Contribution ID: **9** Type: **not specified**

Quasi-elastic neutrino scattering at MINERvA

Monday, 9 June 2014 14:10 (20 minutes)

Charged-current quasi-elastic (CCQE) scattering from heavy nuclei is an important signal channel for neutrino oscillation experiments. Last year, MINERvA published its first CCQE cross-section distributions. Our results, and those of other experiments, suggest that we do not currently have a complete model that accurately predicts all of the complex interactions occurring within the nucleus. I will show a comparison of our cross-section data with the predictions of various nuclear models, and also explain how calculating a double-differential cross-section will help us to determine which models best match our data.

Primary author: Ms PATRICK, Cheryl (Northwestern University)

Presenter: Ms PATRICK, Cheryl (Northwestern University)

Session Classification: Session 2