

# JOINT TUFTS/MIT COSMOLOGY SEMINAR

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*Is asymptotically safe inflation  
eternal?*

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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 inflationary 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.

**Tuesday, March 2, 2021, 2:30 pm**

Zoom link will be distributed to joint cosmology seminar mailing list. If not subscribed see <https://cosmos.phy.tufts.edu/mailman/listinfo/cosmology-seminar>

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