

Neutrino Oscillation Results from the T2K Experiment

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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 14.7×10^{20} POT accumulated in neutrino-mode and 7.6×10^{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.

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Collaboration name

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