

Day Four of the  
7<sup>th</sup> Annual Fermilab/CERN Hadron Collider Physics  
Summer School

# Today's Agenda

Thursday
August 09
<b>BUS TO FERMILAB</b>
10:10 a.m. West.
ELECTROWEAK 4 9:10-10:25 a.m.
m.
STATISTICS 2 10:45 a.m.-12:00 p.m.
Lunch 12:00-1:30 p.m.

BSM 4 1:30-2:45 p.m.
QCD 1 2:45-4:00 p.m.
Coffee & PHOTO 4:00-4:20 p.m.
Discussion 3 4:20-5:35 p.m.
BUS TO HOTEL 5:45 p.m.

Thursday
August 09
1 West Discussion 3A 4:20-5:30 p.m. Statistics and Electroweak
Junk & Dawson
Curia II
Discussion 3B 4:20-5:30 p.m. QCD and Tracking
Petriello & Korytov

- Last Electroweak and BSM lectures – ask questions!
- Continuing Statistics and starting QCD
- 4:00pm – School photo in front of Wilson Hall

# Tours on Saturday

- **Tour 1** starts at 3:15pm at the Wilson Hall entrance
  - 6 places to visit, 20 students each: **1.** CDF, **2.** DZero, **3.** future muon rings, **4.** magnets factory, **5.** new accelerators developments area, **6.** accelerators main control room
- At 4:30pm all 6 groups will come back to Wilson Hall to take busses and participate in the Tour 2

Take one ticket for 3:15pm to 4:30pm tour for the location you want to visit

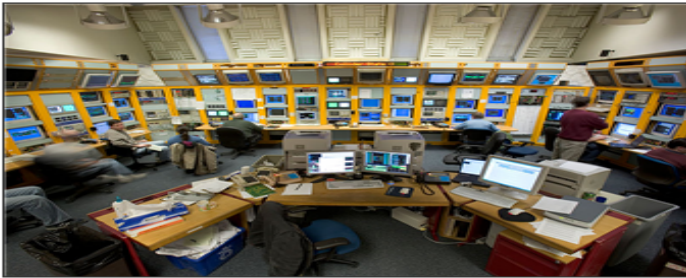
- **Tour 2** starts at 4:45pm at the Wilson Hall entrance
  - Again 6 places, 20 students each (select different(!) place to see): : **1.** CDF, **2.** DZero, **3.** future muon rings, **4.** magnets factory, **5.** new accelerators developments area, **6.** accelerators main control room
- At 6:00pm all 6 groups will be delivered by bus to the Fermilab Village for Steak Fry party

Take one ticket for 4:45pm to 6:00pm tour for the location you want to visit

Each student will be able to visit at most 2 out of 6 possible places

# Tours on Saturday

## TOURS OF FERMILAB



### CDF

CDF is a colliding beam detector located in the Tevatron. Check out the tracking wire chamber and other detector subcomponents as well as the control room.

*Coordinated by Dee Hahn.*

### DØ

DZERO is one of two detectors at Fermilab where the proton/anti-proton collisions are analyzed in exquisite detail.

*Coordinated by Dmitri Denisov*

### Muon Rings

Formerly known as the Pbar-rings, this was the heart of anti-proton production during the collider era. It is now being converted to Muon storage area for upcoming experiments like Muon g-2 and Mu2e.

*Coordinated by Jerry Annala.*

### Magnet Factory

Learn how magnets are fabricated and tested in the Technical Division. In the Industrial Building Center, magnets and SRF cavities are inspected, assembled, and cryogenically tested. The tour will visit each of these areas.

*Coordinated by Dave Harding*

### NML

Check out the latest advances in super conducting RF cavities that will be used to construct the next generation of linear accelerators!

*Coordinated by Kemit Carlson*

### Control Rooms

#### Accelerator Source and Main Control Room

This tour describes how hydrogen atoms from a tank are eventually accelerated to 99.999% of the speed of light, and eventually sent to the experiments for use, including the test beam! Highlights the Linac and Cockcroft-Walton accelerators.

- More details about the tours are available from the school Web site at
  - <http://projects.fnal.gov/hcpss/hcpss12/tours.html>

All tours will require closed toes shoes  
No exceptions!