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Glueballs - fundamental, exciting and elusive

physikalisches

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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. Therefore, glueballs, massive particles composed solely of a priori massless gluons, are an excellent case to proof our understanding of non-perturbative QCD. The only problem that remains is the unambiguous identification and interpretation of glueballs. The talk reviews the current status and future perspectives.

Dalitz plot of antiproton-proton annihilations at rest into 3 neutral pions

