Poster session 2 – Tuesday 5 July

P2.077 **Model uncertainties at MicroBooNE**

M Toups[1], M Weber[2], M D Tutto[3] and A Furmanski[4]

[1]Fermi National Accelerator Laboratory, USA, [2]Laboratorium fuer Hochenergiephysik - Universitaet Bern, Switzerland, [3]University of Oxford, UK, [4]University of Manchester, UK

on behalf of MicroBooNE collaboration

MicroBooNE is a liquid argon TPC running in the Booster neutrino beamline at Fermilab, which provides neutrinos with a mean energy of 1 GeV. It is the first of three liquid argon detectors which will form the short baseline neutrino programme at Fermilab. The primary goal of the short baseline programme is to confirm or refute the existence of sterile neutrinos in the region suggested by LSND and MiniBooNE data. The second big physics topic is the study of neutrino interactions on argon in order to provide further understanding of nuclear effects in neutrino scattering. To make conclusive statements in any type of analysis, systematic uncertainties must be well understood and effectively mitigated. This poster will show the current state of systematic uncertainties for an early CC-inclusive cross section measurement.