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Generalized New Interactions from Simplified Model with CEνNS

In this work, we investigate the effect of general neutrino interactions from a simplified model on the Coherent Elastic Neutrino Nucleus Scattering (CEνNS) 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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