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Measurements at the T2K near detector

The near detector complex of T2K consists of a set of scintillating tracking detectors spanning the beam axis (INGRID) along with a magnetized detector system with fine-grained tracking and calorimetry (ND280). Together, ND280 and INGRID offer unique opportunities for the study of ~ 1 GeV neutrino interactions, including the possibility to study the energy dependence of the cross section using the varying energy spectrum resulting from detectors spanning different off-axis angles, and precise kinematic reconstruction and particle identification with which neutrino interactions can be studied in detail. We report new studies of charged-current muon neutrino interactions in both INGRID and ND280 in final states with zero or one pion, including coherent scattering leading to pion production, and measurements of the inclusive cross section.

additional information

I am submitting this as Chair of the T2K Speakers Board. Abstracts selected as talks will have speakers allocated according to T2K collaboration procedure.

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