EPS-HEP2019



Contribution ID: 756

Type: Parallel talk

Neutrino-Nucleus Interaction Cross-Section Measurements at T2K

Saturday 13 July 2019 11:30 (25 minutes)

A detailed understanding of neutrino(v)-nucleus interactions is essential for the precise measurement of neutrino oscillations at long baseline experiments, such as T2K. The T2K ND complex, designed to constrain the T2K flux and cross section models, also provides a complementary program of neutrino interaction crosssection measurements. Given the neutrino energy range of the T2K flux, the T2K near detector is in a unique position to make precision measurements of CC0pi processes. Combining multiple CC0pi samples into a single analysis produces relatively high-precision results that can validate new cross-section models and resolve modelling ambiguities. This strategy, which is vital for the future of the field, and recent results will be presented.

Author:CHRISTODOULOU, Georgios (CERN)Presenter:CHRISTODOULOU, Georgios (CERN)Session Classification:Neutrino Physics

Track Classification: Neutrino Physics