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Is asymptotically safe inflation eternal?

Thursday 9 September 2021 15:10 (20 minutes)

Recently, based on swampland considerations in string theory, the (no) eternal inflation principle has been put forward. The natural question arises whether similar conditions hold in other approaches to quantum gravity. In this talk I will discuss the asymptotic safety hypothesis in the context of eternal inflation. As exemplary inflation- ary models the SU(N) Yang-Mills in the Veneziano limit and various RG-improvements of the gravitational action will be discussed. I will also discuss the finite action principle in the context of initial conditions for the Universe and (eternal) inflation.

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