



Contribution ID: 20

Type: **not specified**

Hands on NeuLat: a toolbox for neural samplers in lattice field theory

Thursday, October 24, 2024 11:50 AM (40 minutes)

Normalizing flows have increasingly gained attention as a promising choice for sampling in lattice field theory. However, there has been a lack of software packages for applying powerful generative Machine Learning models such as Normalizing flows specifically for lattice field theory. To fill this gap, we present NeuLat: a fully customizable software package that allows researchers in lattice field theory to harness the recent advances in deep generative learning. In this hands-on session, we explore how NeuLat can considerably simplify the application and benchmarking of deep generative models for lattice quantum field theory.

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