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- 7. Systems of explicit mathematics with non-constructive μ operator and join, with Th. Glaß, Annals of Pure and Applied Logic 82(2), 1996, pp. 193–219.
- 8. On the proof theory of applicative theories, PhD thesis, Institute for Computer Science and Applied Mathematics, University of Berne, June 1996, 99 pp.
- 9. Polynomial time operations in explicit mathematics, JOURNAL OF SYMBOLIC LOGIC 62(2), 1997, pp. 575–594.
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- 11. Logik in Informatik, Mathematik und Philosophie, Theodor Kocher award lecture, University of Berne, January 1999, 16 pp.
- 12. Bar induction and ω model reflection, with G. Jäger, Annals of Pure and Applied Logic 97(1–3), 1999, pp. 221–230.
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- **14.** On applicative theories, with G. Jäger and R. Kahle, in LOGIC AND FOUNDATIONS OF MATHEMATICS, A. Cantini, E. Casari, P.L. Minari (Eds.), Kluwer, 1999, pp. 83–92.
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- **18.** The unfolding of non-finitist arithmetic, with S. Feferman, Annals of Pure and Applied Logic 104(1–3), 2000, pp. 75–96.
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- 21. Upper bounds for metapredicative Mahlo in explicit mathematics and admissible set theory, with G. Jäger, Journal of Symbolic Logic 66(2), 2001, pp. 935–958.
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- **42.** Unfolding schematic systems, in Feferman on Foundations Logic, Mathematics, Philosophy, G. Jäger and W. Sieg (Eds.), Springer, 2017, pp. 187–208.
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- **56.** A flexible type system for the small Veblen ordinal, with F. Ranzi, Oberwolfach Reports, 11(4), 2014, p. 2943.

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- **59.** Review of Sergei Tupailo, Realization of analysis into explicit mathematics, Journal of Symbolic Logic 66, 2001, Bulletin of Symbolic Logic 9(1), 2003, pp. 42-43.
- **60.** Review of Katalin Bimbó, Proof Theory: Sequent calculi and related formalisms, CRC Press, 2014, Bulletin of Symbolic Logic 22(2), 2016, pp. 288-289.
- 61. Numerous reviews for Mathematical Reviews.

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Preprints of most publications are available online at http://www.iam.unibe.ch/~strahm

Selected talks of Thomas Strahm

- * Invited conference or workshop talk
- Applicative theories and term models, Workshop on Applicative Theories, Berne, March 1994.
- Partiality versus totality in applicative theories, International conference on Proof Theory, Provability Logic, and Computation PPC '94, Berne, March 1994.
- Beweise als Progamme, Colloquium Philosophical Society Berne, June 1994.
- Induction in applicative theories*, EC Workshop on Proof Theory and Computation, Leeds, September 1994.
- Polynomial time operations in applicative theories*, Conference on Mathematical Logic, Oberwolfach, April 1995.
- Polynomial time operations in explicit mathematics*, Special Session on Proof Theory, Logic Colloquium '95, Haifa, August 1995.
- Systems of explicit mathematics with primitive recursive operations plus non-constructive μ operator, 10th International Congress of Logic, Methodology and Philosophy of Science, Florence, August 1995.
- Some new proof-theoretic results about explicit mathematics with non-constructive μ operator, Stanford Logic Seminar, October 1995.
- Polynomial time operations in applicative theories, Logic Colloquium, SRI International, Menlo Park, December 1995.
- Zur Beweistheorie von applikativen Theorien, PhD defense, Berne, June 1996.
- The non-constructive μ operator in explicit mathematics: a survey, Workshop on Applicative Theories and Explicit Mathematics, Berne, June 1996.
- Abstrakte Berechnungen in expliziter Mathematik, Workshop Theoretische Informatik und Logik, Schloss Münchenwiler, April 1997.
- The unfolding of non-finitist arithmetic, Workshop on Proof Theory and Ordinal Analyses, Münster, May 1997.
- Aspects of metapredicativity*, Special Session on Proof Theory, Logic Colloquium '97, Leeds, July 1997.

- Metapredicativity*, Conference on Mathematical Logic, Oberwolfach, January 1998.
- Recent results in metapredicative proof theory, Stanford Logic Seminar, March-April 1998.
- Abstract computations in type-free applicative systems*, Workshop on Proof Theory and Complexity, Aarhus, August 1998.
- Metapredicativity*, Plenary lecture, Logic Colloquium '98, Prague, August 1998.
- Universes in explicit mathematics and admissible set theory*, Workshop on Operations, Sets, and Types, Castiglioncello, October 1998.
- Reflective closures of formal systems*, Reflections Symposium, Stanford, December 1998.
- Logik in Informatik, Mathematik und Philosophie, Theodor Kocher award lecture, University of Berne, January 1999.
- Bar induction and ω model reflection*, Research Workshop on Proof Theory, Leeds, February 1999.
- Theories with self-application and computational complexity*, Workshop on Proof and Computation, Munich, November 1999.
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- Applikative Theorien und Komplexität, Computer Science Colloquium, University of Tübingen, January 2000.
- Applicative theories and classes of computational complexity, Logic Seminar, University of Florence, May 2000.
- Bounded applicative theories, Logic Colloquium 2000, Paris, July 2000.
- Unfolding finitist arithmetic, Logic Colloquium 2000, Paris, July 2000.
- Untyped applicative theories and computational complexity, Mittag-Leffler seminar, Institute Mittag-Leffler, Stockholm, March 2001.
- Das P-NP-Problem und die Grenzen der praktischen Berechenbarkeit, Habilitations-Kolloquium, Berne, June 2001.
- Type-free applicative systems: a proof-theoretic approach to complexities*, Dagstuhl seminar on Proof Theory in Computer Science, Dagstuhl, October 2001. (not delivered because of illness).
- A proof-theoretic characterization of the basic feasible functionals*, Conference on Mathematical Logic, Oberwolfach, April 2002.

- On bounded applicative theories and computational complexities*, Bounded Arithmetic and Complexity Classes BACC 2002, Lisbon, June 2002.
- Logik in Informatik und Mathematik, Forum Mathematik und Unterricht, Berne, May 2004.
- Logik im interdisziplinären Spannungsfeld zwischen Informatik, Mathematik und Philosophie, Fachschaftstagung Mathematik, Gymnasium Köniz, November 2004.
- On the proof theory of type two functionals*, Conference on Mathematical Logic, Oberwolfach, April 2005.
- Unfolding schematic formal systems, Swiss-South African Joint Seminar, Berne, January 2007.
- Kripke-Platek set theory over polynomial time computable arithmetic, Proof, Computation, Complexity '07, Swansea, Wales, April 2007.
- Einige Ideen und Probleme der theoretischen Informatik, Kolloquium Informatik und Unterricht, Berne, January 2008.
- Weak theories of operations and types*, Plenary Lecture, Logic Colloquium '08, Berne, July 2008.
- Primitive recursive selection functions for existential assertions over abstract algebras*, Proof Theory: Workshop on Logic, Foundational Research, and Metamathematics, Münster, July 2008.
- Unfolding arithmetic, Logic Seminar, University of Florence, December 2008.
- Unfolding arithmetic with an emphasis on finitism*, Leeds Symposium on Proof Theory and Constructivism, Leeds, July 2009.
- Two unfoldings of finitist arithmetic, Proof, Complexity and Verification Seminar, University of Swansea, Wales, April 2010.
- The unfolding of non-finitist and finitist arithmetic, Philosophy of Mathematics Seminar, University of Oxford, May 2010.
- Das P-NP-Problem und die Grenzen der praktischen Berechenbarkeit, Fachschaftstagung Informatik, Mathematik und Physik, Gymnasium Muristalden, Berne, November 2010.
- Weak theories of truth and explicit mathematics*, Axiomatic Theories of Truth, Oxford, September 2011.
- Weak theories of operations, truth and types*, Conference on Mathematical Logic, Oberwolfach, November 2011.

- Types and truth in weak applicative theories*, Logical Models of Reasoning and Computation, Moscow, February 2012.
- Weak theories of explicit mathematics and positive truth, Stanford Logic Seminar, July 2012.
- Unfolding schematic formal systems: From non-finitist to feasible arithmetic*, Special Session on Proof Theory, Logic Colloquium '12, Manchester, July 2012.
- Unfolding schematic systems: a survey*, Humboldt Kolleg Proof, Bern, September 2013.
- Finitely stratified inductive definitions, Stanford Logic Seminar, Stanford, October, 2013.
- A flexible type system for the small Veblen ordinal*, Conference on Mathematical Logic, Oberwolfach, November 2014.
- A Feferman-style type system for the small Veblen ordinal*, Trends in Proof Theory, Hamburg, September 2015.
- Unfolding schematic systems with an emphasis on inductive definitions*, Utrecht Workshop on Proof Theory, Utrecht, April 2015.
- Weak theories of operations, types, and truth, OST-meeting in honour of Andrea Cantini, Florence, December 2016.

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