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## 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.

**Primary author:** YAMAMOTO, Arata (University of Tokyo)

**Presenter:** YAMAMOTO, Arata (University of Tokyo)

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