



QuarkNet 2023 - Vanderbilt University

19-23 June 2023

In-person meeting, Vanderbilt Physics Stevenson Center SC6322. Will try to run a Zoom for the meeting also, but likely up and down, [here](#).

Monday, introductions, news, and talks, Juneteenth!

Tuesday, making "YouTube-style videos"

Wednesday, mo' making "YouTube-style videos"

Thursday, making "YouTube-style videos," share results

Friday, CRMDs, [must do items](#) and survey

Administration

- Check-ins around the room.
- Sign the attendance sheet.
- Our Admins will send links to set new folks up as “vendors” for Vanderbilt, all legit and for paying the stipends.
- We have **three** working sets of cosmic ray muon detectors (CRMDs) and have laptops for datataking and control.
- We use the “standard” Java program *Equip* to control the boards/detectors. Though simpler programs are possible.
- Registration and Survey for QuarkNet Central, links on the [must-do-items](#) page. Time for Survey Friday.
- This years and prevous talks and data sets at [GitHub Vanderbilt-QuarkNet Workshops](#)



Lunch Venues Near Campus

21st Ave Side (the East side):

- Chipotle Mexican Grill
- Subway Sandwich
- Panera Bread
- San Antonio Taco Co.
- Taco Mama-Hillsboro Village
- Double Dogs
- Shokku Ramen
- Hopdoddy

West End Side (the West side):

- Jason's Deli
- Jersey Mike's Subs
- Oscar's Taco
- Martin's Bar-B-Que
- Wendy's
- Newk's Eatery
- Bombay Palace
- Taziki's Mediterranean Cafe

And Many More...



Monday Schedule

News and Talks

8:30-9:00am Bill Gabella, administration and news

9:00-10:00am Dale Julson, High Energy Physics and CMS

10:00-10:10am Break

10:10-11:10am Bill Gabella, LIGO and Gravitational Waves

11:10-12:10am Krystal Ruiz-Rocha, LISA and Gravitational Waves

12:10-1:30pm Lunch

1:30-2:30pm Charreau Bell, ChatGPT

2:40-3:40pm Sara Frederick, Quasars

Think about the use of the weeks material for use in the classroom, see the Guide to Teacher Implementation Plan Development . We will discuss and brainstorm these Friday.



Tuesday Schedule

YouTube Style videos

Morning Show examples, filming, analysis, and animation

Bill's Google Doc notes, [Video Analysis \(Tracker\)](#), [Animation](#), and [Editing](#)

12:00-1:15pm Lunch

Afternoon Plan and shoot some video.



Wednesday Schedule

YouTube Style videos

Morning Discuss projects, and show draft results

12:00-1:15pm Lunch

Afternoon Project work



Thursday Schedule

YouTube Style videos

Morning Project work

12:00-1:15pm Lunch

Afternoon Project work



Friday Schedule

Last Day, implementation plans, survey, miscellaneous

Morning Discuss the CRMDs, start a run, show/discuss video projects, use in the classroom

12:00-1:30pm Lunch

Afternoon [Must do items](#), [survey](#), CRMDs, and all other business

Useful Links

- 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>
- Vanderbilt QuarkNet Site, GitHub:
<https://github.com/gabella/VandyQuarkNet>
- Vanderbilt QuarkNet Site, older web pages:
<http://www.hep.vanderbilt.edu/~gabellwe/qnweb/>
- Vanderbilt QuarkNet Workshop 2022 page:
<https://github.com/gabella/VandyQuarkNet/tree/master/quarknet2022>
- 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>