

Neutrino Oscillations –current status and prospects –

Monday, 14 June 2021 17:20 (40 minutes)

Since the discovery of neutrino oscillation in 1998, an overall picture of the flavor-mass mixing in the lepton sector has been build. Compared to those in the quark sector, the mixing angles are large and squared masses are much smaller. Missing in the picture is the CP phase and the ordering of masses. With the large mixing angles, the size of the CP violation, Jarlskog invariant, in the lepton sector can be three orders of magnitude larger than that in the quark sector. Large CP violation in the lepton sector may be a source of the present matter-antimatter asymmetry in our universe. In this talk, I will present the latest status and prospect of the neutrino oscillation measurements. In particular, searches for CP violation by accelerator long baseline experiments will be discussed in detail.

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Session Classification: Plenary 2