

# QCD Vacuum Structure and Confinement



Contribution ID: 28

Type: **not specified**

## Review of Lattice Gauge Field Theory

*Thursday 29 August 2024 17:35 (20 minutes)*

Lattice gauge theory provides a method for studying gauge theories in their non-perturbative regime and offers a formulation that can be simulated on powerful computers. I will present a review of gauge fields on a lattice and a Python implementation of lattice gauge theory simulations using Metropolis Monte Carlo technique, following the pioneering work of M. Creutz and others, to measure important physical observables.

**Author:** KARYDIS, Vaggelis (National Technical University, Athens)

**Presenter:** KARYDIS, Vaggelis (National Technical University, Athens)