Contribution ID: **99**   Type: **Poster**

Computation of the Berry curvature in lattice QCD

Tuesday 15 May 2018 19:10 (30 minutes)

The Berry curvature is a fundamental quantity to describe the chiral magnetic effect and chiral kinetic theory. While it can be analytically tractable in non-interacting systems, numerical simulations are necessary in interacting systems. We formulated the lattice simulation to calculate the Berry curvature in interacting systems. We present the first result in quenched lattice QCD.

Content type

Theory

Collaboration

Centralised submission by Collaboration

Presenter name already specified

Primary author: YAMAMOTO, Arata

Co-author: PU, Shi

Presenter: YAMAMOTO, Arata

Session Classification: Poster Session

Track Classification: New theoretical developments