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Unphysical topological charge of nonabelian gauge theory and implications to hadron physics

Tuesday 25 April 2023 16:40 (20 minutes)

We show that the topological charge of nonabelian gauge theory is not observable. We then inspect the phenomenological consequences to hadron physics and experiments such as the physical relevance of the axial U(1) symmetry and the unobservability of the chiral magnetic effect.

Theory / experiment

Theory

Group or collaboration name

Primary author: Dr YAMANAKA, Nodoka (KMI, Nagoya University)Presenter: Dr YAMANAKA, Nodoka (KMI, Nagoya University)Session Classification: Poster Session

Track Classification: New theoretical developments