

Demi-Shuffle Duals of Magnus Polynomials in a Free Associative Algebra

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We study two linear bases of the free associative algebra: one is formed by the Magnus-type polynomials and the other is its dual basis (formed by what we call the “demi-shuffle” polynomials) with respect to a standard pairing. As an application, we show a formula of Le-Murakami, Furusho type that expresses arbitrary coefficients of a group-like series in terms of its “regular” coefficients. This talk illustrates my recent paper published in Algebraic Combinatorics Volume 6 (2023) no. 4, pp. 929-939.

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