HHIQCD2024



Contribution ID: 109 Type: 5th week (Formal developments and other frontiers in lattice QCD)

Gauging C on the Lattice

Tuesday, November 12, 2024 2:00 PM (1 hour)

We will discuss general aspects of charge conjugation symmetry in Euclidean lattice field theories including its dynamical gauging. As an application, we construct O(2) gauge theory on the lattice using a non-abelian generalization of the Villain formulation. This lattice discretization preserves a myriad of generalized global symmetries of the continuum theory, and we describe how to construct the associated symmetry operators and discuss their implications and associated selection rules.

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