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New measurements of neutrino-nucleus interactions in T2K

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The T2K long-baseline neutrino experiment has new neutrino cross-section measurements. In addition to being interesting in their own right, measuring neutrino cross sections is vital as they correspond to a major systematic uncertainty for neutrino oscillation analyses. In particular, the new results focus on exploiting the water targets

in the T2K off-axis near detector, ND280, updating our charged-current measurements with a wider phase space, addressing in more detail the neutrino interaction vertex, and other new measurements. This talk will give an overview of the T2K neutrino cross-section measurements, focusing on the latest results.

Experimental Collaboration

T2K

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