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## Effects of $F^4$ -corrections on String Inflation

*Thursday 28 July 2022 12:12 (18 minutes)*

In this talk I will discuss higher order  $F^4$ -corrections on the type IIB scalar potential considering divisor topologies associated with Calabi Yau threefolds suitable for implementing the LARGE Volume Scenario for the moduli stabilization. I will focus on analyzing the effects of such corrections on string inflationary model and, in particular, on fiber and blow-up inflation. The obtained results will be compared with phenomenological observations and conditions on the parameters of the models will be given in order to preserve the inflationary dynamics and make the picture consistent.

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