

UM Physics Department

Miami 2020 Physics Conference (Online)

Name: Don Colladay

Title: Propagation of Fermions in Torsion Backgrounds

Abstract:

Spontaneous Lorentz violation is capable of inducing background vector fields that can mimic the effects of torsion fields present in a generic Riemann-Cartan spacetime. I will discuss this interpretation in terms of the holonomy of the vierbein frame choices as they relate to the fermion trajectories.