

Overview of the T2K long baseline neutrino oscillation experiment

Monday 27 July 2009 18:10 (15 minutes)

Neutrino oscillations were discovered in solar and atmospheric neutrinos experiments, and have been confirmed by experiments using neutrino beams from accelerators and nuclear reactors. It has been found that there are large mixing angles in the ν_e to ν_μ and ν_μ to ν_τ oscillations. The third mixing angle, which parameterizes the mixing between the first and the third family, is constrained to be small by the CHOOZ experiment results. The T2K experiment is a long baseline neutrino oscillation experiment that uses intense neutrino beam produced at J-PARC and SuperKamiokande detector 295km as the far detector. In this talk, we will give an overview of the experiment.

Author: Mr LE, TRUNG (STONY BROOK UNIVERSITY)

Presenter: Mr LE, TRUNG (STONY BROOK UNIVERSITY)

Session Classification: Neutrino Physics I

Track Classification: Neutrino Physics