Contribution ID: **27** Type: **not specified**

Lorentz invariance violation sensitivity in T2HK experiment

The Lorentz invariance violation (LV) arises at Planck scale, as a consequence of merging standard model and gravity. Though LV effects are naturally highly supressed at low energy, possible measurable effects are predicted in sensitive channels as neutrino oscillations. In this channel, LV operates both by modifying the PMNS oscillations at far detector, but also predicting new oscillations at short distance.

Because of its very high statistics, we focused in this talk on the INGRID near detector. Using the high

Primary author: Mr QUILAIN, Benjamin (Ecole Polytechnique, Laboratoire Leprince-Ringuet, In2p3)

Presenter: Mr QUILAIN, Benjamin (Ecole Polytechnique, Laboratoire Leprince-Ringuet, In2p3)