The 28th International Workshop on Weak Interactions and Neutrinos (WIN2021)



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 ν 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 CEvNS 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.

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Session Classification: Neutrino Physics Session 2

Track Classification: Neutrino Physics