

Complete publication list

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February 2018

a Published refereed journal papers

- 1 – [Ehr93] Thomas Ehrhard. Hypercoherences: A Strongly Stable Model of Linear Logic. *Mathematical Structures in Computer Science*, 3(4):365–385, 1993
- 2 – [BE93] Antonio Bucciarelli and Thomas Ehrhard. A theory of sequentiality. *Theoretical Computer Science*, 113:273–291, 1993
- 3 – [BE94] Antonio Bucciarelli and Thomas Ehrhard. Sequentiality in an Extensional Framework. *Information and Computation*, 110(2):265–296, 1994
- 4 – [Ehr96] Thomas Ehrhard. Projecting sequential algorithms on strongly stable functions. *Annals of Pure and Applied Logic*, 77:201–244, 1996
- 5 – [Ehr99] Thomas Ehrhard. A relative definability result for strongly stable functions and some corollaries. *Information and Computation*, 152:111–137, 1999
- 6 – [Ehr00] Thomas Ehrhard. Parallel and serial hypercoherences. *Theoretical Computer Science*, 247:39–81, 2000
- 7 – [BE00] Antonio Bucciarelli and Thomas Ehrhard. On phase semantics and denotational semantics in multiplicative-additive linear logic. *Annals of Pure and Applied Logic*, 102(3):247–282, 2000
- 8 – [BE01] Antonio Bucciarelli and Thomas Ehrhard. On phase semantics and denotational semantics: the exponentials. *Annals of Pure and Applied Logic*, 109(3):205–241, 2001
- 9 – [Ehr04] Thomas Ehrhard. A completeness theorem for symmetric product phase spaces. *Journal of Symbolic Logic*, 69(2):340–370, 2004
- 10 – [ER03] Thomas Ehrhard and Laurent Regnier. The differential lambda-calculus. *Theoretical Computer Science*, 309(1-3):1–41, 2003
- 11 – [Ehr02] Thomas Ehrhard. On Köthe sequence spaces and linear logic. *Mathematical Structures in Computer Science*, 12:579–623, 2002
- 12 – [Ehr05] Thomas Ehrhard. Finiteness spaces. *Mathematical Structures in Computer Science*, 15(4):615–646, 2005
- 13 – [ER06b] Thomas Ehrhard and Laurent Regnier. Differential interaction nets. *Theoretical Computer Science*, 364(2):166–195, 2006
- 14 – [ER08] Thomas Ehrhard and Laurent Regnier. Uniformity and the Taylor expansion of ordinary lambda-terms. *Theoretical Computer Science*, 403(2-3):347–372, 2008
- 15 – [EL10b] Thomas Ehrhard and Olivier Laurent. Interpreting a finitary pi-calculus in differential interaction nets. *Information and Computation*, 208(6):606–633, 2010
- 16 – [EL10a] Thomas Ehrhard and Olivier Laurent. Acyclic Solos and Differential Interaction Nets. *Logical Methods in Computer Science*, 6(3), 2010
- 17 – [DE11] Vincent Danos and Thomas Ehrhard. Probabilistic coherence spaces as a model of higher-order probabilistic computation. *Information and Computation*, 152(1):111–137, 2011
- 18 – [BEM12] Antonio Bucciarelli, Thomas Ehrhard, and Giulio Manzonetto. A relational semantics of parallelism and non-determinism in a functional setting. *Annals of Pure and Applied Logic*, 163(7):918–934, 2012
- 19 – [Ehr12b] Thomas Ehrhard. The Scott model of Linear Logic is the extensional collapse of its relational model. *Theoretical Computer Science*, 424:20–45, 2012
- 20 – [BCEM12] Antonio Bucciarelli, Alberto Carraro, Thomas Ehrhard, and Giulio Manzonetto.

Full Abstraction for the Resource Lambda Calculus with Tests, through Taylor Expansion. *Logical Methods in Computer Science*, 8(4), 2012

21 – [BET12] Richard Blute, Thomas Ehrhard, and Christine Tasson. A convenient differential category. *Cahiers de Topologie et Géométrie Différentielle Catégoriques*, 53, 2012

22 – [Ehr15] Thomas Ehrhard. An introduction to Differential Linear Logic: proof-nets, models and antiderivatives. *Mathematical Structures in Computer Science*, 2015. To appear

23 – [EPT18a] Thomas Ehrhard, Michele Pagani, and Christine Tasson. Full Abstraction for Probabilistic PCF. *Journal of the ACM*, 2018. To appear

b Papers submitted to international refereed journals or conferences

1 – [ETP15] Thomas Ehrhard, Christine Tasson, and Michele Pagani. Full Abstraction for Probabilistic PCF. Technical report, Preuves, Programmes et Systèmes, 2015. Submitted for publication to a journal

2 – [EJ17] Thomas Ehrhard and Ying Jiang. A Dendroidal Process Calculus. Submitted for publication, 2017

3 – [ET16] Thomas Ehrhard and Christine Tasson. Probabilistic Call By Push Value. *CoRR*, abs/1607.04690, 2016. Submitted for publication

c Papers published in international refereed conferences

1 – [CE87] Thierry Coquand and Thomas Ehrhard. An equational presentation of higher order logic. In *Proceedings of Category Theory in Computer Science 1987*, number 283 in Lecture Notes in Computer Science. Springer-Verlag, 1987

2 – [Ehr89a] Thomas Ehrhard. A categorical semantics of constructions. IEEE Computer Society, 1989

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10 – [BE99] Nuno Barreiro and Thomas Ehrhard. Quantitative semantics revisited (extended abstract). In *Proceedings of the fourth Typed Lambda-Calculi and Applications conference*, volume 1581 of *Lecture Notes in Computer Science*, pages 40–53. Springer-Verlag, 1999

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- 17 – [Ehr10] Thomas Ehrhard. A finiteness structure on resource terms. In *LICS*, pages 402–410. IEEE Computer Society, 2010
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- 19 – [CES10] Alberto Carraro, Thomas Ehrhard, and Antonino Salibra. Resource Combinatory Algebras. In *Mathematical Foundations of Computer Science 2010, 35th International Symposium, MFCS 2010, Brno, Czech Republic, August 23-27, 2010. Proceedings*, volume 6281 of *Lecture Notes in Computer Science*, pages 233–245. Springer-Verlag, 2010
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- 26 – [Ehr14] Thomas Ehrhard. A new correctness criterion for MLL proof nets. In Thomas A. Henzinger and Dale Miller, editors, *Joint Meeting of the Twenty-Third EACSL Annual Conference on Computer Science Logic (CSL) and the Twenty-Ninth Annual ACM/IEEE Symposium on Logic in Computer Science (LICS), CSL-LICS '14, Vienna, Austria, July 14 - 18, 2014*, page 38. ACM, 2014

- 27 – [\[AE15\]](#) Shahin Amini and Thomas Ehrhard. On Classical PCF, Linear Logic and the MIX Rule. In Stephan Kreutzer, editor, *24th EACSL Annual Conference on Computer Science Logic, CSL 2015, September 7-10, 2015, Berlin, Germany*, volume 41 of *LIPICs*, pages 582–596. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2015
- 28 – [\[Ehr16a\]](#) Thomas Ehrhard. Call-By-Push-Value from a Linear Logic Point of View. In Peter Thiemann, editor, *Programming Languages and Systems - 25th European Symposium on Programming, ESOP 2016, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2016, Eindhoven, The Netherlands, April 2-8, 2016, Proceedings*, volume 9632 of *Lecture Notes in Computer Science*, pages 202–228. Springer-Verlag, 2016
- 29 – [\[EG16\]](#) Thomas Ehrhard and Giulio Guerrieri. The Bang Calculus: an untyped lambda-calculus generalizing call-by-name and call-by-value. In James Cheney and Germán Vidal, editors, *Proceedings of the 18th International Symposium on Principles and Practice of Declarative Programming, Edinburgh, United Kingdom, September 5-7, 2016*, pages 174–187. ACM, 2016
- 30 – [\[BEK17\]](#) Pierre Boutillier, Thomas Ehrhard, and Jean Krivine. Incremental update for graph rewriting. In Hongseok Yang, editor, *Programming Languages and Systems - 26th European Symposium on Programming, ESOP 2017, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2017, Uppsala, Sweden, April 22-29, 2017, Proceedings*, volume 10201 of *Lecture Notes in Computer Science*, pages 201–228. Springer, 2017
- 31 – [\[CEPT17\]](#) Raphaëlle Crubillé, Thomas Ehrhard, Michele Pagani, and Christine Tasson. The Free Exponential Modality of Probabilistic Coherence Spaces. In Javier Esparza and Andrzej S. Murawski, editors, *Foundations of Software Science and Computation Structures - 20th International Conference, FOSSACS 2017, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2017, Uppsala, Sweden, April 22-29, 2017, Proceedings*, volume 10203 of *Lecture Notes in Computer Science*, pages 20–35, 2017
- 32 – [\[EPT18b\]](#) Thomas Ehrhard, Michele Pagani, and Christine Tasson. Measurable cones and stable, measurable functions: a model for probabilistic higher-order programming. *PACMPL*, 2(POPL):59:1–59:28, 2018

d Without refereeing

- 1 – [\[Ehr95\]](#) Thomas Ehrhard. Hypercoherences: a strongly stable model of linear logic. In Jean-Yves Girard, Yves Lafont, and Laurent Regnier, editors, *Advances in Linear Logic*, volume 222 of *London Mathematical Society Lecture Notes Series*, pages 83–108. Cambridge University Press, 1995
previously published in a refereed international journal ([\[Ehr93\]](#)).

e Unpublished

- 1 – [\[BE97\]](#) Nuno Barreiro and Thomas Ehrhard. Anatomy of an extensional collapse. Manuscript, December 1997

f Technical reports

- 1 – [\[EL06b\]](#) Thomas Ehrhard and Olivier Laurent. On differential interaction nets and the pi-calculus. Technical Report hal-00096280, CCSD-HAL, 2006
- 2 – [\[BCES09\]](#) Antonio Bucciarelli, Alberto Carraro, Thomas Ehrhard, and Antonino Salibra. On linear information systems. Technical report, Preuves, Programmes et Systèmes, 2009. Presented at the Workshop LINEARITY’09
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