

Hopf-Algebraic Renormalization of Multiple Zeta Values and their q-analogues

jeudi 3 décembre 2020 16:30 (50 minutes)

After a brief introductory account, I'll explain how a quasi-shuffle compatible definition (by no means unique) of multiple zeta values can be given for integer arguments of any sign, through Connes-Kreimer's Hopf-algebraic renormalization. Finally, I'll introduce the Ohno-Okuda-Zudilin model of q-analogues for multiple zeta values, describe the algebraic structure which governs it, and explain how it could open a way to the more delicate renormalization of shuffle relations.

Orateur: MANCHON, Dominique (LMBP, CNRS (UMR 6620) Université de Clermont Auvergne)