

Fellows

QuarkNet Fellows Program

QuarkNet



Adams, Cecire, LaMee, Pasero, Smith, & Wood, Ad Board Meeting, Jan. 2023



Year of Growth

Expanded Fellows program in 2023

- Currently five groups totaling **41** Fellows
- Up from **30** a year ago

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 Does not include our 6 STEP UP leaders, three of whom serve as fellows in other groups





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.



Coding

Growth: 4 fellows (2021) \rightarrow 8 fellows (2022) \rightarrow 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

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- 3 Latinx teachers and 2 Black teachers
- Teachers serve a range of high school class levels and student demographics. Adams, Cecire, LaMee, Pasero, Smith, &

Adams, Cecire, LaMee, Pasero, Smith, & Wood, Ad Board Meeting, Jan. 2023



Cosmic

Facilitate Cosmic Ray workshops

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- **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 Adams, Cecire

Adams, Cecire, LaMee, Pasero, Smith, & Wood, Ad Board Meeting, Jan. 2023



LHC

Facilitate LHC-related workshops.

CMS e-Lab

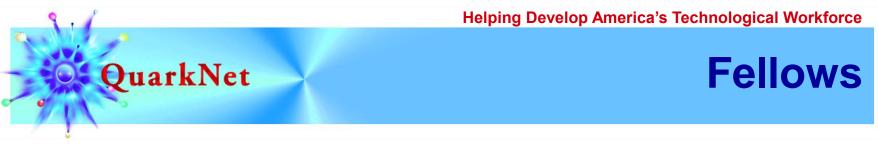
LHC Data

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.

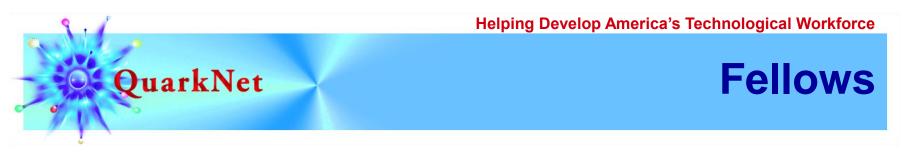
Create, test, use LHC Data Activities.



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.**



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.