Contribution ID : **75** Type : **Oral contribution**

On Moduli Stabilization and de Sitter Vacua in MSSM Heterotic Orbifolds

Monday, 8 November 2010 18:45 (0:45)

Abstract content

We study the problem of moduli stabilization in explicit heterotic orbifold compactifications with the exact spectrum of the MSSM. Considering all perturbative and nonperturbative contributions to the effective action of the compactification, we show that all bulk moduli directions are lifted. Our analysis reveals that several properties of concrete models are missed when only "generic" features are assumed. We find de Sitter solutions, but –so far– they all turn out to be unstable.

Summary

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Session Classification : Session I ST.FT

Track Classification : String theory and field theory