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New sources of leptonic CP violation at the long baseline experiments

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Neutrino Oscillations have been confirmed in the last twenty years by a large amount of data and we are now entering in the precision era, when oscillation parameters are going to be determined with a great accuracy. However, current measurements still cannot exclude new physics scenarios like the presence of sterile neutrinos or Non Standard Interactions. We explore the capability of future long baseline experiments like DUNE to search for new sources of CP violation looking at the CP asymmetries of different oscillation channels. The accessibility of such measurements together with the large amount of oscillation data could in principle provide a simple but powerful method to seek for new physics effects.

Working group

WG5

Primary authors: GIARNETTI, Alessio (Roma Tre University & INFN); MELONI, Davide (University of Roma Tre)

Presenter: GIARNETTI, Alessio (Roma Tre University & INFN)

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