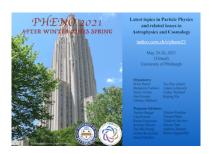
Phenomenology 2021 Symposium



Contribution ID: 1207 Type: BSM

Viable Full Unification of the Standard Model into E_8

Wednesday 26 May 2021 17:30 (15 minutes)

A 10 dimensional model with $\mathcal{N}=1$ SUSY and E_8 as a gauge group will be presented. It will be shown that through the orbifold $T^6/(Z_3\times Z_3)$, only the Standard Model remains after compactification, with feasible Yukawa couplings. Gauge coupling unification can be achieved at $M_{GUT}=10^7 GeV$ with a viable proton lifetime. Therefore the highly predictive extra dimensional GUT model can be within reach of near future experiments.

Summary

Primary authors: J. DE ANDA N., Francisco; MORAIS, António; ARANDA, Alfredo; PASECHNIK, Ro-

man

Presenter: J. DE ANDA N., Francisco **Session Classification:** BSM VI