Hopf25

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Parallel sessions, Forum G

Tuesday, April 22, 2025

16h30-16h55

Tannakian Reconstruction for fusion 2-categories

We will examine the Tannakian formalism for fiber functors landing in an arbitrary fusion 2-category. In particular, we will show the necessary and sufficient criteria for such a category to be reconstructible as a category of modules for a (Hopf) algebra object, and related results. In particular, we will realize every fusion 2-category as representations of a weak Hopf algebra object and show that all Hopf monoidal categories are group theoretical.