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## Electron Neutrino Appearance Analysis at T2K

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T2K is a long baseline neutrino beam experiment scheduled to begin operation in 2009. The energy of the muon neutrino beam from JPARC and the distance (295 km) to the far detector (Super-Kamiokande) have been chosen to maximize sensitivity to electron neutrino appearance through neutrino oscillation. By identifying this oscillation signal from among backgrounds, including NC  $\pi^0$  production, a limit or measurement on  $\theta_{13}$  can be made.

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