



Contribution ID: 18 Type: 5th week (Formal developments and other frontiers in lattice QCD)

Z3 lattice gauge theory as a toy model of QCD

Friday, November 15, 2024 11:30 AM (1 hour)

The infinite-dimensional Hilbert space of $SU(3)$ gauge field makes the quantum simulation of QCD difficult. In this talk, I would like to propose Z_3 lattice gauge theory as a toy model with the finite-dimensional Hilbert space. I will discuss the similarity and difference compared with QCD and the application to quantum simulation.

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Session Classification: Seminar (5th week)