



Contribution ID: 132

Type: **not specified**

Evolution of coupling constants in SU(6) Gauge-Higgs Grand Unification

Monday 25 July 2022 14:36 (18 minutes)

Gauge-Higgs Grand Unification Theories (GHGUTs) offer an interesting direction to solve some of the open questions of the SM, like the Hierarchy Problem and the Flavor Puzzle. Moreover, they allow for the unification of the gauge symmetries and their breaking sector. In this talk we discuss the evolution of coupling constants in GHGUTs, specifically a recently proposed minimal SU(6) warped GHGUT, with the goal of unification of the three SM couplings. Differences to ordinary 4D calculations are discussed and it is shown that the running of coupling constants is similar to the original Georgi-Glashow SU(5) model.

Authors: BALLY, Andreas (Max-Planck-Institut für Kernphysik); ANGELESCU, Andrei (Max-Planck-Institut für Kernphysik, Heidelberg); GOERTZ, Florian (Max-Planck-Institut fuer Kernphysik, Heidelberg, Germany); WEBER, Sascha (Max-Planck-Institut für Kernphysik)

Presenter: WEBER, Sascha (Max-Planck-Institut für Kernphysik)

Session Classification: Parallel Session C

Track Classification: Particle Physics