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## Muon neutrino disappearance at T2K

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T2K is an off-axis long-baseline neutrino experiment, using the J-PARC muon-neutrino beam to look for muon-neutrino disappearance (to measure  $\theta_{23}$  and  $\Delta m_{32}^2$ ) and electron-neutrino appearance (to measure  $\theta_{13}$ ). Super-Kamiokande, a 22.5 kton fiducial water Cerenkov detector located 295 km from the neutrino source, is used as the far detector. I report the result of the muon-neutrino disappearance search, using data up to summer 2012. The best-fit value of the oscillation parameters gives  $|\Delta m_{32}^2| = 2.44 \times 10^{-3} eV^2$  and  $\sin^2 2\theta_{23} = 1.00$ , and the 90% C.L. exclusion region is competitive with other experiments.

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