Contribution ID: 24 Type: Oral presentation

Cartan's Supersymmetry and the Universe

Monday, 26 October 2015 15:42 (17 minutes)

Cartan has proposed a model of number systems given by octonions and a pair of 4 dimensional vector system. Octonions contains 2 quaternions or a pair of Dirac particles

and by the transformation G_{23} , particle-antiparticle transformation occurs, and by the transformations G_{12},G_{123},G_{13} and G_{132} , supersymmetric transformation occur.

We extend the model to the system in which quark, leptons, gauge fields and Higgs particles are interacting, and the construct a picture of the universe.

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Session Classification: Dark Matter

Track Classification: Dark matter: Physics and Cosmology