

The naturally light dilaton

Tuesday 21 May 2013 15:00 (25 minutes)

The Goldstone theorem does not apply straightforwardly to the case of spontaneously broken spacetime symmetries such as dilatation invariance. We elucidate under which conditions a light scalar degree of freedom, identifiable with the dilaton, can naturally arise in a field theory. Our construction can be considered as an example of an explicit dynamical solution to the Cosmological Constant problem in the scalar version of gravity. Note added: it is NOT about interpreting the Higgs boson as a dilaton/impostor.

Presenter: LODONE, Paolo

Session Classification: Parallel Session on Formal BSM