Contribution ID: 56 Type: Invited talk

## Long-baseline neutrino oscillations

Wednesday 26 July 2017 09:35 (30 minutes)

Long-baseline neutrino experiments use neutrino beams produced at accelerators to study the oscillation of neutrino flavours as they traverse hundreds of kilometers between the primary beam target and a far detector. Current long-baseline experiments have the world's best sensitivity to the neutrino mixing angle theta\_23 and the mass splitting dm²\_32. They additionally provide the only available data about the complex phase of the PMNS matrix that is a source of CP violation in the neutrino sector. In this review talk I will examine the methodology and results from long-baseline experiments and discuss future prospects.

Author: Prof. OSER, Scott (University of British Columbia)

**Presenter:** Prof. OSER, Scott (University of British Columbia) **Session Classification:** Long Baseline Neutrinos Present

Track Classification: Neutrinos