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A review on Glueball hunting

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One of the most direct predictions of QCD is the existence of color-singlet states called Glueballs, which emerge as a consequence of the gluon field self-interactions.

Despite the outstanding success of QCD as a theory of the strong interaction and decades of experimental and theoretical efforts, all but the most basic properties of Glueballs are still being debated.

In this talk, I will review efforts aimed to understanding Glueballs and the current status of Glueball searches, including recent experimental results and lattice calculations.

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