XIII Mexican School of Particles and Fields



Contribution ID : 192

Type : not specified

Supergroup formulation of Plebanski theory of gravity

Wednesday, 8 October 2008 19:00 (2:00)

Abstract content

Summary

Gravitation can be formulated as a SU(2) BF-theory with constraints, as shown by Plebanski in 1977. We give an extension of this theory, with an action invariant under the supergroup Sp(2,1). In order to get a consistent Sp(2,1) version, the constraints must be properly generalized. We found as expected, that the resulting theory is N=1 supergravity.

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