



Fellows

QuarkNet Fellows Program





Fellows

Year of Growth

Expanded Fellows program in 2023

- Currently five groups totaling **41** Fellows
- Up from **30** a year ago
- Does not include our **6** STEP UP leaders, three of whom serve as fellows in other groups



Fellows

Year of Reconnecting

This year we started meeting in person again:

- Fellows supported over **20** workshops and camps in the Summer of 2022, most of which were in person.
- **27** fellows came to Fermilab from November **4–6** for our first full Fellows Meeting since before the pandemic.



Fellows

Coding

Growth: 4 fellows (2021) → 8 fellows (2022) → 16 fellows (2023)

- **With doubling time of one year, we expect 512 by the end of the next grant cycle.**

Diversity among our fellows has helped serve our diverse teacher base.

- **13 women & 3 men**
- **3 Latinx teachers and 2 Black teachers**
- **Teachers serve a range of high school class levels and student demographics.**



Fellows

Cosmic

Facilitate Cosmic Ray workshops

Organize International Muon Week

Recently inaugurated bimonthly help sessions for teachers with detectors

Helpdesk supports detectors and e-Lab

Suggest and test improvements to e-Lab

Collect curated files for simple virtual experiments for those without detectors

Test Cosmic Watch

Create special projects: Eclipse, MUSE, storm tracking, moon shadow



Fellows

LHC

Facilitate LHC-related workshops.

CMS e-Lab

LHC Data

Higgs & new physics

Contribute to International Masterclasses (IMC):

- **Orient new and existing masterclass institutes.**
- **Create, maintain CMS masterclass.**
- **Participate in moderating IMC & W2D2 videoconferences.**
- **Participate in IMC at their own schools & centers.**

Create, test, use LHC Data Activities.



Neutrino

Develop and facilitate Neutrino Data and other workshops.

Work on development of NOvA Masterclass and NOvA Data Workshop.

Continue to support MINERvA Masterclasses and Data Workshops.

Presented at AAPT Meetings in 2022 and 2023.



Fellows

Teaching and Learning

Currently **4** T&L Fellows.

Plan, organize, and facilitate Data Camp.

Details on T&L Fellows activities are in the Data Camp presentation.