

## Experimental opportunities in hadron physics

*jeudi 16 septembre 2021 10:00 (30 minutes)*

Quantum Chromodynamics is the accepted theory of the strong interaction. The gauge bosons transmitting the force are gluons. However, the non-perturbative part of QCD is far from being understood on a fundamental level. Non-perturbative aspects of QCD can be especially well studied when the gauge fields play a prominent role. A typical example are glueballs, massive particles composed solely of a priori massless gluons, which are an excellent case to proof our understanding of non-perturbative QCD. The only problem that remains is the unambiguous identification glueballs and interpretation of glueballs. Other unusual quark-gluon configurations predicted as well by QCD have been clearly identified in recent years by experiments and will pave the path for a deeper understanding of the underlying theory. The talk reviews the current status and future perspectives on experimental studies of non-perturbative QCD.

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