

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.

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