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INVITED TALK: Topics in quantum topological data analysis

Thursday 23 November 2023 11:15 (45 minutes)

Abstract:

Although still a relatively niche field in classical machine learning, topological data analysis has raised substantial interest from the perspective of quantum algorithms in the last few years.

In this talk we will introduce the topic of topological data analysis, and discuss the state-of-art of quantum algorithms for this problem, together with their promises and limitations, possible generalisations and connections to many-body physics.

Presenter: DUNJKO, Vedran (Leiden University)