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Quantum Chromodynamics and Hadron Structure

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It is widely believed that Quantum Chromodynamics (QCD)—a covariant non-abelian gauge theory—as an underlying theory of strong interaction at low energy. QCD was discovered 50 years ago, but our understanding of its properties, including color confinement, asymptotic freedom, and spontaneous chiral symmetry breaking, is still far from complete. This incomplete comprehension of QCD imply to limits our understanding of the internal structure of hadrons and the QCD phase diagram. In this talk, we will explore and discuss the recent developments of QCD and its properties, as well as the consequences for the internal structure of hadrons.

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