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Motivic Galois theory for Feynman integrals via twisted cohomology (Virtual)

Friday, 24 March 2023 09:30 (1 hour)

I will report on ongoing joint work with Francis Brown, Javier Fresán, and Matija Tapušković, in which we prove that dimensionally regularized Feynman integrals are closed under the action of the motivic Galois group, termwise in the epsilon expansion. This fits into a larger framework of motivic Galois theory for algebraic Mellin transforms, where the main protagonists are formal versions of « twisted » cohomology groups for algebraic varieties.

Presenter: DUPONT, Clément