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Quantum representations of mapping class groups: factorization homology techniques

Thursday 21 September 2023 11:00 (55 minutes)

Suitable representation categories of Hopf algebras or vertex operator algebras give rise to systems of representations of mapping class groups. These are also referred to as modular functors. In my talk, I will give an approach to these representations via factorization homology, a replacement for the classical skein-theoretic methods. Particular emphasis will lie on the insights that we can gain from this new description in the situation where the modular functors are built from non-semisimple representation categories. This is based on different joint works with Adrien Brochier and Lukas Müller.

Presenter: Dr WOIKE, Lukas (Dijon)