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Neutrino oscillations: challenges and perspectives from an experimentalist point of view

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Since the discovery of neutrino oscillations at the end of the 20th centuries, experiments studying the have reached a number of milestones and measured most of the parameters of the standard 3 flavor oscillation model with increasing precision. Experiments are now trying to address the remaining open questions (CP symmetry in oscillations and neutrino mass ordering in particular) which require measuring more subtle variations in the oscillation patterns. In this presentation, we will look at some of the specific challenges faced by these experiments and ideas proposed to address them, as well as perspectives in terms of both measuring parameters of the model, and testing the standard oscillation framework in search of new physics.

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