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T2K's MaCh3 Oscillation Analysis

The T2K long-baseline neutrino experiment has three independent analyses that aim to extract neutrino oscillation parameters from the experiment's near- and far-detector data. These analyses have recently been updated to include both significant improvements to the neutrino flux and interaction models as well as 24% more neutrino-mode data. While each analysis fits the same data to the same model, they differ in their statistical and technical approaches. One of these analyses, MaCh3, is unique in its application of a Markov Chain Monte Carlo technique to conduct a Bayesian fit of the model to the data. This poster will describe T2K's oscillation analysis broadly as well as technical aspects of the MaCh3 analysis.

Mini-abstract

T2K updates neutrino oscillation measurements

Experiment/Collaboration

T2K

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