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Exploring Non Standard Physics in Long-Baseline Neutrino Oscillation Experiments

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After the recent discovery of large θ_{13} , the focus has been shifted to address the remaining fundamental issues like neutrino mass ordering and CP-violation in leptonic sector. Future proposed Long-Baseline facilities like DUNE (1300 km baseline from FNAL to Homestake) and LBNO (2290 km baseline from CERN to Pyhasalmi) are well suited to address these issues at high confidence level. Not only to the standard framework, these experiments are highly capable to look for some new physics beyond the Standard Model scenario. In this work, we explore whether these high precision future facilities are sensitives to new U(1) global symmetries and upto which confidence level.

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