Lattice 2024



Contribution ID: 452 Type: Talk

## Progress in normalizing flows for 4d gauge theories

Wednesday, 31 July 2024 11:35 (20 minutes)

Normalizing flows have recently arisen as a potential tool for aiding in sampling lattice field theories. In this talk I will give an overview of our groups' recent progress in applying normalizing flows to 4-dimensional nonabelian gauge theories, as well as current efforts to scale normalizing flows towards modern lattice field theory calculations.

**Primary authors:** HACKETT, Daniel (Fermilab); ROMERO-LOPEZ, Fernando (MIT / Uni Bern); KANWAR, Gurtej (University of Bern); SHANAHAN, Phiala (Massachusetts Institute of Technology); ABBOTT, Ryan (Massachusetts Institute of Technology)

**Presenter:** ABBOTT, Ryan (Massachusetts Institute of Technology) **Session Classification:** Algorithms and artificial intelligence

Track Classification: Algorithms and Artificial Intelligence