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UV conformal window for asymptotically safe gauge-Yukawa theories

Thursday, 11 January 2018 13:30 (20 minutes)

We investigate a class of strictly four-dimensional, renormalisible gauge-Yukawa theories which exhibit Asymptotic Safety - their UV behaviour is controlled by an interacting, ultraviolet fixed point. The conformal window introduced by this fixed point is studied in a systematic expansion, provided by the Veneziano limit. Constraints from the strong coupling limit, fixed point mergers and vacuum instability are formulated. We will show that the conformal window lies within a perturbative regime.

What would be the preferred length of your talk?

20 minutes + questions

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