

Modular deformations of Lie algebras - from $\mathfrak{sl}(2)$ to Virasoro

mercredi 25 septembre 2024 11:30 (1 heure)

In this talk, I introduce new q -deformations of Lie algebras linked to the modular group and the q -rational numbers of Morier-Genoud and Ovsienko. In particular, a deformation of the Lie algebra $\mathfrak{sl}(2)$, the Witt algebra and a glimpse on the Virasoro algebra will be presented. These deformations are realized through concrete differential operators and lead to a new understanding of q -rationals.

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