

3:56 PM – 5:00PM

minute-taker: David Neuffer

Kordosky -Hadron production – mesons created at target – large number of lower energy neutrinos from secondary particles interacting in the target – primary production from NA49 – extension to understanding to include production from secondaries – NA61

Tian – Absolute flux measurements to be done within general detector discussed by Mishra

Christy – Neutrino scattering on H and D – measure flavour and valence/sea parton measurements Charge symmetry violations, weak mixing angle measurement. $d(x)$, $u(x)$ – charge symmetry measured from comparing ν and $\bar{\nu}$ rates. Ideal detector is bubble chamber with muon tagging and calorimetry..

Perdue – Upgrading Minerva – speed up readout by parallel interface card, reduce after pulsing in PMTs by using SiPMs.

Mishra – ID μ , e neutrinos at Project X – High Resolution ν -expt, need to know flux, measure missing p_T , measure π_0 , need light transparent detector within a B-field, calorimetry and μ identification, need ν - e elastic scattering measurement, need external measurement of K/π and measure $\nu_\mu \rightarrow \nu_e$ at 10^{-4}

Taylor – ν scattering narrow band beam- neutrino nucleus scattering measurements: total CCQE cross sections not exactly known. SciNOvA – fine grained SciBar detector before the NovA near detector –test MiniBooNe results on CCQE, and neutral current cross sections $NC\pi_0$ -SciNovA under consideration by NOvA

Kevin Lee – Rare K decay with magnetized Liquid Ar – near detector -50 liter LA prototype ICARUS TPC in 80cm bore 1.5T magnet – use Kaon source from Project X – more design in the future.