Nue Working Group Plans

4th June 2006

MINOS Collaboration Meeting

Tufts University

- All sessions will be in Eaton 202
- Connection information for those who need to dial in: (usual phone meeting number)
  - Phone: 510-883-7860
  - Extension: 88-66-683 (88-MN-NUE) and no PIN

Meeting times

Work Time & Parallel Sessions:

- Monday: Work time   (08.30-10.00)
- Tuesday: Work time   (08.30-10.00)
  Parallel session #1   (13.20-15.20)
- Wednesday: Work time   (08.30-10.00)
- Thursday: Parallel session #2   (08.30-10.00)
  Work time   (13.20-15.20)
- Friday: Plenary session   (90 mins)

Monday Work Time #1

- *Analysis roadmap: initial discussion*
    - Opinions for analysis strategy have been canvased and compiled for discussion – Milind
    - Goal is to ensure we are all on the same page at the beginning of the meeting so that we can leave Boston with a plan of action

Tuesday Work Time #2

- *Data/MC discrepancy discussion*
  - Poor agreement between Data/MC in ND is still not understood
  - Work time will include a review of relevant work:
    - Multiplicity studies – Chris
    - ND data/MC cut study – Mayly
    - Update on ND data/MC studies – Josh
    - 4-vector study - Tingjun
  - Neugen / Intranuke experts encouraged to attend!
  - Aim is to come up with a concrete list of studies to carry out in order to understand and improve agreement

Tuesday Parallel Session #1

- *Pre-selection & Event Selection Topics*
  - Fiducial Volume study – Anna
  - Scanning studies – Rik
  - Scanning selected MC events – Tony
  - pi0s vs PID – Dan
  - Nearest Neighbors on ND – Caius

Wednesday Work Time #3

Several Discussion Topics:

- *Event selection and scanning*
  - Discussion of how to use of scanning efforts in analysis
- *Background estimates from data*
  - Discussion of extrapolation techniques
- *FD Data checks*
  - Defining background data checks

Thursday
Parallel #2 & Work Time #4

Nue Parallel Session #2:

- *Background estimation techniques*
  - Anti neutrino – Pedro/David J.
  - Muon removal in ND – Caius
  - Muon decay study – Mark D.
  - Horn off – Tingjun

- *ND Parallel Session #1 (10:50 - 1:20)*
  - NC & CC Coherent Analyses – Cristian Bungau
  - NC Coherent & Nue Searches – Dan

- *Work Time: Defining road map for first analysis*