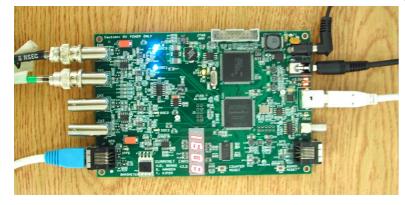
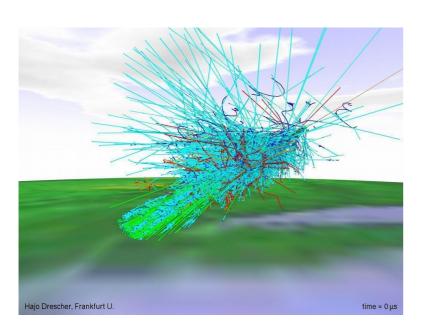


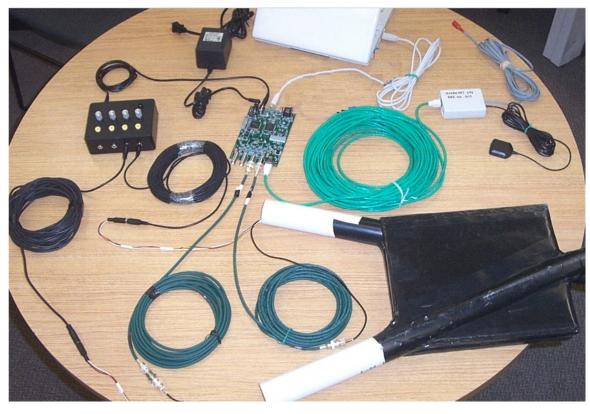
QuarkNet 2018 - Vanderbilt University 25-29 June 2018

Welcome!













QuarkNet 2018 - Vanderbilt University 25-29 June 2018

Welcome!

The week in a nutshell:

Monday Morning, news and Particle Physics talks

Monday Afternoon, Astro talks

Tuesday Morning, Gravitational Waves and "Tension" in Physics

Tuesday Afternoon, eLabs and CRMD

Wednesday, more eLabs and CRMD

Thursday, Out-of-these-doors, physics demos around Vanderbilt

Friday, open discussion(s) and activities





Administration

- Introductions around the room.
- 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.
- Also hand-in the IRS I-9 forms needed to process your stipend.
- Pickup your parking permits.
- We have two working sets of cosmic ray muon detectors (CRMDs) and have laptops for datataking and control. We have a third set with non-standard (small) scintillator paddles good for shielding experiments.
- We use the "standard" Java program Equip to control the boards/detectors.





Useful Links

- Vanderbilt QuarkNet Site: http://www.hep.vanderbilt.edu/~gabellwe/qnweb/
- Vanderbilt QuarkNet "Drupal" group page: http://quarknet.i2u2.org/group/vanderbilt-university-quarknet-center
- Vanderbilt QuarkNet Workshop 2018 page: https://quarknet.i2u2.org/content/vanderbilt-quarknet-worskhop-2018
- QuarkNet Cosmic Ray eLab Teacher page: http://www.i2u2.org/elab/cosmic/teacher/
- QuarkNet CMS eLab page: http://www.i2u2.org/elab/cms/home/project.jsp
- QuarkNet LIGO eLab Page: https://www.i2u2.org/elab/ligo/teacher/
- 2017 Marla Glover's CMS Open Data Page: http://quarknet.i2u2.org/content/vanderbilt-cms-data-agenda
- 2016 Ken Cecire's LIGO eLab page: https://quarknet.i2u2.org/content/ligo-e-lab-workshop-vanderbilt





news and talks

Monday Schedule

8:00-8:30am Arrive, parking permits for the week, check the attendance sheet & IRS

8:30-9:00am The weeks schedule, News, Announcements, Bill Gabella

9:00-9:50am CERN's Large Hadron Collider and CMS Status, Bill Gabella

9:50-10:00am Break

10:00-11:00am Particle Physics, Savannah Starko

11:00-12:00pm Machine Learning and Particle Physics, Andrew Melo

12:00-1:15pm Lunch

1:30-2:30pm Mars, David Weintraub

2:30-3:30pm Tess/Exopanets, Ryan Oelkers

3:30-4:30pm Pulsars, Nanograv, and Pulsar Timing Arrays, Natasha McMann





Tuesday Schedule

Other Science out there and muon detectors

8:30-9:00am Arrive

9:00-10:00am Gravitational Waves and GW170917, Bill Gabella

10:00-10:10am Break

10:10-11:00am, "Tension" in Physics, Bill Gabella

11:00-noon

noon-1:15pm Lunch

1:30-4:00pm eLabs and Cosmic Ray muon detectors (overnight runs?s)





Wednesday Schedule

More eLabs and CRMDs

9:00-10:30am eLabs and CRMDs

10:30-10:40am Break

10:40-noon more eLabs and CRMDs

noon-1:15pm Lunch

1:30-4:00pm yet more eLabs and CRMDs

Last years visit from Marla Glover:

http://quarknet.i2u2.org/content/vanderbilt-cms-data-agenda





Thursday Schedule

Outside on campus, physics and videos, leaky bottles, etc.

9:00-noon Activities

noon-1:15am Lunch

1:30-4:00pm Activities





Friday Schedule

Open discussion and activities

9:00-10:50am

10:50-11:00am Break

11:00-noon

noon-1:15pm Lunch

1:30pm-4:00pm