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Fumagalli – Predictiveness of inflation with the Higgs boson

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The predictions of (Standard model) Higgs inflation are in excellent agreement with the Planck data, without needing new particles beyond the ones we know. Nevertheless, introducing some threshold corrections is demanded by the consistency of the theory. This raises the question: how sensitive the CMB predictions are to the UV completion? I will show that as long as the UV corrections do not affect the inflaton potential at tree level but only enter at loop level via corrections to the renormalization group equations, the inflationary predictions are (almost) unaffected.

Presenter: Mr FUMAGALLI, Jacopo (NIKHEF)

Session Classification: Contributed talks