Contribution ID: 28

Machine Learning Quantum Integrability

Tuesday 16 January 2024 09:15 (45 minutes)

We design and train a novel Siamese Network inspired ensemble of MLPs to directly obtain solutions to the Yang-Baxter equation. Our method exhaustively reproduces the entire classification of known solutions for two dimensional spin chains. We also comment on new solutions in higher dimension which are part of work in progress. The talk is based on arXiv:2304.07247 and on work in progress, with Suvajit Majumder and Evgeny Sobko.

Presenter: LAL, Shailesh