



Contribution ID: 117

Type: **Poster session**

Implications on the UV from neutrino non-standard interactions in the EFT approach

The absence of any definite signals of new physics at colliders and/or from precision measurements has gradually changed our method in searching for new physics: from specific UV models to a model-independent study in the EFT framework. In light of the rich data from current terrestrial neutrino oscillation experiments and the precision measurements of Neff now and in the near future, in this talk, I will present our recent work on neutrino non-standard interactions and also discuss their implications on the UV physics in a model-independent approach. The talk is based on the following two references:

[1] For the oscillation part: [https://doi.org/10.1007/JHEP03\(2021\)019](https://doi.org/10.1007/JHEP03(2021)019)

[2] For the Neff part: <https://arxiv.org/abs/2101.10475>

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Session Classification: Neutrino Physics Session 2

Track Classification: Neutrino Physics