Contribution ID: 26 Type: not specified

Stability of multibrane models

Tuesday 29 October 2024 17:40 (30 minutes)

5D model with two orbifold 3-branes was originally proposed to address the hierarchy problem. The distance between the branes is usually stabilized via the Goldberger-Wise mechanism. Stability of this construction is related to a 4D scalar mode called the radion. Many different modifications of the simplest set-up have been considered in different contexts. In some models more 3-branes are present in addition to the pair of orbifold branes. Stability of such models was not discussed in much detail. It this talk I will present exact necessary and sufficient conditions for stability of 5D multibrane models with Goldberger-Wise scalar. I will discuss also properties of the corresponding radion(s).

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