



Contribution ID: 267

Type: Talk

【363】 Latest results on cross-section measurement at T2K near detector

Thursday 29 August 2019 17:30 (15 minutes)

A precise characterization of neutrino oscillation parameters is very important to search for physics beyond the standard model. T2K, located in Japan, is one of the leading long-baseline neutrino oscillation experiments. It measures a muon (anti-)neutrino flux, with energy peaked at ~ 0.6 GeV, produced at the J-PARC facility 295 kilometers east of the SuperK far detector. One of the most important limiting factors to precise oscillation measurements are the systematic uncertainties on the neutrino-nucleus interactions. A near detector, ND280, located at 280 meters, is used to constrain the flux of the beam and gain better understanding of the nuclear effects which are poorly understood. We will present the latest techniques and results from cross-section measurements at the near detector.

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Session Classification: Nuclear, Particle- & Astrophysics

Track Classification: Nuclear, Particle- and Astrophysics (TASK)