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QuarkNet Center Summer Programs

Cooperative Research and Development Agreement Final Report

CRADA Number: FRA-2014-0022

Fermilab Technical Contact: Chris Stoughton

Summary Report
27 September 2019

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In accordance with Requirements set forth in Article X of the CRADA document, this document is the final CRADA report, including a list of Subject Inventions, to be forwarded to the Office of Science and Technical Information as part of the commitment to the public to demonstrate results of federally funded research.

CRADA number: FRA-2014-0022

CRADA Title: QuarkNet Center Summer Programs at Fermi National Accelerator Laboratory and the University of Chicago

Parties to the Agreement: University of Notre Dame Du Lac and Fermi Research Alliance, LLC.

Abstract of CRADA work:

The purpose of this CRADA is to provide the contractual vehicle for Fermilab to receive funds from Notre Dame in support of the QuarkNet Local Programs that are managed by Fermilab. Local QuarkNet Centers provide professional development programs to high school teachers and high energy physics research opportunities to high school teachers and students who participate in the local programs. Fermilab administers a local program that combines two QuarkNet Centers, for Fermilab and the University of Chicago.

Summary of Research Results:

The QuarkNet Local Program is a key component of Fermilab's education initiatives. It provides local-area high school teachers and students an opportunity to work with Fermilab scientists on a variety of research projects and professional development activities related to the Fermilab high-energy physics mission. Program funding supported 8 teachers in FY15, 8 teachers and 4 teachers in FY17.

Related Reports, Publications, and Presentations:

Muon g-2 Beam Storage Magnet B Field Shaping:

<https://www.slideshare.net/GeorgeRessinger/muong2beamstoragemagnetbfieldshaping>

Big Data Analytics for Identification of Gravitationally Lensed Quasars in the Dark Energy Survey: https://quarknet.fnal.gov/fnal-uc/quarknet-summer-research/QNET2016/project_files/PaperPranav.pdf

Subject Inventions listing:

None

Report Date: 24 September 2019

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