

Supersymmetry and Lorentz Violation in 5D.

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Abstract content

We present a study for a Supersymmetric field theory with Lorentz-Violation terms in 5D. We perform the analysis in the context of the Berger-Kostelecky model (BK), adding one compactified dimension. This compactified dimension breaks explicitly the Lorentz invariance, however we introduce terms that code this breaking as in Berger-Kostelecky work, and find non trivial restrictions over boundary conditions of fields that one needed to close the supersymmetric algebra.

Summary

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