XIII Mexican Workshop on Particles and Fields



Contribution ID : 22

Type : Poster

Top Flavor Changing Neutral Currents decay t -> c I(+)I(-) in Generic Z' and Left-Right symmetric models

Abstract content

We study the rare top decay t -> c l(+)l(-), which involves flavor violation, as a possible probe of new physics. This decay is analyzed with the simplest Standard Model (SM) extensions with additional gauge symmetry and the effective lagrangian formalism. The considered extensions are generic Z' model and left-right model, which include a new neutral gauge boson that allows to obtain the decay at tree level. We find that BR(t -> c l(+)l(-)) for 300 GeV<MZ'< 1 TeV can be of order from 10^{-11} to 10^{-11} to 10^{-11} to 10^{-13} in generic Z' model or in left-right model, respectively.

Summary

Primary author(s): Dr. GAITAN, Ricardo (FES-Cuautitlan UNAM)

Co-author(s) : Dr. JOSE HALIM, Montes de Oca (FES-Cuautitlan UNAM); Dr. LORENZO, Díaz Cruz (FCFM-BUAP)

Presenter(s) : Dr. GAITAN, Ricardo (FES-Cuautitlan UNAM)

Session Classification : Astroparticles, Cosmology, Strings and Beyond the Standard Model

Track Classification : Astroparticles, Cosmology, Strings and Beyond the Standard Model