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## The Lorentz violation in a 5D susy model.

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### Abstract content

One of the goals of the LHC is the search for the existence of physics Beyond Standar Model, because of that, topics like Supersymmetry (SUSY), Extra Dimensions (XD) and others have taken additional relevance in theoretical research. In this work we present a SUSY model in 5D which does not have lorentz invariance in the extra dimension, and the rupture of this symmetry is given in an explicit way. The preservation of the SUSY features is possible iff its generators are deform in agreement to the form of the breaking terms. Also, we present a possible treatment in the superfield formalism.

### Summary

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