

Phenomenology 2020 Symposium



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Type: **Parallel Talk**

Towards predictivity in asymptotically safe quantum gravity with matter

Tuesday 5 May 2020 14:15 (15 minutes)

In this talk, I will briefly introduce the scenario of asymptotically safe quantum gravity as a UV complete description of nature. In particular, I will focus on the enhanced predictive power coming along with the existence of an interacting UV fixed point of quantum gravity and matter. This allows to predict the IR values of some standard-model couplings, and might even give rise to a preferred dimensionality of our universe. In parts based on Phys.Lett.B 793 (2019) 383–389.

Summary

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Session Classification: Theoretical Developments & Extra Dimensions

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