

Phenomenology 2021 Symposium



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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

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