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A topological characterisation on the Kashiwara-Vergne groups

Monday 29 August 2022 11:00 (50 minutes)

This talk is based on joint work with Iva Halacheva and Marcy Robertson (<https://arxiv.org/pdf/2106.02373.pdf>) and ongoing joint work with Tamara Hogan and Marcy Robertson. I will present a topological characterisation of the Kashiwara-Vergne groups KV and KRV as automorphism groups of wheeled PROPs (aka circuit algebras) of certain four-dimensional tangles, and their associated graded space of “arrow diagrams”. I’ll also explain how the Alekseev-Torossian map $GRT \rightarrow KRV$ arises in this context as a map from classical chord diagrams to arrow diagrams.

Presenter: DANCOS, Zsuzsi (Sydney)