

## Neutrino Oscillation Results from the T2K Experiment

*Wednesday, 30 May 2018 16:40 (30 minutes)*

T2K is a long baseline neutrino oscillation experiment making use of Super-Kamiokande as its off-axis far detector that has been taking data since 2010. The results of the oscillation analysis with five far detector samples, including data taken up to May 2017 with a total of  $14.7 \times 10^{20}$  POT accumulated in neutrino-mode and  $7.6 \times 10^{20}$  POT in anti-neutrino mode, will be presented. In particular, these results have been produced with a new reconstruction algorithm for Super-Kamiokande, including re-optimized far detector event selections and expanded fiducial volume, with an effective statistical improvement of 30% compared to previous analyses.

### E-mail

crstovao.vilela@stonybrook.edu

### Collaboration name

T2K Collaboration

**Primary author:** VILELA, Cristovao (Stony Brook University)

**Presenter:** VILELA, Cristovao (Stony Brook University)

**Session Classification:** Neutrino Masses and Neutrino Mixing

**Track Classification:** NMNM