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The T2K Neutrino Experiment and the ND280 Near Detector

NAGESH KULKARNI, Louisiana State University, T2K ND280 COLLABORATION — The T2K long-baseline neutrino oscillation experiment will search for evidence of neutrino flavor change over a distance of 295 km in a high-intensity muon neutrino beam. The primary goal of the T2K experiment is to measure the neutrino mixing parameter θ_{13} . The near detector is located at 280 meters from proton target at the J-PARC facility in Tokai-mura, Japan, and has already started collecting cosmic ray data. This talk describes the T2K experiment and the aspects of the near detector complex.

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