Contribution ID: **1289** Type: **Invited Speaker / Conférencier invité**

T2K

Wednesday 15 June 2016 13:15 (30 minutes)

T2K is a accelerator-based neutrino oscillation experiment operating in Japan, sending a muon (anti)neutrino beam produced at J-PARC to the Super-Kamiokande detector 295 km away. The neutrino oscillation process along the way, which results in some fraction of these muon neutrinos being detected as neutrinos of different flavors. T2K has reached several important milestones recently, including the definitive observation of muon neutrino to electron neutrino oscillation, the most precise measurement of the muon neutrino disappearance parameters, a joint analysis of these two modes towards the first constraint on the CP violating phase delta, and the first results from the experiment using an antineutrino beam. In this talk, we will report on the latest results from T2K and discuss the future prospects for T2K and beyond, including Hyper-Kamiokande

Author: JAMIESON, Blair (University of Winnipeg)

Presenter: JAMIESON, Blair (University of Winnipeg)

Session Classification: W2-4 Neutrino Physics (PPD-DNP-DTP) / Physique des neutrinos (PPD-DPN-DPT)

Track Classification: Particle Physics / Physique des particules (PPD)