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Flux Tubes and Confinement in Lattice Quantum Chromodynamics.

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Abstract: Color confinement is a fundamental non-perturbative aspect of Quantum Chromodynamics (QCD). Despite decades of research and numerical lattice simulations, a complete understanding of this phenomenon has remained elusive. Although a rigorous mathematical proof is still lacking, efforts to understand confinement could hold significant value for comprehending broader aspects of QCD, such as the phase diagram. In this talk, following a brief general introduction, we will focus on the study of flux tube structures on the lattice, exploring them as a manifestation of color confinement.

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