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Perturbative de Sitter and Brane Inflation

Thursday 6 July 2023 15:00 (15 minutes)

RG-induced moduli stabilisation was recently proposed as a new mechanism that adapts to string theory a perturbative method for stabilising moduli without leaving the domain of perturbative control and without the inclusion of non-perturbative effects. In this talk, we briefly revise the necessary ingredients in the construction of this mechanism. In addition, we examine the cosmological implications of the corresponding scalar potential in the framework of brane-antibrane inflation and show that inflationary observables can be reproduced within the regime of parametric control of the four-dimensional effective field theory.

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