Nu-e session

Agenda

- Chris Smith
- T.J. Yang
- Mayly Sanchez
- A. Sousa
- Mock Data Chellenge for Nue - MD

Current State of art

	signal	NC	Mu-CC	Tau-CC	B-nue	S/ sqrt(B)	
714	8.5	27.2	3.9	5.6	3.0	1.35	
mltij48	6.6	30.2	8.8	2.2	7.6	0.94	mayly
MDA	8.0	34.7	15.5	2.8	6.6	1.03	alex
MLP	7.8	45.5	14.5	5.0	2.8	0.95	tommy
BDT	4.3	13.6	3.2	3.0	1.2	0.94	

|Ue3|^2=0.01, for 714 dm^2=0.003, rest 0.0025

MDC nue I

- Signal Extraction strategies:

1. Standard Reconstruction **
2. EM package **
3. Minimum spanning tree (Tricia)
4. New Reco. on raw data
5. Eye scanning *
6. quasielastics only *

** Lot of work, * some work, () no work

II

- Background evaluation techniques

1. Near detector. extrapolate to far. same signal extraction techniques.
2. Pure Monte Carlo.
3. Use CC events from far, but strip out muon to get NC background.
4. Systematic errors: near/far, normalization

III

- Fitting and parameter estimation
- Blind analysis

Unified Statement for data-taking from electron group

- We request quick stabilization of the running conditions for the low energy beam.
- We request maximum possible running time in the low energy beam at the highest intensity.
- We request that any deviation from high intensity low energy beam must be extremely well justified.