185] [**Università degli Studi di Padova**] Maria Emilia Maietti, Seminar: *Why topology must be point free*, Logic Seminar, Australian National University, Canberra, Australia, 4 February 2014
- [186] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *A Kleene realizability model for the minimalist foundation*, Scuola Normale di Pisa, Pisa, Italy, 14–17 April 2014. XXV incontro dell’Associazione Italiana di Logica e sue Applicazioni
- [187] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *A kleene realizability semantics for the minimalist foundation*, Institut Henri Poincaré, Paris, France, 12–15 May 2014. TYPES for Proofs and Programs
- [188] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *A model of intuitionist set theory in subtoposes of nested realizability toposes*, Centre for Mathematical Sciences, Cambridge, UK, 29 June–5 July 2014. International Category Theory Conference 2014
- [189] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *A model of IZF in subtoposes of nested realizability toposes*, Università degli Studi di Palermo, Palermo, Italy, 11–12 October 2014. 96th Peripatetic Seminar in Sheaves and Logic
- [190] [**Università degli Studi di Padova**] Giovanni Sambin, Invited talk: *Benefits of a minimalist approach to mathematics*, Ludwig-Maximilians Universität, Fraueninsel (Chiemsee), Germany, 21–25 July 2014. *Proof, Truth, Computation: Summer School on the Interactions between Modern Foundations of Mathematics and Contemporary Philosophy*
- [191] [**Università degli Studi di Padova**] Giovanni Sambin, Invited talk: *Constructive mathematics*, Scuola Normale di Pisa, Pisa, Italy, 14–17 April 2014. Special session *Le direzioni della ricerca logica in Italia*, XXV incontro dell’Associazione Italiana di Logica e sue Applicazioni (AILA)
- [192] [**Università degli Studi di Padova**] Giovanni Sambin, Talk: *On the so-called Axiom of Unique Choice*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/03/sambin.pdf>
- [193] [**Università degli Studi di Padova**] Giovanni Sambin, Seminar: *Streams in a minimalist foundation*, Australian National University, Canberra, Australia, 23 January 2014
- [194] [**Università degli Studi di Padova**] Giovanni Sambin, Seminar: *Towards a rigorous foundation for Bishop’s constructive analysis*, Departmental Seminar, University of Canterbury, Christchurch, New Zealand, 13 March 2014

- [195] **[Università degli Studi di Genova]** Eugenio Moggi, Talk: *Categories for collection types*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/04/moggi.pdf>
- [196] **[Università degli Studi di Genova]** Eugenio Moggi, *Categories for collection types*, Scuola Normale di Pisa, Pisa, Italy, 14–17 April 2014. XXV incontro dell’Associazione Italiana di Logica e sue Applicazioni
- [197] **[Università degli Studi di Genova]** Giuseppe Rosolini, *Equivocal frames*, Institut Henri Poincaré, Paris, France, 10–13 June 2014. IHP Workshop on Semantics of Proofs and Programs
- [198] **[Università degli Studi di Genova]** Giuseppe Rosolini, Talk: *Frames as equilogical spaces*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/03/rosolini.pdf>
- [199] **[Università degli Studi di Genova]** Giuseppe Rosolini, *Frames as equilogical spaces*, University of Cambridge, Cambridge, UK, 2014. International Conference in Category Theory
- [200] **[Japan Advanced Institute of Science and Technology]** Hajime Ishihara, Talk: *A monad in the combinatory algebras*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/03/ishihara.pdf>
- [201] **[Japan Advanced Institute of Science and Technology]** Tatsuji Kawai, Talk: *Point-free characterisation of Bishop compact metric spaces*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/04/kawai.pdf>
- [202] **[Japan Advanced Institute of Science and Technology]** Takayuki Kihara, Talk: *Arboreal forcings over admissible sets*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014)
- [203] **[Japan Advanced Institute of Science and Technology]** Takako Nemoto, Talk: *Interpretation of set theory into theory of operators*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/04/nemoto.pdf>
- [204] **[Japan Advanced Institute of Science and Technology]** Mizuhito Ogawa, Talk: *Satisfiability of arithmetic constraints and its applications*

on verification, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/04/ogawa.pdf>

- [205] [**Japan Advanced Institute of Science and Technology**] Katsuhiko Sano, Talk: *Topological semantics for Visser’s propositional logics*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/05/sano.pdf>
- [206] [**Japan Advanced Institute of Science and Technology**] Satoshi Tojo, Talk: *Who knows what at which time? — from viewpoint of dynamic epistemic logic*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/04/tojo.pdf>
- [207] [**Japan Advanced Institute of Science and Technology**] Keita Yokoyama, Talk: *The strength of Ramsey’s theorem from several different view points*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL <http://corcon2014.files.wordpress.com/2014/04/yokoyama.pdf>
- [208] [**University of Canterbury**] Douglas S. Bridges, Seminar: *Morse set theory as a foundation for constructive mathematics*, Ludwig-Maximilians Universität, München, Germany, 2014
- [209] [**University of Canterbury**] Douglas S. Bridges, Seminar: *Morse set theory as a foundation for constructive mathematics*, Stockholms Universitet, Stockholms, Sweden, 2014
- [210] [**University of Canterbury**] Douglas S. Bridges, Seminar: *Operators, singly, in bunches, and constructively*, Ludwig-Maximilians Universität, München, Germany, 4 June 2014
- [211] [**University of Canterbury**] Maarten McKubre-Jordens, Seminar: *Analysis of three different flavours. a story of examples, counterexamples, and viewpoints*, Ludwig-Maximilians Universität, München, Germany, 28 May 2014
- [212] [**Australian National University**] Dirk Pattinson, Seminar: *Continuous functions on non-wellfounded types*, Ludwig-Maximilians Universität, München, Germany, 9 July 2014
- [213] [**Hankyong National University**] Gyesik Lee, Talk: *The big five systems of reverse mathematics and their computational interpretation*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. Inter-

national workshop *Correctness by Construction 2014* (CORCON 2014).
URL <http://corcon2014.files.wordpress.com/2014/04/lee.pdf>

- [214] [**Kyoto University—Associated partner**] Hideki Tsuiki, Talk: *Dyadic subbases derived from dynamical systems*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014)
- [215] [**External contributor**] Gianluigi Bellin and Alessandro Menti, Talk: *Bi-intuitionism as dialogue chirality*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). Authors from Università degli Studi di Verona, Verona, Italy. URL <http://corcon2014.files.wordpress.com/2014/03/bellinmenti.pdf>
- [216] [**University of Leeds, The Institute of Mathematical Sciences Chennai Society**] Olaf Beyersdorff, Leroy Chew, and Karteek Sreenivasaiyah, Talk: *A game characterisation of tree-like Q-resolution size*, 9th International Conference on Language and Automata Theory and Applications, Nice, France, 2–6 March 2015
- [217] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *Lower bounds: From circuits to QBF proof systems*, Dagstuhl Seminar “Circuits, Logic and Games”, Schloss Dagstuhl, Germany, September 2015
- [218] [**University of Leeds**] Olaf Beyersdorff, Lecture: *Proof complexity*, European Summer School of Logic, Language and Information, ESSLLI 2015, Barcelona, Spain, August 2015
- [219] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *Proof complexity*, Indo-UK workshop on Computational Complexity Theory, Chennai, India, January 2015
- [220] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *QBF proof complexity*, 16th International Workshop on Logic and Computational Complexity (LCC’15), Kyoto, Japan, July 2015
- [221] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *QBF proof complexity*, International Workshop on Quantification (QUANTIFY’15), Berlin, Germany, August 2015
- [222] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *QBF proofs*, Dagstuhl Seminar “Theory and Practice of SAT Solving”, Schloss Dagstuhl, Germany, April 2015
- [223] [**University of Leeds**] Olaf Beyersdorff, Leroy Chew, and Mikoláš Janota, Talk: *Proof complexity of resolution-based QBF calculi*, 32nd International Symposium on Theoretical Aspects of Computer Science, Munich, Germany, 4–7 March 2015

- [224] [**University of Leeds**] Nicola Gambino, Talk: *Univalent foundations of mathematics and homotopical algebra*, Homotopical Algebra and Geometry Workshop, University of Lancaster, Lancaster, UK, 2015
- [225] [**Ludwig-Maximilians Universität**] Josef Berger, Talk: *Convexity and constructive infima*, ABM, Munich, Germany, 18 December 2015
- [226] [**Ludwig-Maximilians Universität**] Josef Berger and Gregor Svindland, Talk: *A separating hyperplane theorem, the fundamental theorem of asset pricing, and Markov's principle*, Bridges between Financial and Constructive Mathematics, Munich, Germany, 14 July 2015
- [227] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *Basic homotopy theory of Bishop spaces*, Jahrestagung der Deutschen Mathematiker-Vereinigung 2015, Hamburg, Germany, 22 September 2015
- [228] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *The cantor space as a Bishop space*, Fifth Workshop on Formal Topology, Institut Mittag-Leffler, Stockholm, Sweden, 8 June 2015
- [229] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *Completely regular Bishop spaces*, CiE 2015, Bucharest, Romania, 30 June 2015
- [230] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *A constructive Stone-Weierstrass theorem for pseudo-compact Bishop spaces*, Bridges between Financial and Constructive Mathematics, Munich, Germany, 14 July 2015
- [231] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *A stone-weierstrass theorem for pseudo-compact bishop spaces*, Logic and Information WT 2015, Münchenwiler-Bern, Switzerland, 15 October 2015
- [232] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Seminar: *The zero sets of a Bishop space*, University of Canterbury, Christchurch, New Zealand, 12 March 2015
- [233] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Decorating natural deduction*, General Proof Theory, Tübingen, Germany, 27–29 November 2015
- [234] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Logic for Gray code computation*, Continuity, Computability, Constructivity (CCC15), Kochel, Germany, 13–18 September 2015
- [235] [**Università degli Studi dell'Insubria**] Marco Benini, Invited talk: *Numerical analysis and epistemology of information*, workshop Philosophical Aspects of Computer Science, European Centre for Living Technology, University "Ca' Foscari", Venice, Italy, 6 March 2015

- [236] [**Università degli Studi dell’Insubria**] Marco Benini, Seminar: *Point-free foundation of mathematics*, Logic seminar at the Yonsei University, Seoul, Republic of Korea, 21 July 2015
- [237] [**Università degli Studi dell’Insubria**] Marco Benini, Invited talk: *Proof-theoretic semantics: Point-free meaning of first-order systems*, Trends in Proof Theory workshop at Jahrestagung der Deutschen Mathematiker-Vereinigung, Hamburg, Germany, 20–21 September 2015
- [238] [**Università degli Studi dell’Insubria**] Marco Benini, Invited talk: *Well quasi orders in a categorical setting*, Well-quasiorderings: From Theory to Applications, symposium at Jahrestagung der Deutschen Mathematiker-Vereinigung, Hamburg, Germany, 21–25 September 2015
- [239] [**Università degli Studi di Padova**] Maria Emilia Maietti, Talk: *Why developing mathematics in a two-level foundation*, Workshop on Mathematical Logic and Its Applications, at , Japan Advanced Institute of Science and Technology, Nomi, Japan, 12 March 2015
- [240] [**Università degli Studi di Padova**] Maria Emilia Maietti, Seminar: *Why developing mathematics in a two-level foundation*, Research Institute for Mathematical Sciences, Kyoto University, Kyoto, Japan, 13 March 2015
- [241] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *Consistency of the minimalist foundation with Church thesis*, Constructivism and Computability, JAIST Logic Workshop Series, Kanazawa, Japan, 3 March 2015
- [242] [**Università degli Studi di Padova**] Giovanni Sambin, Seminar: *A new foundation of constructive mathematics 50 years after Bishop’s FCA*, Research Institute for Mathematical Sciences, Kyoto University, Kyoto, Japan, 13 March 2015
- [243] [**Università degli Studi di Padova**] Giovanni Sambin, Seminar: *Realizability interpretation of topology*, National Institute of Informatics, Tokyo, Japan, 23 March 2015
- [244] [**Università degli Studi di Padova**] Giovanni Sambin, Talk: *A single system for a plurality of logics*, Workshop on Logic and Philosophy of Logic, Keio University, Tokyo, Japan, 19 March 2015
- [245] [**Università degli Studi di Padova**] Giovanni Sambin, Talk: *A view on constructive mathematics (almost) 50 years after Bishop’s FCA*, Constructivism and Computability, JAIST Logic Workshop Series, Kanazawa, Japan, 2 March 2015
- [246] [**University of Leeds**] Nicola Gambino, Invited plenary talk: *Algebraic models of homotopy type theory*, Category Theory conference, Halifax, Canada, 2016

- [247] [**University of Leeds**] Nicola Gambino, Tutorial lectures: *Homotopy type theory*, Young Set Theory conference, Copenhagen, Denmark, 2016
- [248] [**University of Leeds**] Michael Rathjen, Invited talk: *Bounds on the strength of the graph minor theorem?*, Workshop on New Challenges in Reverse Mathematics, Singapore, 5 January 2016
- [249] [**University of Leeds**] Michael Rathjen, Invited talk: *Bounds on the strength of the graph minor theorem?*, Dagstuhl Seminar: Well Quasi-Orders in Computer Science, Schloss Dagstuhl, Germany, 19 January 2016
- [250] [**University of Leeds**] Michael Rathjen, Invited talk: *Indefiniteness, definiteness and semi-intuitionistic theories of sets*, Brouwer Symposium, Amsterdam, The Netherlands, 9 December 2016
- [251] [**University of Leeds**] Michael Rathjen, Invited talk: *On Feferman's second conjecture*, Steklov Institute Seminar 4, Moscow, Russia, 4 April 2016
- [252] [**University of Leeds**] Michael Rathjen, Invited talk: *On Feferman's second conjecture*, Workshop: Operations, sets, and types, Münchenwiler, Switzerland, 18 April 2016
- [253] [**University of Leeds**] Michael Rathjen, Invited talk: *On Feferman's second conjecture*, Conference Mathematics for Computation, Niederaltaich, Germany, 10 May 2016
- [254] [**University of Leeds**] Michael Rathjen, Invited talk: *On Feferman's second conjecture*, Midwest PhilMath Workshop 17, University of Notre Dame, USA, 12 November 2016
- [255] [**University of Leeds**] Michael Rathjen, Invited talk: *Partial combinatory algebras and derived rules*, Workshop on Operations, Sets, and Truth, Dipartimento di Lettere e Filosofia, Università degli Studi di Firenze, Italy, 16 December 2016
- [256] [**University of Leeds**] Michael Rathjen, Plenary talk: *Relating strong type theories to set theories*, North American Annual Meeting of the Association for Symbolic Logic, University of Connecticut, Storrs, USA, 23 May 2016
- [257] [**University of Leeds**] Michael Rathjen, Invited talk: *Relating type and set theories*, FOMUS - Foundations of Mathematics: Univalent foundations and set theory, Bielefeld, Germany, 21 July 2016
- [258] [**University of Leeds**] Dávid Tóth, Talk: *Towards embedding theorem: $\text{Aut}(d_?)$ embeds into $\text{Aut}(tot_?)$* , Computability Theory and Foundations of Mathematics 2016, Waseda University, Tokyo, Japan, 21 September 2016

- [259] [Swansea University] Bashar Igried and Anton Setzer, Seminar: *Coinductive reasoning in dependent type theory - copatterns, objects*, Japan Advanced Institute of Science and Technology, 6 September 2016
- [260] [Swansea University] Bashar Igried and Anton Setzer, Seminar: *Programming with monadic csp-style processes in dependent type theory*, Japan Advanced Institute of Science and Technology, 6 September 2016
- [261] [Swansea University] Bashar Igried and Anton Setzer, Talk: *Representing the process algebra csp in type theory*, TYPES 2016, Novi Sad, Serbia, 23–26 May 2016
- [262] [Swansea University] Anton Setzer, Talk: *Guis, object based programming, and processes in agda*, WG Meeting of COST Action EUTYPES, Lisbon, Portugal, 5–6 October 2016
- [263] [Swansea University] Anton Setzer, Talk: *Programming with objects in theorem provers based on martin löf type theory*, Workshop on Mathematical Logic and its Applications, Kyoto, Japan, 16–22 September 2016
- [264] [Swansea University] Anton Setzer, Talk: *The role of the coinduction hypothesis in coinductive proofs*, Opertions, Sets, and Types, Münchenwiler near Bern, Switzerland, 18–20 April 2016
- [265] [Swansea University] Anton Setzer, Talk: *Schemata for proofs by coinduction*, PCC 2016, Munich, Germany, 2016
- [266] [Swansea University] Anton Setzer, Talk: *The use of the coinduction hypothesis in coinductive proofs*, TYPES 2016, Novi Sad, Serbia, 23–26 May 2016
- [267] [Swansea University] Anton Setzer, Talk: *Writing guis in agda using objects*, Agda Implementors Meeting XXIII, University of Strathclyde, Glasgow, UK, 21 April 2016
- [268] [Universität Siegen] Dieter Spreen, Talk: *Bitopological spaces and the continuity problem*, PCC 2016: Special session in honour of Ulrich Berger’s 60th birthday, Munich, Germany, 5 May 2016
- [269] [Universität Siegen] Dieter Spreen, Talk: *Digit spaces*, Topological Foundations, Interval Analysis and Constructive Mathematics, CMO-BIRS workshop, Oaxaca, Mexico, 13–18 November 2016
- [270] [Universität Siegen] Dieter Spreen, Seminar: *Information frames*, National Institute of Informatics, Tokyo, Japan, 22 March 2016
- [271] [Universität Siegen] Dieter Spreen, Seminar: *Information frames*, Australian National University, Canberra, Australia, 31 August 2016

- [272] [**Ludwig-Maximilians Universität**] Josef Berger and Gregor Svindland, Talk: *Algorithmic aspects in financial mathematics*, Autumn school *Proof and Computation*, Fischbachau, 4–7 October 2016
- [273] [**Ludwig-Maximilians Universität**] Josef Berger and Gregor Svindland, Talk: *Brouwer’s fan theorem and convexity*, ABM, Munich, Germany, 9 December 2016
- [274] [**Ludwig-Maximilians Universität**] Josef Berger and Gregor Svindland, Talk: *The fan theorem and convexity*, Workshop on Mathematical Logic and its Applications, Kyoto, Japan, 16, 17 September 2016
- [275] [**Ludwig-Maximilians Universität**] Josef Berger and Gregor Svindland, Talk: *Separating convex sets*, Intelligent Robotics International Symposium, Kanazawa, Japan, 24 February 2016
- [276] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *Bishop’s Stone-Weierstrass theorem for compact metric spaces revisited*, Effective Analysis: Foundations, Implementations, Certification, CIRM, Marseille, France, 14 January 2016
- [277] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *Constructive compactness*, Interval Analysis and Constructive Mathematics, Banff International Research Station, Oaxaca, Mexico, 17 November 2016
- [278] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *A constructive function-theoretic approach to topological compactness*, LICS 2016, New York, NY, USA, 7 July 2016
- [279] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *Constructive uniformities of pseudometrics*, Logic and its Applications, Munich, Germany, 12 October 2016
- [280] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *A direct constructive proof of a Stone-Weierstrass theorem for metric spaces*, CiE 2016, Paris, France, 28 June 2016
- [281] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *An inequality type in intensional type theory*, ABM, Munich, Germany, 8 December 2016
- [282] [**Ludwig-Maximilians Universität**] Iosif Petrakis, Talk: *The Urysohn extension theorem for Bishop spaces*, Logical Foundations of Computer Science 2016, Deerfield Beach, FL, USA, 6 January 2016
- [283] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Computational content of proofs*, Hilbert-Bernays Summer School, Göttingen, Germany, July 2016
- [284] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *Computing with partial continuous functionals*, University of Canterbury, 10 February 2016

- [285] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Continuity in constructive analysis*, Workshop on Mathematical Logic and its Applications, Kyoto, Japan, 16, 17 September 2016
- [286] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *Decorating natural deduction*, Dipartimento di Informatica, Università degli Studi di Verona, Milan, Italy, 14–15 March 2016
- [287] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *Extracting programs from proofs*, University of Canterbury, 17 February 2016
- [288] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Higman’s lemma and its computational content*, Schloß Dagstuhl, Dagstuhl, Germany, January 2016
- [289] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *Invariance axioms for realizability*, Japan Advanced Institute of Science and Technology, 25 August 2016
- [290] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Linear two-sorted constructive arithmetic*, Frontiers of Non-Classicality: Logic, Mathematics, Philosophy. Dipartimento di Informatica, Università degli Studi di Verona, Verona, Italy, 15 March 2016
- [291] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Linear two-sorted constructive arithmetic*, Frontiers of Non-Classicality: Logic, Mathematics, Philosophy, Auckland, New Zealand, 27 January 2016
- [292] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Logic for real number computation*, Convegno Italiano di Logica Computazionale (CILC) 2016 Special session Constructivism and logic (programming), Milan, Italy, 21 June 2016
- [293] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Seminar: *A theory of computable functionals*, University of Canterbury, 12 February 2016
- [294] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Seminar: *Continuity in type theory*, JAIST Logic Seminar, JAIST, Japan, September 2016
- [295] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Seminar: *A continuous model of type theory*, Logic and Semantics group, Aarhus University, Aarhus, Denmark, October 2016
- [296] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Talk: *Extracting computer programs from nonstandard proofs*, Logic and Its Applications, München, Germany, October 2016

- [297] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Seminar: *The inconsistency of a Brouwerian continuity principle with the Curry-Howard interpretation*, Oberseminar Mathematische Logik, LMU, München, Germany, June 2016
- [298] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Talk: *Sheaf models of type theory in type theory*, Mathematics for Computation (M4C), Niederalteich, Germany, May 2016
- [299] [**Università degli Studi dell’Insubria**] Marco Benini, Seminar: *Variations on the Higman’s lemma*, Japan Advanced Institute of Science and Technology, 8 August 2016
- [300] [**Università degli Studi di Padova**] Francesco Ciraulo, Talk: *Interval numbers in point-free topology: localic suplattices and positivity relations*, Interval Analysis and Constructive Mathematics, Oaxaca, Mexico, 13–18 September 2016
- [301] [**Università degli Studi di Padova**] Maria Emilia Maietti, Invited talk: *Constructive existence via the minimalist foundation*, Intelligent Robotics International Symposium, Kanazawa, Japan, 24–25 March 2016
- [302] [**Università degli Studi di Padova**] Maria Emilia Maietti, Seminar: *Constructive existence via the minimalist foundation*, Carnegie Mellon University, 11 March 2016
- [303] [**Università degli Studi di Padova**] Samuele Maschio, Seminar: *Realizability models for the minimalist foundation*, Carnegie Mellon University, 11 March 2016
- [304] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *A strictly predicative version of Hyland’s effective topos*, 100th Peripatetic Seminar in Sheaves and Logic, Cambridge, UK, 23 May 2016
- [305] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *A variety of effective models for the minimalist foundation*, Mathematics for Computation, Niederalteich, Germany, 11 May 2016
- [306] [**Università degli Studi di Padova**] Giovanni Sambin, Invited talk: *Topological systems: a minimalist constructive environment for all topological notions*, Mathematics for Computation, Niederalteich, Germany, 8–13 May 2016
- [307] [**Japan Advanced Institute of Science and Technology**] Tetsuji Goto, Katsuhiko Sano, and Satoshi Tojo, Talk: *Modeling predictability of agent in legal cases*, IEEE International Conference on Agents 2016, 28–30 September 2016

- [308] [**Japan Advanced Institute of Science and Technology**] Teeradaj Racharak, Satoshi Tojo, Nguyen Duy Hung, and Prachya Boonkwan, Talk: *Argument-based logic programming for analogical reasoning*, Tenth International Workshop on Juris-informatics (JURISIN 2016), 1 November 2016
- [309] [**University of Canterbury**] Douglas S. Bridges, Seminar: *Some favourite constructive theorems of mine*, Università degli Studi dell’Insubria, 21 April 2016
- [310] [**University of Canterbury**] Douglas S. Bridges, Talk: *Some favourite theorems of mine*, Mathematics for Computation, Niederalteich, Germany, 9 May 2016
- [311] [**University of Canterbury**] Hannes Diener, Seminar: *Completeness is overrated*, Stockholms Universitet, 25 May 2016
- [312] [**University of Canterbury**] Hannes Diener, Seminar: *Constructive reverse mathematics*, Ludwig-Maximilians Universität, 18 May 2016
- [313] [**The Institute of Mathematical Sciences Chennai Society**] Meena Mahajan, Talk: *Qbf proof complexity*, Dagstuhl research seminar 16381 on SAT and Interactions, Dagstuhl, Germany, 18–23 September 2016
- [314] [**The Institute of Mathematical Sciences Chennai Society**] Anil Shukla, Talk: *Are short proofs narrow? QBF resolution is not simple*, 33rd Symposium on Theoretical Aspects of Computer Science, STACS, Orléans, France, 17–20 February 2016
- [315] [**The Institute of Mathematical Sciences Chennai Society**] Anil Shukla, Talk: *Understanding cutting planes for qbfs*, Dagstuhl research seminar 16381 on SAT and Interactions, Dagstuhl, Germany, 18–23 September 2016
- [316] [**The Institute of Mathematical Sciences Chennai Society**] Anil Shukla, Talk: *Understanding cutting planes for qbfs*, FSTTCS Conference, Chennai, India, 13–15 December 2016
- [317] [**University of Leeds**] Michael Rathjen, Talk: *Mathematical logic*, Ferman Memorial Symposium, Stanford, CA, USA, 5 June 2017
- [318] [**University of Leeds**] Michael Rathjen, Talk: *On relating type theories to (intuitionistic) set theories*, Logic at University of California, Berkeley, Berkeley, CA, USA, 5 May 2017
- [319] [**Swansea University, Kyoto University—Associated partner**] Ulrich Berger and Hideki Tsuiki, Invited talk: *Concurrency and constructive mathematics*, Humboldt Kolleg Proof Theory as Mathesis Universalis, Como, Italy, 24–28 July 2017

- [320] [Swansea University, Kyoto University—Associated partner] Ulrich Berger and Hideki Tsuiki, Talk: *Concurrency in constructive logic and mathematics*, Workshop on Constructive Mathematics and Program Extraction, Christchurch, New Zealand, 19 April 2017
- [321] [Swansea University, Kyoto University—Associated partner] Ulrich Berger and Hideki Tsuiki, Talk: *Concurrent program extraction*, CCC 2107, Nancy, France, 26–30 June 2017
- [322] [Swansea University, Kyoto University—Associated partner] Ulrich Berger and Hideki Tsuiki, Talk: *Zur extraktion nebenlaeufiger programme in der berechenbaren analysis*, Workshop on Computability and Reducibility, Hiddensee, Germany, 6–11 August 2017
- [323] [Swansea University] Arnold Beckmann, Seminar: *Provably total NP search problems of bounded arithmetic and beyond*, Japan Advanced Institute of Science and Technology, 15 September 2017
- [324] [Swansea University] Arnold Beckmann and J. J. Razafindrakoto, Talk: *Total search problems in bounded arithmetic and improved witnessing*, WoLLiC 2017, London, UK, 18–21 July 2017
- [325] [Swansea University] Ulrich Berger, Talk: *A concurrent computational interpretation of the law of excluded middle*, British Logic Colloquium, Univ. Sussex, Sussex, UK, 8–9 September 2017
- [326] [Swansea University] Ulrich Berger, Talk: *A concurrent computational interpretation of the law of excluded middle*, Oberwolfach Workshop ‘Mathematical Logic: Proof Theory, Constructive Mathematics’, Oberwolfach, Germany, 5–11 November 2017
- [327] [Swansea University] Arno Pauly, Invited talk: *Applications of computability theory in topology*, Logic Colloquium 2017, Special Session on Computability Theory, Stockholm, Sweden, July 2017
- [328] [Swansea University] Arno Pauly, Seminar: *Computability: From ω^ω to κ^κ* , Logic Seminar, Nagoya University, Nagoya, Japan, July 2017
- [329] [Swansea University] Arno Pauly, Talk: *Computing measures as a primitive operation*, CCA 2017, Daejeon, South Korea, July 2017
- [330] [Swansea University] Arno Pauly, Talk: *Game characterizations and lower cones in the Weihrauch degrees*, CiE 2017, Turku, Finland, June 2017
- [331] [Swansea University] Arno Pauly, Talk: *On the structure of Turing degrees, CH and applications*, OMG/DVM, Section on Algebra, Logic and Set Theory, August 2017

- [332] [Swansea University] Arno Pauly, Talk: *The perfect tree theorem and open determinacy*, CCC 2017 (CID kick-off workshop), Nancy, France, 26–30 June 2017
- [333] [Swansea University] Arno Pauly, Talk: *Welcher weihrauch-grad entspricht atr_0 ?*, Computability and Reducibility. University of Greifswald, Hiddensee, Germany, 6–11 August 2017
- [334] [Swansea University] Olga Petrovska, Talk: *Natural language proof checking in predicate logic*, Workshop on Constructive Mathematics and Program Extraction, Christchurch, New Zealand, 19 April 2017
- [335] [Swansea University] Olga Petrovska and Ulrich Berger, Talk: *Natural language proofs for program extraction*, PCC (Proof, Computation, Complexity) 2017, Gottingen, Germany, 25–28 July 2017
- [336] [Swansea University] Monika Seisenberger, Plenary talk: *Application of logic in railway verification*, ASL 2017, North American Annual Meeting of the ASL, Boise, USA, 20–23 March 2017
- [337] [Swansea University] Monika Seisenberger, Talk: *Logic in verification*, Workshop on Constructive Mathematics and Program Extraction, Christchurch, New Zealand, 19 April 2017
- [338] [Swansea University] Anton Setzer, Talk: *Modelling bitcoins in agda*, TYPES 2017, Budapest, Hungary, 29 May, 1 June 2017
- [339] [Swansea University] Anton Setzer, Talk: *Object-oriented programming in dependent type theory*, MC & WG Meeting of COST Action EUTYPES, Ljubljana, Slovenia, 30–31 January 2017
- [340] [Swansea University] Anton Setzer, Talk: *Programming with guis in agda*, Agda Implementors Meeting XXV, Gothenburg, Germany, 9–15 May 2017
- [341] [Swansea University] Anton Setzer and Reinhard Kahle, Seminar: *The extended predicative Mahlo universe in explicit mathematics - model construction*, Seminar Logic and Theory Group, University of Bern, Bern, Switzerland, 5 October 2017
- [342] [Swansea University] Anton Setzer and Reinhard Kahle, Invited special session talk: *The extended predicative Mahlo universe in explicit mathematics - model construction*, Logic Colloquium 2017, Stockholm, Sweden, 14–20 August 2017
- [343] [Universität Siegen] Dieter Spreen, Seminar: *Bitopological spaces and the continuity problem*, Korea Advanced Institute of Science and Technology, Daejeon, South Korea, 17 April 2017

- [344] [Universität Siegen] Dieter Spreen, Seminar: *A domain-theoretic model construction for Coquand/Huet's calculus of construction*, Yonsei University, Seoul, South Korea, 2 May 2017
- [345] [Ludwig-Maximilians Universität] Josef Berger, Talk: *A constructive version of the weak König lemma*, 9th European Congress of Analytic Philosophy, Munich, Germany, 23 August 2017
- [346] [Ludwig-Maximilians Universität] Josef Berger and Gregor Svindland, Seminar: *Brouwer's fan theorem and convexity*, Japan Advanced Institute of Science and Technology, 16 March 2017
- [347] [Ludwig-Maximilians Universität] Josef Berger and Gregor Svindland, Seminar: *A constructive supporting hyperplane theorem*, ABM, Munich, Germany, 14 December 2017
- [348] [Ludwig-Maximilians Universität] Josef Berger and Gregor Svindland, Talk: *Convexity and constructive minima*, Humboldt Kolleg Proof Theory as Mathesis Universalis, Como, Italy, 25 July 2017
- [349] [Ludwig-Maximilians Universität] Iosif Petrakis, Talk: *A density theorem for hierarchies of limit spaces over separable metric spaces*, Theory and Applications of Models of Computation, Bern, Switzerland, 22 April 2017
- [350] [Ludwig-Maximilians Universität] Iosif Petrakis, Talk: *Mcshane-whitney pairs*, CiE 2017, Turku, Finland, 16 June 2017
- [351] [Ludwig-Maximilians Universität] Iosif Petrakis, Talk: *On the geometric character of Homotopy Type Theory*, Operations, Sets, and Types, Bern, Switzerland, 13 March 2017
- [352] [Ludwig-Maximilians Universität] Iosif Petrakis, Talk: *Typoids in martin-löf's intentional type theory*, XXVI incontro dell'Associazione Italiana di Logica e sue Applicazioni, Padua, Italy, 25 September 2017
- [353] [Ludwig-Maximilians Universität] Iosif Petrakis, Talk: *Typoids in univalent type theory*, PCC 2017, Göttingen, Germany, 26 July 2017
- [354] [Ludwig-Maximilians Universität] Iosif Petrakis, Seminar: *Univalent types*, Categories, Constructions, Sets and Types, Verona, Italy, 8 May 2017
- [355] [Ludwig-Maximilians Universität] Iosif Petrakis, Seminar: *A Yoneda lemma-formulation of the axiom of univalence*, Universität der Bundeswehr München, Munich, Germany, 14 December 2017
- [356] [Ludwig-Maximilians Universität] Helmut Schwichtenberg, Talk: *E-arithmetical*, OMG-DMV Congress, Salzburg, Austria, 11–15 September 2017

- [357] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Invariance axioms for realizability*, European Conference on Analytic Philosophy, Munich, Germany, 21–25 August 2017
- [358] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Invariance axioms for realizability*, Humboldt-Kolleg Proof Theory as Mathesis Universalis, Villa Vigoni, Como, Italy, 24–28 July 2017
- [359] [**Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Talk: *Logic for exact real arithmetic*, Operations, Sets and Types, Bern, Switzerland, 8–10 March 2017
- [360] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Talk: *The computer as referee in mathematics*, ECAP9, München, Germany, August 2017
- [361] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Talk: *The computer as referee in mathematics*, Doktorandentreff, TU Darmstadt, Darmstadt, Germany, November 2017
- [362] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Talk: *Extracting computer programs from nonstandard proofs*, Categories, Constructions, Sets and Types, Verona, Italy, May 2017
- [363] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Talk: *Extracting computer programs from nonstandard proofs*, OMG–DMV 2017, Salzburg, Austria, September 2017
- [364] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Talk: *Unifying (Herbrand) functional interpretation of (nonstandard) arithmetic*, Proof and Computation, Verona, Italy, October 2017
- [365] [**Ludwig-Maximilians Universität**] Chuangjie Xu, Seminar: *Using function extensionality in agda, (non-)computationally*, Oberseminar Mathematische Logik, LMU, München, Germany, December 2017
- [366] [**Università degli Studi dell’Insubria**] Marco Benini and Roberta Bonacina, Seminar: *Explaining the kruskal’s tree theorem*, Japan Advanced Institute of Science and Technology, 12 May 2017
- [367] [**Università degli Studi dell’Insubria**] Marco Benini and Roberta Bonacina, Seminar: *The graph minor theorem: a walk on the wild side of graphs*, Japan Advanced Institute of Science and Technology, 6 June 2017
- [368] [**Università degli Studi dell’Insubria**] Marco Benini and Roberta Bonacina, Invited seminar: *The graph minor theorem: a walk on the wild side of graphs*, Verona Logic Seminars, Verona, Italy, 3 April 2017
- [369] [**Università degli Studi dell’Insubria**] Marco Benini and Roberta Bonacina, Talk: *Point-free semantics of dependent type theories*, University of Canterbury, 4 December 2017

- [370] [**Università degli Studi di Padova**] Francesco Ciraulo, Talk: *σ -locales and booleanization in formal topology*, CCC 2017, Nancy, France, 26–30 June 2017
- [371] [**Università degli Studi di Padova**] Maria Emilia Maietti, Invited seminar: *Martin-löf's type theory in support of the minimalist foundation*, Department of Mathematics, University of Stockholm, Stockholm, Sweden, 10 February 2017
- [372] [**Università degli Studi di Padova**] Maria Emilia Maietti, Invited talk: *On extraction of programs from constructive proofs*, 14th Annual Conference on Theory and Applications of Models of Computation, Bern, Switzerland, 20–22 April 2017
- [373] [**Università degli Studi di Padova**] Maria Emilia Maietti, Talk: *On real numbers in the minimalist foundation*, CCC 2017, Nancy, France, 26–30 June 2017
- [374] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *A stratified pointfree definition of probability via constructive natural density*, CCC 2017, Nancy, France, 30 June 2017
- [375] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *Topology as faithful communication through relations*, Topology, algebra and categories in logic 2017, Prague, Czech Republic, 27 June 2017
- [376] [**Università degli Studi di Padova**] Fabio Pasquali, Seminar: *Choice principles and the tripos-to-topos construction*, Logic Seminar, University of Verona, Verona, Italy, 6 October 2017
- [377] [**Università degli Studi di Padova**] Fabio Pasquali, Seminar: *Elementary quotient completion of an elementary doctrine*, Logic Seminar, University of Verona, Verona, Italy, 8 May 2017
- [378] [**Università degli Studi di Padova**] Fabio Pasquali, Seminar: *Elementary quotient completion of an elementary doctrine*, HoTT seminar, Carnegie Mellon University, Pittsburgh, PA, USA, 10 March 2017
- [379] [**Università degli Studi di Padova**] Fabio Pasquali, Talk: *Quasi-toposes as elementary quotient completions*, International Category Theory Conference, Vancouver, Canada, 17 July 2017
- [380] [**Università degli Studi di Padova**] Giovanni Sambin, Invited talk: *Mathematics as a dynamic process: effects on the working mathematician*, Incontro di Logica AILA, Padua, Italy, 25 September 2017
- [381] [**Università degli Studi di Padova**] Giovanni Sambin, Talk: *The minimalist foundation and its impact on the working mathematician*, CCC 2017, Nancy, France, 28 June 2017

- [382] [**The Institute of Mathematical Sciences Chennai Society**] Meena Mahajan, Talk: *Are short proofs narrow? QBF resolution is not so simple*, Dagstuhl research seminar 18051 on Proof Complexity, Dagstuhl, Germany, 28 January–2 February 2017
- [383] [**The Institute of Mathematical Sciences Chennai Society**] Meena Mahajan, Talk: *Understanding cutting planes for QBFs*, Dagstuhl research seminar 17121 on Computational Complexity of Discrete problems, Dagstuhl, Germany, 19–24 March 2017
- [384] [**External contributor**] Steve Vickers, Seminar: *Arithmetic universes as generalized point-free spaces*, Japan Advanced Institute of Science and Technology, 17 April 2017
- [385] [**Swansea University**] Arno Pauly, Talk: *Almost-total enumeration degrees, graph-cototal enumeration degrees and a theorem by sierpinski*, Computability Theory, Oberwolfach, Germany, January 2018
- [386] [**The Institute of Mathematical Sciences Chennai Society**] Meena Mahajan, Seminar: *Lower bound techniques for QBF proof systems*, Methods-for-Discrete-Structures Graduate Seminar, TU-Berlin, Berlin, Germany, 5 February 2018
- [387] [**The Institute of Mathematical Sciences Chennai Society**] Meena Mahajan, Invited plenary talk: *Lower bound techniques for QBF proof systems*, Symposium on Theoretical Aspects of Computer Science STACS 2018, Caen, France, 1–3 March 2018

Other Publications

- [388] [**University of Leeds, The Institute of Mathematical Sciences Chennai Society**] Olaf Beyersdorff, Leroy Chew, and Karteek Sreenivasaiyah, *A game characterisation of tree-like Q-resolution size*, *Tech. Rep. 131*, Electronic Colloquium on Computational Complexity, 2014
- [389] [**University of Leeds**] Olaf Beyersdorff, Leroy Chew, and Mikoláš Janota, *On unification of QBF resolution-based calculi*, *Tech. Rep. 36*, Electronic Colloquium on Computational Complexity, 2014. Revision 1
- [390] [**University of Leeds**] Olaf Beyersdorff, Leroy Chew, and Mikoláš Janota, *Proof complexity of resolution-based QBF calculi*, *Tech. Rep. 120*, Electronic Colloquium on Computational Complexity, 2014
- [391] [**Swansea University**] Ulrich Berger, Andrew Lawrence, Fredrik Nordvall Forsberg, and Monika Seisenberger, *Extracting verified decision procedures: DPLL and Resolution*, *Tech. rep.*, arXiv.org, 2014. URL <http://arxiv.org/abs/1502.02131>

- [392] [**Università degli Studi dell’Insubria**] Marco Benini, *Cartesian closed categories are distributive*, *Tech. rep.*, arXiv.org, 2014. URL <http://arxiv.org/abs/1406.0961>
- [393] [**Università degli Studi dell’Insubria**] Marco Benini, *Review of Homotopy Type Theory. Univalent Foundations of Mathematics*, Zentralblatt MATH, 2014. URL <https://www.zbmath.org/?q=an:06303354>
- [394] [**Università degli Studi dell’Insubria**] Marco Benini, *A simplified definition of logically distributive categories*, *Tech. rep.*, arXiv.org, 2014. URL <http://arxiv.org/abs/1406.1251>
- [395] [**Università degli Studi di Genova**] Ruggero Pagnan, *On the local versus global structural behavior of logic*, 2014. Submitted to Bulletin of Symbolic Logic
- [396] [**University of Leeds, Carnegie Mellon University**] Steve Awodey, Nicola Gambino, and Kristina Sojakova, *Homotopy-initial algebras in type theory*, *Tech. rep.*, arXiv.org, 2015. URL <http://arxiv.org/abs/1504.05531>
- [397] [**University of Leeds, Carnegie Mellon University**] Steve Awodey, Nicola Gambino, and Kristina Sojakova, *Homotopy-initial algebras in type theory*, *Tech. rep.*, arXiv.org, 2015. URL <http://arxiv.org/abs/1504.05531>
- [398] [**University of Leeds**] Nicola Gambino and André Joyal, *On operads, bimodules and analytic functors*, *Tech. rep.*, arXiv.org, 2015. URL <http://arxiv.org/abs/1405.7270>
- [399] [**University of Leeds**] Nicola Gambino and Christian Sattler, *Uniform fibrations and the Frobenius condition*, *Tech. rep.*, arXiv.org, 2015. URL <http://arxiv.org/abs/1510.00669>
- [400] [**University of Leeds**] Jeroen Van der Meeren, Michael Rathjen, and Andreas Weiermann, *An order-theoretic characterization of the Howard-Bachmann-hierarchy*, *Tech. rep.*, arXiv.org, 2015. URL <http://arxiv.org/abs/1411.4481>
- [401] [**University of Leeds**] Marcelo Fiore, Nicola Gambino, Martin Hyland, and Glynn Winskel, *Relative pseudomonads, Kleisli bicategories, and substitution monoidal structures*, *Tech. rep.*, arXiv.org, 2016. URL <http://arxiv.org/abs/1612.03678>
- [402] [**University of Leeds**] Nicola Gambino and Christian Sattler, *The Frobenius condition, right properness, and uniform fibrations*, *Tech. rep.*, arXiv.org, 2016. URL <http://arxiv.org/abs/1510.00669v4>

- [403] [University of Leeds] Katsuhiko Sano and John G. Stell, *Strong completeness and the finite model property for bi-intuitionistic stable tense logics*, *Tech. rep.*, ArXiv.org, 2016. URL <https://arxiv.org/abs/1703.02198>
- [404] [Swansea University] Andreas Abel, Stephan Adelsberger, and Anton Setzer, *ooAgda*, 2016. Agda Library. Available from <https://github.com/agda/ooAgda>. URL <https://github.com/agda/ooAgda>
- [405] [Swansea University] B. Igried and A. Setzer, *Defining trace semantics for CSP-Agda*, November 28 2016. In: Katerina Komendantskaya, František Farka (Eds.): CoALP-Ty'16. Pre-proceedings of the Workshop on Coalgebra, Horn Clause Logic Programming and Types. November 28 – 29, 2016. URL <https://arxiv.org/pdf/1612.03032.pdf>
- [406] [Swansea University] Bashar Igried and Anton Setzer, *CSP-Agda*, 2016. Agda library. Available at <http://www.cs.swan.ac.uk/~simscsetzer/software/agda2/cspagda/>
- [407] [Ludwig-Maximilians Universität, University of Leeds] Helmut Schwichtenberg and Stanley S. Wainer, *Tiered arithmetics*, 2016. To appear in the Feferman Volume edited by G. Jäger and W. Sieg
- [408] [Ludwig-Maximilians Universität] Chuangjie Xu, *An agda implementation of Oliva and Steila's A direct proof of Schwichtenberg's bar recursion closure theorem*, 2016. Available at <http://cj-xu.github.io/agda/BRCT/BRCT.html>
- [409] [Ludwig-Maximilians Universität] Chuangjie Xu, *The nonstandard dialectica interpretation in agda*, 2016. Available at http://cj-xu.github.io/agda/nonstandard_dialectica/Index.html
- [410] [University of Canterbury] Douglas S. Bridges, James E. Dent, and Maarten McKubre-Jordens, *Z-stability in constructive analysis*, *Tech. rep.*, ArXiv.org, 2016. URL <https://arxiv.org/abs/1602.07368>
- [411] [University of Canterbury] Raazesh Sainudiin, Gloria Teng, Jennifer Harlow, and Warwick Tucker, *Data-adaptive histograms through statistical regular pavings*, 2016. Submitted
- [412] [Carnegie Mellon University] Steve Awodey, *A cubical model of homotopy type theory*, *Tech. rep.*, Arxiv-org, 2016. URL <https://arxiv.org/abs/1607.06413>
- [413] [University of Canterbury] Hannes Diener and Matthew Hendtlass, *Bishop's lemma*, 2016 submitted
- [414] [Stockholms Universitet, University of Canterbury] Maarten McKubre-Jordens, Peter LeFanu Lumsdaine, and Hakon Robbestad-Gylderud, *Proof normalization and paradoxes in type theory*, 2016 to appear

- [415] [**Università degli Studi di Padova**] Francesco Ciraulo and Giovanni Sambin, *Reducibility, a constructive dual to spatiality*, 2016 to appear
- [416] [**University of Canterbury**] Douglas S. Bridges and R.A. Alps, *Morse set theory as a foundation for constructive mathematics*, 2016 to appear
- [417] [**University of Canterbury**] Matthew Hendtlass, *Topological models of IZF*, 2016 to appear
- [418] [**Swansea University**] Arnold Beckmann and Norbert Preining, *Hyper natural deduction for Goedel logic — natural deduction system for parallel reasoning*, 2017. Accepted for publication
- [419] [**Swansea University**] Vasco Brattka, Guido Gherardi, and Arno Pauly, *Weihrauch complexity in computable analysis*, *Tech. rep.*, ArXiv.org, 2017
- [420] [**Universität Siegen**] Dieter Spreen, *Generalized information systems capture L-domains*, 2017. Submitted
- [421] [**Universität Siegen**] Dieter Spreen, *Information systems with witnesses: the function space construction*, *Tech. rep.*, ArXiv.org, 2017. URL <https://arxiv.org/abs/1702.05079>
- [422] [**Ludwig-Maximilians Universität, Japan Advanced Institute of Science and Technology**] Josef Berger, Hajime Ishihara, Takayuki Kihara, and Takako Nemoto, *The binary expansion and the intermediate value theorem in constructive reverse mathematics*, 2017. Submitted
- [423] [**Università degli Studi dell'Insubria**] Marco Benini and Roberta Bonacina, *Kruskal's variations*, 2017. Submitted
- [424] [**Università degli Studi dell'Insubria**] Marco Benini and Roberta Bonacina, *Well-quasi orders in a categorical setting*, 2017. Submitted
- [425] [**Japan Advanced Institute of Science and Technology**] Hajime Ishihara, *On Brouwer's continuity principle*, 2017. To appear
- [426] [**Japan Advanced Institute of Science and Technology**] Hajime Ishihara and Takako Nemoto, *On the independence of premiss axiom and rule*, 2017. Submitted
- [427] [**Japan Advanced Institute of Science and Technology**] Takako Nemoto, *Finite sets and infinite sets in weak intuitionistic arithmetic*, 2017. Submitted
- [428] [**University of Canterbury**] R.A. Alps and Douglas S. Bridges, *Morse set theory as a foundation for constructive mathematics*, To appear

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- [430] [**University of Canterbury**] Douglas S. Bridges, *Intuitionistic sequential compactness?*, To appear. In *Indag. Math.* (special issue on L.E.J. Brouwer, fifty years later)