QCD Vacuum Structure and Confinement



Contribution ID: 13

Type: not specified

Proton Spin and twist particles

Thursday 29 August 2024 11:00 (45 minutes)

Abstract : Both electroweak monopole and electroweak string could exist in the standard model. In this talk we will argue that the existence of the electroweak Cho-Maison monopole indicates the existence of the electroweak string in the standard model made of monopole-antimonopole pair separated infinitely apart, which carry the quantized magnetic flux $4\pi n/e$. We show how to construct such quantized magnetic flux string solution. Our result strongly indicates that genuine fundamental electromagnetic string could exist in nature which could actually be detected.

Author: Prof. ZHANG, Pengming (Sun Yat-sen University, Zhuhai)

Presenter: Prof. ZHANG, Pengming (Sun Yat-sen University, Zhuhai)