

Wick polynomials in non-commutative probability

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Abstract

In this talk I will focus on Wick polynomials for non-commuting random variables. I will present a shuffle algebra (a generalization of Zinbiel algebras, Koszul dual to dialgebras) approach to the combinatorics of such polynomials in the free, boolean and monotone settings, building on previous work by K. Ebrahimi-Fard, F. Patras and a joint work with K. Ebrahimi-Fard, F. Patras and L. Zambotti.