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Experimental Neutrino CP violation searches

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The measurement of a relatively large θ_{13} angle has opened the possibility to study CP violation phenomena in the leptonic sector, related to the phase δ of the PMNS neutrino mixing matrix.

Today, the current generation of long baseline experiments with T2K and Nova has started probing this sector, with interesting first indications that will be followed by more precise measurements in the next years. Both T2K and Nova have presented sensitive measurements of oscillations with both neutrino and antineutrino samples.

In the meantime, a new generation of experiments is in preparation, DUNE in USA and Hyper-Kamiokande in Japan. They will provide precision measurements in this sector starting in 2026.

Content of the contribution

Experiment

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