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Quasi-Elastic Scattering in MINERvA

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MINERvA (Main INjector Experiment for ν -A) has recently measured neutrino and antineutrino quasi-elastic cross-sections on plastic (CH) scintillator. These results will provide insight into neutrino and anti-neutrino cross sections off of nuclear targets which are important for neutrino oscillation experiments and the probing of the nuclear medium. We will focus on these results and how they compare to the predictions of various nuclear models simulated in the GENIE and NuWro generators. In addition we will present results from a similar analysis of charged current quasi-elastic-like interactions where a final state muon and proton have been identified, but where the kinematics of the event are determined by the leading proton rather than the muon.

Summary

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