Measurement of the muon-neutrino charged-current cross section on water with zero pions in the final state





Tracker-going requirement \rightarrow low efficiency in high-angle, low-momentum regions

Tracker is needed to ensure accurate momentum reconstruction

8. Corrections and systematics

Nominal MC is corrected after production to account for unsimulated effects and

Systematic uncertainties are numerically propagated by tweaking various parameters







12. Conclusions

Overall, result agrees better with a corrected version of the NEUT generator than with GENIE, although there are some discrepancies with both models at the high-angle regions.

Good agreement with T2K's double-differential measurement on carbon *PhysRevD.93.112012*

 $0.700 \leq True-\mu \cos\theta < 0.800$