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Mathew Bullimore: Representation theory for categorical symmetries

Tuesday, 29 August 2023 10:15 (1 hour)

My talk is about how categorical symmetries act on and organise the spectrum of non-topological extended operators in QFT. I will address this question from two equivalent perspectives: the representation theory of higher tube algebras and the sandwich construction of symmetries via the Drinfeld center. I'll discuss a variety of examples in three dimensions: invertible symmetries and higher twisted Drinfeld doubles, Ising-like symmetries, and braided fusion symmetries. Based on <https://arxiv.org/abs/2305.17165>.