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Exploring the leptonic CP-violation in the presence of a light sterile neutrino

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Determining the leptonic CP-violation is one of the main objectives of the neutrino oscillation experiments. Long-baseline (LBL) experiments are expected to play a crucial role in this direction. Two LBL experiments T2K and NO ν A are already playing a leading role in addressing this issue. Apart from this, a few highly sophisticated LBL experiments like DUNE, T2HK, and ESS have also been planned to address this issue as well as the remaining unknown issues. In this talk, I will explore the current status and future prospects of discovering the leptonic CP-violation in the current and future LBL experiments in presence of an eV-scale light sterile neutrino.

Collaboration name

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