

# Quarknet 2014 - Vanderbilt University

## 21-25 July 2014

**Welcome!**

The week in a nutshell:

**Monday Morning**, news and talks

**Monday Afternoon**, speed-of-muon experiment

**Tuesday & Wednesday**, Bob Peterson and CR e-Lab

**Thursday**, Dyer Observatory

**Friday Morning**, Arnold Engineering STEM Center

**Friday Afternoon**, Closeout discussion at UT-Space Institute

Pickup **maps** to the other sites.

# Administration

- Make sure you check the day on the **attendance sheet**. It is how the stipend will be calculated. Check it and sign it your last day in attendance.
- We have a couple of visitors this week from the Quarknet program: Ken Cecire (Notre Dame) and Bob Peterson (Fermilab).
- We have **two** working sets of cosmic ray muon detectors (CRMDs) and are looking for low-end laptops for datataking and control. Want to retire the desktops. Or we can adopt a model of installing the software on local computers...extra effort for me. We have a **third** standard set in a box, and a **fourth** set with non-standard (small) scintillator paddles.

# Monday Schedule

## **news and talk**

8:00-8:30am arrive, walk parking permit back to car, check the attendance sheet

8:30-8:45am the weeks schedule, Bill Gabella

8:45-9am LHC Status and Upgrades, Bill Gabella

9:00-9:45am CMS Status and Upgrades, Will Johns

9:45-10:00am break

10:00-10:45am LHC Physics, Andres Delannoy

10:45-11:30am Cosmic Microwave Background, Bicep2 News, Jennifer Piscionere

11:30-12:30pm Lunch

## **time-of-flight/speed-of-muons/speed-of-light experiment**

12:30pm-1:00pm Setup muon detectors and start data taking, 9th floor, stairwell

1:00-1:30pm Speed-of-light Talk, Med Webster

1:30-1:50pm switch the counters (1&3), save data and move it to Google docs, start new run

1:50-2:50pm discuss the data, use spreadsheet functions, analyze

2:50-3:10pm stop the run, move switched data over to Google,

3:10-3:30pm finish analysis with both files, find the speed-of-muons

# Tuesday and Wednesday Schedule

## **Quarknet Cosmic Ray e-Lab with Bob Peterson (Fermilab)**

8:30-9:00am arrive

9:00-noon Work

noon-1:00pm Lunch

1:00pm-3:30pm Work

...and ditto for Wednesday...

# Thursday Schedule

## **Dyer Observatory with Rocky Alvey (Vanderbilt & Dyer)**

8:30-9:00am arrive

9:00-noon Work

noon-1:00pm Lunch at Dyer

1:00-3:30pm Work

# Friday Schedule

## **Arnold Engineering STEM Center with Jere Matty (AEDC STEM Center)**

About 80 minutes from Nashville. Map to “Arnold AFB Wingo Inn.” STEM is near there.

8:30-9:00am arrive

9:00-11:00am Activities

11:30am-1pm Lunch at UTSI's “The View” cafeteria

1:00-3:00pm Closeout in CLA Conference room in building no. 6 (Chemistry).