

QuarkNet Teachers Workshop, 2016

Teaching with Data

“Comitium” conference room, Wilson Hall, 2nd floor SE

Wednesday, July 27th

09:00 Welcome

09:15 Chalk Talk: Chris Polly, “Introduction to Fermilab and the Muon g-2 Program”

10:00 Student Project: Keshav Kapoor, “Art Visualization Using Paraview”

10:30 Student Project: Amira Malik, “Inquiries in SQL: Setting Up a Runs Database”

11:00 Student Project: George Ressler, “Muon Confinement Field Shaping”

11:30 Student Project: Pranav Sivakumar, “An Automated Search for Gravitationally Lensed Quasars in the Dark Energy Survey”

12:00 Lunch

13:00 Tour: Muon g-2 Experiment, MC-1 Building, Robin Bjorkquist

14:00 Student Project: Ryan Thornton, “Waves to Ones and Zeros: Data Analysis in Radio Astronomy”

14:30 Student Project: Ben Hardin, “QuarkNet Radio Telescope and Mechanization of Tracking”

15:00 Discussion

15:30 Close

16:00 optional recommended Colloquium: Amber Stuver, “LIGO and the Detection of Gravitational Waves”, One West

Thursday 27 June 2013

09:00 Recap and Plan

09:30 Student Project: Gabriel Rizzo, "Design and Modeling of Dark Matter Axion Detectors"

10:00 Student Project: "Collin Bradford, Digital Design for Astrophysics Detectors"

10:30 Tour: D0 Tevatron,

12:00 Lunch/Lecture: Brittany Kamai, Vanderbilt University, "Piecing Together the History of the Universe"

13:00 Exploration: Marla Glover, What is CMS?

CMS public, CMS masterclass, CMS e-Lab > "metro map"

14:00 CMS Data Express e-Lab edition

14:45 Z mass plot (start at metro map)

15:30 Close

Friday 28 June 2013

09:00 Recap and Plan

09:30 Explore posters in e-Lab

10:00 Discussion and creation of research questions

10:30 Group work: investigations, posters

12:00 Lunch

13:00 Finalize posters

13:00 Present posters

14:30 CMS e-Lab user group discussion

15:00 Survey and Evaluation

15:30 Close