

XVth Quark Confinement and the Hadron Spectrum



Contribution ID: 319

Type: Oral

Conformality, confinement and chiral symmetry breaking

Thursday 22 August 2024 14:30 (30 minutes)

We study the dynamics and interrelation of chiral symmetry breaking and confinement in QCD in the many flavour limit. This includes an investigation of close-conformal theories, also providing a quantitative estimate for the lower boundary of the Caswell-Bank-Zaks window. This work is done with the functional renormalisation group approach to first principle QCD, and offers a self-consistent framework for charting out the landscape of strongly interacting gauge-fermion theories potentially relevant for beyond Standard Model physics.

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Session Classification: Strongly-Coupled Theories and Dark Matter

Track Classification: G: Strongly-Coupled Theories and Dark Matter