A Graphical Representation of the Solos Calculus

CM30082 Literature Review

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Ehrhard, Thomas and Laurent, Olivier. Acyclic Solos and Differential Interaction Nets. In *Logical Methods in Computer Science*, vol. 6(3):1–36 (2010). ISSN 18605974.

Laneve, Cosimo, Parrow, Joachim and Victor, Björn. Solo Diagrams. In *Theoretical Aspects of Computer Software: 4th International Symposium, TACS 2001 Sendai, Japan, October 29–31, 2001 Proceedings*, (pp. 127–144). Springer Berlin Heidelberg (2001). ISBN 978-3-540-45500-4.

Laneve, Cosimo and Victor, Björn. Solos in Concert. In *Automata, Languages and Programming: 26th International Colloquium, ICALP'99 Prague, Czech Republic, July 11–15, 1999 Proceedings*, (pp. 513–523). Springer Berlin Heidelberg (1999). ISBN 978-3-540-48523-0.

Machado, Rodrigo. An Introduction to Lambda Calculus and Functional Programming. (pp. 26–33). IEEE (2013). ISBN 978-1-4799-3057-9.

Miculan, Marino. A Categorical Model of the Fusion Calculus. In *Electronic Notes in Theoretical Computer Science*, vol. 218(1):275–293 (2008). ISSN 1571-0661.

Parrow, Joachim. An Introduction to the π-Calculus. In *Handbook of Process Algebra*, (pp. 479–543). Elsevier Science (2001). ISBN 1-281-03639-0.