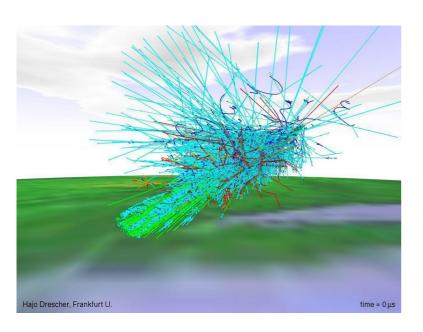


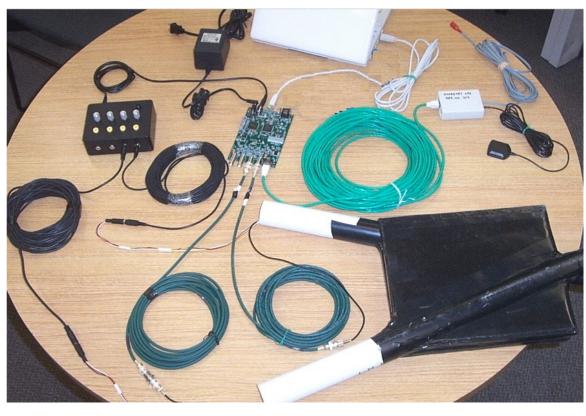
QuarkNet 2020 - Vanderbilt University 22-26 June 2020

Welcome!













QuarkNet 2020 - Vanderbilt University 22-26 June 2020

Welcome!

Zoom (zoom.us) meeting 9am to 12:10pm each day.

The week in a nutshell:

Monday Morning, news and talks

Tuesday Morning, talks

Wednesday Morning, Cosmic Ray Muon Detector from the lab

Thursday Morning, neutrinos workshop (with Ken Cecire)

Friday Morning, neutrinos, online teaching discussion, paperwork

All Online! on Zoom, coordinates Meeting ID: 999 1401 8433,

Password: 937318 Zoom Link w/PW





Administration

- Check-ins around the "room."
- Keep your attendance and send me a signed letter.
- Some may need the IRS W-9 form and ACH bank direct deposit form needed to process your stipend.
- 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.
- Registration and Survey for QuarkNet Central, links on the must-do-items page.
- Putting talks and data sets at GitHub Vanderbilt-QuarkNet Workshop 2020





news and talks

Monday Schedule

9:00-10:00am Bill Gabella talk, administration and news

10:00-10:10am Break

10:10-11:10am Will Johns

11:10-12:10pm Steve Taylor





Tuesday Schedule

Talks

9:00-10:00am Karan Jani

10:00-10:10am Break

10:10-11:10am Brenda Fabela

11:10-12:10pm Vicki Greene





Wednesday Schedule

Cosmic Ray Muon Detector, follow the signal and hardware

9:00am-12:10pm Bill in the 9th Floor lap running around, following direction, measuring whatever can be measured, some data to look at too.





Thursday Schedule

Neutrino Workshop

9:00am-12:00pm Neutrino Workshop with Ken Cecire, QuarkNet Page





Friday Schedule

Neutrino Workshop

9:00am-12:10pm Neutrino Workshop, see link previous page





News

Congratulations to Kim Baumann, Blackman HS, and her student Sammi H.!

Sammi used the CRMDs for a semester long capstone plus. Included a talk the School for Science and Math at Vanderbilt (SSMV in the Center for Science Outreach). He investigated using the cosmic ray muons for muography---seeing inside objects for high dense regions by muon attenuation. Very hard with our CRMDs...could maybe see a bridge overpass vs open sky, but without tracking trajectories takes a lot of data.



Looking for buildings vs open field







Useful Links for This Workshop

- CRMD User Manual https://github.com/gabella/VandyQuarkNet/tree/master/manuals
- Vanderbilt QuarkNet "Drupal" group page: http://quarknet.i2u2.org/group/vanderbilt-university-quarknet-center
- QuarkNet Virtual Neutrinos at Vanderbilt by Ken Cecire: https://quarknet.org/content/virtual-neutrino-workshop-vanderbilt
- QuarkNet Virtual Neutrino template: https://quarknet.org/content/virtual-neutrino-workshop-template-2020
- QuarkNet Virtual Neutrino UofF page: https://quarknet.org/content/neutrino-data-workshop-prototype-uf





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