

Latest results from T2K

Tuesday, 23 October 2018 17:55 (15)

T2K is a long-baseline neutrino oscillation experiment based in Japan. A muon neutrino (or antineutrino) beam is produced at JPARC and sent 295 km to the Super-Kamiokande detector where neutrino oscillation is studied via muon neutrino disappearance and electron neutrino appearance channels. Such studies have demonstrated muon neutrino to electron neutrino oscillation and provide precision measurements of the muon neutrino and antineutrino disappearance parameters, acting as a probe of unknown physics, including the potential to observe CP violation in neutrino mixing. In this talk, we will present our latest neutrino and antineutrino oscillation results and also present the future prospects of the experiment.

Primary author(s) : CHAPPELL, Andy (University of Warwick)

Presenter(s) : CHAPPELL, Andy (University of Warwick)

Session Classification : Particle Physics: Neutrino Physics

Track Classification : Particle physics: neutrino physics