

Substitutions in Non-commutative Multivariate Power Series

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We describe a group law on formal power series in non-commuting variables induced by their interpretation as linear forms on a Hopf algebra of sentences. We study the corresponding structures and show how they can be used to recast in a group theoretic form various identities and transformations on formal power series that have been central in the context of non-commutative probability theory. Based on joint work with K. Ebrahimi-Fard, N. Tapia, and L. Zambotti.

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