

BIBLIOGRAPHIE (Incomplétude)

(Les articles de G. Longo sont téléchargeables de <http://www.di.ens.fr/users/longo>)

Aczel P. et al. [1992] **Proof Theory**, Cambridge University Press.

Asperti A., Longo G. [1991] **Categories, Types and Structures**. MIT Press (out of print, downloadable from <http://www.di.ens.fr/users/longo>).

Bailly F., Longo G., **Mathématiques et sciences de la nature. La singularité physique du vivant**, Hermann, Paris, 2006. (voir le chapitre 2, sur ces thèmes)

Bailly F., Longo G., "Phenomenology of Incompleteness: from Formal Deductions to Mathematics and Physics", in **Deduction, Computation, Experiment** (Lupacchini ed.), Springer, end of 2008.

Barrow-Green J. **Poincaré and the three body Problem**, AMS, 1997.

Barendregt H. [1984] **The Lambda Calculus: its syntax and semantics**, Revised and expanded edition, North Holland.

Berthoz A. **Le sens du mouvement**, Od. Jacob, 1997.

Boi L. **Le problème mathématique de l'espace**, Springer, 1995.

Bottazzini U., **Poincaré**, Pour la Science, N. Spécial, 4, 2000.

Brouwer L. **Consciousness, Philosophy and Mathematics**, 1948, in Collected Works vol. 1 (Heyting ed.), North Holland, 1975

Coquand T. [1986] "An analysis of Girard paradox", IEEE Conference on **Logic in Computer Science**, Boston, June 1986.

van Dalen D. [1991] "Brouwer's dogma of languageless mathematics and its role in his writings" **Significs, Mathematics and Semiotics** (Heijerman ed.), Amsterdam.

Dahan Delmedico A., Chabert J.-L., Chemla K. **Chaos et déterminisme**, Seuil, 1992.

Dehaene S. [1997], **La bosse des Maths**, Odile Jacob.

Edelman G. [2000] **A Universe of Consciousness**. Basic Books.

Fruchart T., Longo G. [1997] "Carnap's remarks on Impredicative Definitions and the Genericity Theorem" in X Conference on **Logic, Methodology and Philosophy of Science**, Cantini et al. (eds.), Kluwer.

Gallier J. [1991] "What is so special about Kruskal's theorem and the ordinal Gamma_0?" **Ann. Pure. Appl. Logic**, 53.

Girard J.Y., Lafont Y., Taylor R. [1989] **Proofs and Types**, Cambridge University Press.

Goldblatt R. [1979] **Topoi-The Categorial Analysis of Logic**, North Holland, Amsterdam.

Gödel K., Nagel E., Newman J., Girard J.-Y. **Le théoreme de Gödel**, Seuil, 1989 (il contient l'article de Gödel de 1931).

Harrington L. et al. (eds) [1985], **H. Friedman's Research on the Foundations of Mathematics**, North-Holland.

Herrenschmidt C. **Les trois écritures**, Gallimard, 2007.

Hindley R., Seldin J. [1986] **Introduction to Combinators and Lambda-Calculus**, London Mathematical Society.

Hyland J.M.E., Pitts A. [1987] "The Theory of Constructions: categorical semantics and topos theoretic models", **Categories in Computer Science and Logic**, Boulder (AMS notes).

Hyland M. [1987] "A small complete category" Lecture delivered at the Conference Church's Thesis after 50 years, Zeiss (NL), June 1986 in **Ann. Pure Appl. Logic**, 40 (1988).

Kruskal J. [1960] "Well-quasi-ordering and the tree theorem" **Trans. Amer. Math. Soc.** 95.

Johnstone P.T. [1977] **Topos Theory**. Academic Press, London.

Lambek J., Scott P.J. [1986] **Introduction to higher order Categorical Logic**, Cambridge U. Press.

Lawvere F.W. [1966] "The Category of categories as a Foundation for Mathematics", in Proc. Conf. on **Categorical Algebra**, S. Eilenberg et al. (eds.), La Jolla, 1965, Springer-Verlag.

Lawvere F.W. [1976] "Variable quantities and variable structures in topoi", in **Algebra Topology and Category Theory**: a collection of papers in honor of Samuel Eilenberg, A. Heller and M. Tierney (eds.), Academic Press, (101-131).

Lighthill J. "The recently recognized failure of predictability in Newtonian dynamics" **Proc. R. Soc. Lond. A** 407, 35-50, 1986.

Longo G. [1983] "Set-Theoretical Models of Lambda-Calculus: Theories, Expansions, Isomorphisms", **Annals Pure Applied Logic**, 24, (153-188).

Longo G. "Géométrie, Mouvement, Espace: Cognition et Mathématiques" **Intellectica**, 2, n. 25, 1997.

Longo G. [1998] "The mathematical continuum, from intuition to logic" in **Naturalizing Phenomenology**, (J. Petitot et al., eds) Stanford U.P., 1998.

Longo G. "Mathematical Intelligence, Infinity and Machines: beyond the Goedelitis". Invited paper, **Journal of Consciousness Studies**, special issue on Cognition, vol. 6, n. 11-12, 1999.

Longo G. "Reflections on Incompleteness, or on the proofs of some formally unprovable propositions and Prototype Proofs in Type Theory" Invited Lecture, **Types for Proofs and Programs**, Durham, (GB), Dec. 2000; **Lecture Notes in Computer Science**, vol 2277 (Callaghan et al. eds), pp. 160 - 180, Springer, 2002.

Longo G. Proofs and Programs (*Type Theory: an introduction, some reflections*). **Synthese**, vol. 134, nos. 1-2, pp. 85-117, Kluwer, Boston, 2003.

Longo G., Milsted K. and Soloviev S., "The genericity theorem and the notion of parametricity in the polymorphic Lambda-calculus" **Theoretical Comp. Sci.** vol. 121, 1993.

Longo G., Moggi E. [1991] "Constructive Natural Deduction and its Omega-Set Interpretation" **Mathematical Structures in Computer Science**, vol.1, n.2.

Longo G., Tendero P.-E., "The differential method and the causal incompleteness of Programming Theory in Molecular Biology". In **J. of Foundation of Sciences**, n. 12: 337-366, 2007.

Lucas J. [1961] "Minds, Machines and Godel" **Philosophy**, 36, pp. 120-124. Reprinted in (Anderson ed.) **Minds and Machines**, 1964.

Lucas J. [1970] **The freedom of the will**, Oxford U.P..

Mac Lane S. [1971] **Categories for the Working Mathematician**, Springer, New York.

Martin-Löf P. [1975] "An intuitionistic theory of types" **Logic Colloquium 73**, Rose Shepherdson (Eds.), North-Holland (73-118).

Martin-Löf P. [1984] **Intuitionistic Type Theory**, Bibliopolis, Napoli.

Nash-Williams C., "On well-quasi-ordering of finite trees" **Proc. Cambr. Phil. Soc.** 59, 1963.

Paris J., Harrington L., "A mathematical incompleteness in Peano Arithmetic", in **Handbook of Mathematical Logic**, 1978.

Petitot J., Varela F., Pachoud B. Roy J.-M. (editors) **Naturalizing Phenomenology: issues in contemporary Phenomenology and Cognitive Sciences**, Stanford U. P., 1999.

Poincaré H. [1968], **La Science et l'Hypothèse**, Flammarion.

Prawitz D.[1965] **Natural Deduction**, Almqvist&Wiksell.

Rathjen M., Weiermann A. "Proof-theoretic investigations on Kruskal's theorem." **Annals of Pure and Applied Logic**, 60, 49--88, 1993.

Scott D. [1980] "Lambda-calculus, some models, some philosophy," **The Kleene Symposium** (Barwise et al. eds.) North-Holland.

Scott D. and Gunter C. [1990] "Semantic Domains" **Handbook of Theoretical Computer Science**, J. van Leeuwen (ed), North Holland.

Shanker S. **Gödel's Theorem on focus**, Croom Helm, 1988.

Smorinsky A. [1978] "The Incompleteness Theorem" **Handbook of Mathematical Logic**, Barwise et al. eds, North Holland.

Troelstra A.S. [1974] **Metamathematical investigation of Intuitionistic Logic and Mathematics**, LNM 344, Springer-Verlag.

Waismann F., **Wittgenstein and the Vienna circle : conversations recorded by F. Waismann**, Barnes & Noble Books, New York, 1979.

Wittgenstein L. [1956] **Remarks on the foundation of Mathematics.**

Wittgenstein L., **Philosophical Remarks.** Engl. transl. by G. E. M. Anscombe, Barnes & Noble, New York, 1968.