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Exploring light sterile neutrinos at LBL experiments

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One of the hottest topics in present-day neutrino physics is provided by the hints of sterile species coming from the short-baseline (SBL) anomalies. Waiting for a definitive (dis-)confirmation of these indications by future SBL experiments, other complementary avenues can be explored in the hunt of such elusive particles. An important opportunity is that offered by the long-baseline (LBL) experiments which, as I will show, are sensitive to the new sources of CP-violation involved in the 4-flavor scheme. I will point out that the experiments NOvA and T2K already provide the first indications on one of the new CP-phases. I will also describe how the future LBL experiments DUNE, T2HK and ESSnuSB will be able to pin down the new CPV sector.

Collaboration name

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