



Contribution ID: 138

Type: **Poster session**

## Generalized New Interactions from Simplified Model with $CE\nu NS$

In this work, we investigate the effect of general neutrino interactions from a simplified model on the Coherent Elastic Neutrino Nucleus Scattering ( $CE\nu NS$ ) framework. All the possible invariant bilinear combinations of current; scalar, pseudoscalar, vectorial, axial-vector, and tensorial are considered. We implement the prediction of the  $CE\nu NS$  process including the considered new interactions in the low energy scale. The constraint of masses and couplings from the model are given for 90% CL with COHERENT data.

**Primary authors:** Prof. DEMIRCI, Mehmet (Karadeniz Technical University); Mr MUSTAMIN, Muhammad Fauzi (Karadeniz Technical University)

**Presenters:** Prof. DEMIRCI, Mehmet (Karadeniz Technical University); Mr MUSTAMIN, Muhammad Fauzi (Karadeniz Technical University)

**Session Classification:** Neutrino Physics Session 2

**Track Classification:** Neutrino Physics