

Structure of moduli algebras and application to skein algebras

vendredi 24 mars 2023 09:00 (45 minutes)

The moduli algebra of a compact oriented surface with n punctures ($n > 0$) is a “twisted tensor product” of several copies of the quantized coordinate algebra $O_q(G)$. I will first explain the definition. Then I will present results on the structure of these algebras, namely that they are finitely generated, Noetherian and do not contain zero divisors. If time permits, the ingredients of the proofs will be discussed. Finally I will define an isomorphism between moduli algebras and skein algebras. In this talk we only consider quantum groups at generic parameter (no roots of unity).

Joint work with S. Baseilhac and P. Roche.

Orateur: Dr FAITG, Matthieu