

### **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](#)

### **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](https://doi.org/10.1007/978-3-030-45231-5_5)  
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### **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>

### **Diagrammatic algebra of first order logic : [preprint]**

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### **Diagrammatic polyhedral algebra**

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### **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  
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### **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  
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### **Regular monoidal languages**

**Earnshaw, Matthew David**; **Sobocinski, Pawel Maria** Leibniz International Proceedings in Informatics, LIPIcs 2022 / p. 44:1-44:14  
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### **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](#)  
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### **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](https://doi.org/10.1007/978-3-030-81701-5_2) [Article collection metrics at Scopus](#) [Article at Scopus](#)