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Tuning the Shape and Structure of Quantum Machine Learning Circuits for Optimal Image Recognition

Thursday, 20 November 2025 12:30 (30 minutes)

The enormous amount of data from Earth observations requires machine processing. Quantum computers have the potential to be very helpful in this. When recognizing images using quantum machine learning (QML), classification accuracy is obviously very important. This talk will, among other things, show how the shape and structure of the parameterized quantum circuit (ansatz) used affects this accuracy and also the learning speed of the QML model.

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