
Hopf25

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Plenary talk, Forum E

Friday, April 25, 2025

10h30-10h55

Frobenius functors and pivotal comodule algebras

A tensor functor between tensor categories can have isomorphic adjoint functors. We define a notion of Frobenius functors that accounts for the extra structure of bimodule categories. This condition will allow for the transport of unimodular and pivotal structures of module categories, thereby producing examples of Frobenius algebras. The purpose of the talk is to present this procedure in the context of Hopf algebras and pivotal comodule algebras.