AGENDA
July 5-8 , 2023
Sanford Underground Research Facility, E&O Building
630 E. Summit Street, Lead, SD

Day 1

5:00 pm Pre-Workshop
- Welcome & introductions
- Registration and create/login to Google account·
  Coding 2: refresh
- Norms, APS STEP UP poster & Fermilab norms poster
- Introduction to Jupyter
  o Review from coding 1
  o Skills: run, edit, & save a notebook

Day 2

8:00 Coding activities
- Advanced applications of coding for data analysis
  o Creating a data activity for your classroom

11:15 All hands meeting
- Share observations, challenges
- How do you think your students would handle these tasks?

12:00 Break
- Lunch
- Create/update your Quarknet.org account

13:30 Dark Matter masterclass activity
Introduction to Dark matter,
Using coding to unlock the mystery of dark matter

15:30 All hands meeting
- Share observations, challenges
- How do you think your students would handle these tasks?
- End of Day Refection

Day 3

8:00 Welcome back
- Recap from yesterday

- · Morning Newspaper
- · What stood out? Any new thoughts?

8:30 Dark matter master class

Doing the data analysis

What this means for students

12:00 Break
- · Lunch
- · Get help on coding issues
- · Finish your coding activity and drafting an implementation plan

14:30 Share out
- · Teachers take turns (5 min each) sharing your ideas for how coding might make it into your classroom.
- · What will you do with your project from last year?
- · Is there a new direction you want to look at?

15:30 All hands meeting
- · Share observations, challenges
- · Closing thoughts? Where to next?
- · End of Day Reflections

16:00 Prep for neutrino day
Cloud Chamber
Radiation shielding
CRMD

Day 4

8:00 Neutrino Day
- · Set-up
- · Booth rotation

11:00 Break
- · Lunch

16:00 All hands meeting
- · Booth clean-up and debrief
- · Closing thoughts? Where to next?
- · End of Day Reflections