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TALK: CP - Violation with Neutrino Disappearance

Monday, July 8, 2024 9:15 AM (45 minutes)

The best way to probe CP violation in the lepton sector is with long-baseline accelerator neutrino experiments in the appearance mode: the appearance of ν_e in predominantly ν_μ beams. Here we show that it is possible to discover CP violation with disappearance experiments only, by combining JUNO for electron neutrinos and DUNE or Hyper-Kamiokande for muon neutrinos. While the maximum sensitivity to discover CP is quite modest (1.6σ with 6 years of JUNO and 13 years of DUNE), some values of δ may be disfavored by $>3\sigma$ depending on the true value of δ .

Presenter: DENTON, Peter (Brookhaven National Laboratory)