



Contribution ID: 19

Type: **Long talk (20 mins)**

Five loop analysis of stable fixed points in QCD

Thursday, 15 December 2022 17:20 (30 minutes)

We examine the phase plane of perturbative QCD involving a coupling constant and gauge parameter. We explore the fixed points in different schemes and with different gauge fixing terms in order to investigate the physical structure of the theory through recourse to scheme and gauge independence. Particularly the quark mass anomalous dimension and critical slope are considered at both the Bank-Zaks and Infra-Red stable fixed points of pQCD in a variety of kinematic and non-kinematic schemes as well as linear and non-linear gauge fixing to all available loop orders.

Type of presentation

20 minute talk

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QCD

Primary author: MASON, Robert**Presenter:** MASON, Robert**Session Classification:** Full Length Talks