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# Measurement of electron neutrino CCQE-like cross-section in MINERvA

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The electron-neutrino charged-current quasi-elastic (CCQE) cross-section on nuclei is an important input parameter to appearance-type neutrino oscillation experiments. Current experiments typically work from the muon neutrino cross-section and apply corrections from theoretical arguments to obtain a prediction for the electron neutrino cross-section, but to date there has been no experimental verification of the estimates for this channel at an energy scale appropriate to such experiments. We present a preliminary result from the MINERvA experiment on the first measurement of an exclusive reaction in few-GeV electron neutrino interactions, namely, the cross-section for a CCQE-like process. The result is given both as differential cross-sections vs. the electron energy, electron angle, and $Q^2$, as well as a total cross-section vs. neutrino energy.

## WG3: Accelerator Physics (Yes/No)

No

## WG2: Neutrino Scattering Physics (Yes/No)

Yes

## WG4: Muon Physics (Yes/No)

No

## WG1: Neutrino Oscillation Physics (Yes/No)

No

## Type of presentation

Oral presentation

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**Session Classification:** WG2: Neutrino Scattering Physics