Contribution ID: 57

Machine learning in lattice QCD and beyond

Tuesday 11 February 2025 11:55 (20 minutes)

I will give an overview of our group's progress in applying machine learning to lattice QCD, including the design of gauge-equivariant neural network layers that can learn a fixed-point action. I will also share our ongoing work on diffusion models and ideas for collaborative efforts towards large physics models.

I would like to take this chance to promote the European Coalition for AI in Fundamental Physics (EuCAIF) and its role in the upcoming JENA white paper on European Federated Computing.

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Session Classification: Talks - Tuesday