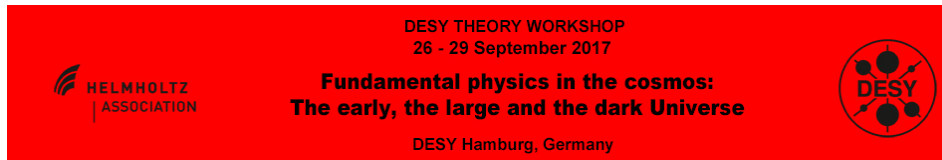


Fundamental physics in the cosmos: The early, the large and the dark Universe



Contribution ID: 50

Type: **not specified**

Warped Relaxion

Thursday 28 September 2017 17:13 (17 minutes)

The relaxion idea is a new alternative to justify the smallness of the Higgs mass. In this framework, the effective Higgs mass is scanned by a scalar field (the relaxion) starting at some large value which slowly decreases during inflation. We propose a UV completion for this mechanism in the context of warped extra dimension scenarios. In our construction, the warp factor can naturally explain the large hierarchy between the decay constants in the relaxion potential.

Primary author: FONSECA, Nayara (DESY)

Presenter: FONSECA, Nayara (DESY)

Session Classification: Parallel Session: Particle Phenomenology 1b

Track Classification: Particle Phenomenology