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Neutrino physics with accelerator, reactor and astrophysical neutrinos

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There have been impressive progresses in the neutrino physics in the last two decades, including established three-flavor oscillation framework. An excitement has arised from a possibility in understanding the mystery of matter and anti-matter asymmetry in the Universe. Upcoming long-baseline experiments under construction will likely determine a CP violating phase due to a surprisingly large neutrino mixing-angle value of θ13. Precision measurements of the neutrino oscillation parameters, better than 1%, will be possible by a medium-baseline reactor experiment and atmospheric measurements so that the unitarity of neutrino mixing angles can be presumably tested. In this talk, the current status of neutrino physics will be reviewed and a future prospect will be discussed, particularly associated with observation of accelerator, reactor and astrophysical neutrinos.

Collaboration (if any)

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