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Neutrino oscillations in perspective, what do we know?

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Neutrino oscillations are one of the few physical evidences beyond the standard model. From Pontecorvo's idea of representing neutrinos as a linear combination of mass states, we want to review the formalism of neutrino oscillations in the image of the three known flavors to date.

With the confirmation of the oscillations, we're searching to describe the phenomenon of the neutrino oscillation of the mixing matrix PMNS, its role in the expressions of the (anti) neutrino state and the value of the oscillation parameters observed in the most important experiments.

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