INTRODUCTION TO INFRASTRUCTURE

Workshop on Computing for Neutrino Experiments

Why a workshop

- □ 8 neutrino experiments exist or are coming soon...
 - MINOS
 - MiniBoone
 - SciBoone
 - MINER∨A
 - NOvA
 - Argoneut
 - MicroBoone
 - DUSEL

And that no-neutrino experiment mu >e

"BITS is BITS" — my brother-in-law Dave

- Each neutrino experiment has <= 100 users</p>
- These are neutrino experiments
 - Lowish energy → simple events
 - Efficient triggers ← not 99.9% junk like colliders
 - Event rates are 0.2 Hz, not 100 Hz...
 - Reasonably low event sizes
- Many similarities
- □ But some differences....
 - Argon vs Scintillator...

How will we look to the people we work with?

An impressive program?

2009 Superbowl

Many gnats....



2007 AL Playoffs

First step

- Lee Luekingappointed NeutrinoLiaison for CD
- Johns Hopkins Thesis:
 "a Long Baseline
 Search for Neutrino
 Flavor Oscillations"
- E790, D0, CMS and now back home with the neutrino.



Purpose of the Infrastructure Session

- Experiments will give talks about their infrastructure
 existing and needed
- Common template has been provided so that some comparisons can be made..
- Then CD people will discuss the services that are available.
- Try to identify areas where we can invent the wheel once (or twice) and reuse it.
- Lee will sum up with information on how to set up a Memorandum of Understanding...

Should be interesting

 MINERvA - bottoms up calculation of computing needs yields CPU estimate for user analysis

MINOS - real experience indicates that MINERvA number is way way too low.

Conclusion:

Take estimates with a truckload of salt.



Heidi Schellman - Introduction