

## Inclusion of Daya Bay results to constrain neutrino oscillation parameters in T2K analyses

The Tokai to Kamioka (T2K) experiment is a long baseline neutrino experiment in Japan which aims to measure neutrino oscillation parameters and perform a search for CP violation in the lepton sector. One of the analysis packages used to perform the neutrino oscillation fits in T2K is the Bayesian MaCh3 Markov Chain Monte Carlo package. As part of this package, external constraints can be used as inputs. In this poster, I will show how two-dimensional parameters released by the Daya Bay Collaboration correlating  $\theta_{13}$  and  $\Delta m_{32}^2$ , depending on the mass ordering, can be used to potentially improve the constraints on the neutrino oscillation fit parameters from the Bayesian posterior distributions.

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