Contribution ID: 50 Type: not specified

Evidence for leptonic CP phase from NOVA, T2K and ICAL

The phenomenon of neutrino oscillation is now well understood from the solar, atmospheric, reactor and accelerator neutrino experiments. This oscillation is characterized by a unitary PMNS matrix which is parametrized by three mixing angles and one phase known as the leptonic CP phase. Though there are already significant amount of information about the three mixing angles but the CP phase is still unknown. The long baseline experiments(LBL) have CP sensitivity coming from the appearance channel but atmospheric neutrinos known to have negligible CP sensitivity. In my presentation I will describe the synergy between the LBL experiment NOVA, T2K and the atmospheric neutrino experiment ICAL@INO for obtaining the first hint of CP violation in the lepton sector.

WG3: Accelerator Physics (Yes/No)

No

WG2: Neutrino Scattering Physics (Yes/No)

No

WG4: Muon Physics (Yes/No)

No

WG1: Neutrino Oscillation Physics (Yes/No)

Yes

Type of presentation

Poster

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