Contribution ID: 30 Contribution code: Forrström-1 Type: Scheduled Talks

An introduction to lattice gauge theories

Monday, May 12, 2025 9:05 AM (55 minutes)

Lattice gauge theories are higher dimensional analogs of famous models such as the Ising model, the XY model, and the clock model. At the same time, they are extremely well-studied models in the physics literature as they are discretizations of the Yang-Mills model in physics, which describes the standard model. In this minicourse, we will introduce lattice gauge theories, discuss and deduce some of their properties, and contrast this to the behavior of, e.g., the Ising model.

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