

T2K neutrino and anti-neutrino oscillation results

T2K is a long-baseline neutrino oscillation experiment sited in Japan, consisting of three main components: the JPARC proton accelerator facility that provides a beam of mainly muon neutrinos; a suite of near detectors, INGRID and ND280, that characterize the neutrino beam prior to oscillations; and Super-Kamiokande that acts as the T2K far detector. The far detector beam information is compared with that from the near detector in order to determine the neutrino oscillation parameters. Importantly, T2K also has sensitivity to CP violation via its predicted effect on neutrino vs antineutrino oscillations. T2K has recently increased its data set significantly, allowing for new statements on CP violation in the lepton sector. The latest results will be presented in this talk.

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