ID de Contribution: **80** Type: **Ordinary**

New results on CP from T2K

vendredi 24 mars 2017 08:50 (15 minutes)

T2K (Tokai-to-Kamioka) is the accelerator-based long base-line neutrino experiment that measures the probabilities of flavor change of neutrino beam during 295km flight. The high intensity muon-neutrino beam that generated using J-PARC (Japan Proton Accelerator Research Complex) accelerator is detected by Super Kamiokande, 50 kt water Cherenkov detector that can distinguish electron-neutrinos and muon-neutrinos. T2K searches the CP violation phenomena in the lepton sector by measuring the electron-neutrino (anti-electron-neutrino) appearance using muon-neutrino beam and anti-muon-neutrino beam, respectively. We report the results of CP violation search and the precise measurements of muon-neutrino disappearance by analyzing the data produced by 1.5×1021 POT (Protons-on-target).

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Classification de Session: Neutrinos & Astroparticles

Classification de thématique: Experiment