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Cosmological model by flux compactification in generalized varieties

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Abstract content

In the present work a cuadratic potential of the form $V(\phi) = Vo + \frac{m}{2}\phi^2$ is reproduced by a compactification of the Type IIB string theory in a twisted torus in presence of either geometrical and non geometrical fluxes. In order to obtain an SUGRA effective action with N=1, D=4 further ingredients as orientifold planes are also implemented. Finally the inflation potential is constructed using the Bianchi constrains for the quantized fluxes and the scalar potential of the effective action.

Summary

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