

Electron neutrino detection in the T2K off-axis near detector

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T2K is an off-axis long baseline neutrino oscillation experiment, optimised to measure θ_{13} and δ_{cp} , using a muon neutrino beam. The best mode of flavour transformation for this is to look for electron neutrino appearance, and the dominant background for such measurements is the intrinsic electron neutrino component in the beam itself. I will discuss the work being done at, and present recent results from, the off-axis near detector (ND280) to detect charged current electron neutrino interactions and construct cross-section measurements.

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