Contribution ID : **92** Type : **not specified**

Gauge-Higgs unification in warped geometries

Thursday, 9 October 2008 17:15 (0:45)

Abstract content

It is well known that the Higgs sector is still a lacking piece of the Standard Model. This sector governs the electroweak symmetry breaking and gives masses of quarks and leptons. Furthermore, the quadratic divergent correction to the Higgs mass strongly suggest the existence of new physics at the TeV scale. For this purpose, a lot of scenarios beyond the Standard Model have been proposed. In this talk we shall focus on some recent results obtained in the context of the so-called gauge-Higgs unification scenarios, in which the Higgs fields may originate from extra components of higher dimensional gauge fields. We shall discuss examples with both possible type of extra dimensions, flat and warped.

Summary

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Session Classification : Beyond SM