



Contribution ID: 143

Type: **not specified**

Constraining Lorentz Violation with IceCube High Energy Neutrino Data

Wednesday, 13 July 2016 11:40 (20 minutes)

The Lorentz violation effects on the flavor transitions of high energy astrophysical neutrinos are studied. We show that stringent constraints on the Lorentz violation parameters can be derived from recent IceCube flavor ratio measurement on astrophysical neutrinos with energies between 25 TeV and 2.8 PeV. We present our results with both analytical approximations and full numerical calculations.

Summary

Primary author: LAI, Wei-Hao (National Chiao-Tung University)

Co-author: LIN, Guey-Lin (National Chiao-Tung University)

Presenter: LAI, Wei-Hao (National Chiao-Tung University)

Session Classification: Parallel I

Track Classification: Neutrino Physics