

Bialgebraic foundations for the operational semantics of string diagrams

Bonchi, Filippo; Piedeleu, Robin; **Sobocinski, Pawel Maria**; Zanasi, Fabio Information and computation 2021 / art. 104767, 22 p
<https://doi.org/10.1016/j.ic.2021.104767> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Context-Free Languages of String Diagrams

Earnshaw, Matthew David; Román, Mario arXiv.org 2024 / 24 p. : ill <https://doi.org/10.48550/arXiv.2404.10653>

Contextual equivalence for signal flow graphs

Bonchi, Filippo; Piedeleu, Robin; **Sobocinski, Pawel Maria**; Zanasi, Fabio Foundations of Software Science and Computation Structures : 23rd International Conference, FOSSACS 2020, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2020, Dublin, Ireland, April 25-30, 2020 : proceedings 2020 / p. 77-96 https://doi.org/10.1007/978-3-030-45231-5_5
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Diagrammatic algebra of first order logic

Bonchi, Filippo; Di Giorgio, Alessandro; **Haydon, Nathan Joseph**; **Sobocinski, Pawel Maria** LICS '24 : proceedings of the 39th Annual ACM/IEEE Symposium on Logic in Computer Science 2024 / art. 16, p. 1-15 : ill <https://doi.org/10.1145/3661814.3662078>
[Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Diagrammatic algebra of first order logic : [preprint]

Bonchi, Filippo; Di Giorgio, Alessandro; **Haydon, Nathan Joseph**; **Sobocinski, Pawel Maria** arXiv.org 2024 / 34 p. : ill
<https://doi.org/10.48550/arXiv.2401.07055>

Diagrammatic polyhedral algebra

Bonchi, Filippo; Di Giorgio, Alessandro; **Sobocinski, Pawel Maria** 41st IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2021) 2021 / p. 40:1-40:18 <https://doi.org/10.4230/LIPIcs.FSTTCS.2021.40>
[Conference Proceedings at Scopus](#) [Article at Scopus](#)

A foundation for ledger structures

Nester, Chad Mitchell 2nd International Conference on Blockchain Economics, Security and Protocols : Tokenomics 2020, October 26–27, 2020, Toulouse, France 2021 / art. 7, p. 7:1–7:31 <https://doi.org/10.4230/OASlcs.Tokenomics.2020.7>

High-level axioms for graphical linear algebra

Paixao, Joao; Rufino, Lucas; **Sobocinski, Pawel Maria** Science of computer programming 2022 / art. 102791 ; 26 p
<https://doi.org/10.1016/j.scico.2022.102791> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On doctrines and Cartesian bicategories

Bonchi, Filippo; Santamaria, Alessio; Seeber, Jens; **Sobocinski, Pawel Maria** CALCO 2021 : 9th International Conference on Algebra and Coalgebra in Computer Science, Aug 31 - Sep 3, 2021, Salzburg, Austria : proceedings 2021 / p. 10:1–10:7
<https://doi.org/10.4230/LIPIcs.CALCO.2021.10> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Regular monoidal languages

Earnshaw, Matthew David; **Sobocinski, Pawel Maria** Leibniz International Proceedings in Informatics, LIPIcs 2022 / p. 44:1-44:14
<https://doi.org/10.4230/LIPIcs.MFCS.2022.44> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Regular planar monoidal languages

Earnshaw, Matthew David; **Sobocinski, Pawel Maria** Journal of logical and algebraic methods in programming 2024 / art. 100963, 20 p. : ill <https://doi.org/10.1016/j.jlamp.2024.100963> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

String diagram rewrite theory III : confluence with and without Frobenius

Bonchi, Filippo; Gadducci, Fabio; Kissinger, Aleks; **Sobocinski, Pawel Maria**; Zanasi, Fabio Mathematical structures in computer science 2022 / p. 829-869 <https://doi.org/10.1017/S0960129522000123> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A survey of Compositional signal flow theory

Bonchi, Filippo; **Sobocinski, Pawel Maria**; Zanasi, Fabio Advancing Research in Information and Communication Technology : IFIP's Exciting First 60+ Years, Views from the Technical Committees and Working Groups 2021 / p. 29–56 https://doi.org/10.1007/978-3-030-81701-5_2 [Article collection metrics at Scopus](#) [Article at Scopus](#)