PHYS 5391 – Section 507

Monday, May 28, 2002
Jaehoon Yu

1. Basic Information
2. Session Organization
3. Goals in these sessions

Information & Communication Source

- All information on agenda of each session and any reading assignment will be posted on my web page: http://www-hep.uta.edu/~yu
- Session time slot and room:
  - 12:30 – 3:00pm, Mondays, Rm 200
  - 11 week course during the summer ➔ Continued beyond the summer, as group meetings
- Sessions are organized in seminar format
  - One or two featured speakers
    - Mixture of Students, postdocs, and faculty
    - Slides must be prepared in electronic form for FNAL folks prior to the session
  - 5 minutes progress report and plan from each student
- Have office hours, in case you need to talk
  - 3:00pm - 5:00pm Mondays
  - 10:30 - 12:00pm Tuesdays

The goals

- Necessary to keep up with what is happening within the group
  - Students, postdocs, and faculty need to exchange ideas and information
  - Students need guide through their analyses and other tasks
  - To keep up with what is happening in the field
- Understand various techniques in HEP
  - Highly technical but needed for HEP people
  - Exposed to HEP techniques early on for familiarity
  - Learn how some analyses are done
  - Learn various tools exist for HEP tasks
  - Learn specific techniques in DØ analyses
  - Learn what is involved in HEP analyses
  - Learn how some detectors work

Topics to Cover

- Detector Techniques
  - Photo-detectors and PMTs
  - DØ
  - ATLAS
  - Digital Hadron Calorimeters
- Simulation of Physical Processes
  - Simulation Tools
  - DØ detector simulation
- Computing Techniques
  - Data Reconstruction
  - Data Sharing
  - Grid Application
- Physics Concept
  - Standard Model Processes
  - Supersymmetric Processes
- Analysis Tools
  - root
  - DØ SAM projects
- Physics Analysis Techniques