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## A topological characterisation on the Kashiwara-Vergne groups

*Monday, August 29, 2022 11:00 AM (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:** DANCSO, Zsuzsi (Sydney)