



I·AN **N** Network of Networks
Inter-American QCD



The Inter-American network of networks of QCD challenges

AccelNet: Accelerating Research through International Network-to-Network Collaborations

Program goals

- (1) Develop strategic partnerships across the various physics research networks in the Americas to tackle QCD challenges;
- (2) Identify the needs, strengths and synergies of network partners for developing large scale science projects in the US;
- (3) Design activities for researchers in the U.S., Canada, and Latin America that will facilitate leveraging complementary resources for QCD research, and
- (4) Enhance the training of the next generation of researchers in a novel set of skills that include international multi-team experience.

Research areas related to QCD

- Accelerator technologies
- Theory
- High performance computing
- Particle detectors, instrumentation and electronics
- Real-time event selection
- Software development, and development of Monte Carlo simulation
- AI and QIS tools

Kick-off meeting at CFNS on Dec 16, 2021
120 participants
<https://indico.bnl.gov/event/13562/>

List of invited networks

we are an open network: future networks can also participate

- [Electron-Ion Collider User Group](#)
- [Jefferson Lab Users Association](#)
- [RHIC and AGS User's Group](#)
- [US LHC Users Association](#)
- [Association of Latin American Nuclear Physics and Applications \(ALAFNA\),](#)
- [Southeastern Universities Research Association \(SURA\)](#)
- Latin American Association for High Energy, Cosmology and AstroParticle Physics
- [Nuclear Physics and Applications \(INCT-FNA\)](#)
- Rede Nacional de Física de Altas Energias (RENAFAE)
- [Mexican Particle Accelerator Community \(CMAP\)](#)
- [EIC-Canada Collaboration](#)
- [California EIC Consortium](#)

List of invited network partners

We are an open network: future networks can also participate

- [Center for Frontiers in Nuclear Physics \(CFNS\)](#) at Stony Brook University & Brookhaven National Laboratory
- [The Electron-Ion Collider Center at Jefferson Lab](#)
- [Center for Accelerator Science at Old Dominion University](#)
- [The ICTP South American Institute for Fundamental Research \(ICTP-SAIFR\)](#)
- [Canadian Institute of Nuclear Physics](#)
- [TRIUMF. Canada's Particle Accelerator Center](#)
- [The Institute of Nuclear Theory](#)
- [Center for Nuclear Femtography](#)

Community-led program

Some examples of activities of interest

- Support to organize workshop, conference, summer schools
- Support for research visits
- Mobility
 - US person → to Canada or Latin America
 - Canadian or Latin American person → to US
- Support White Papers or community-led documents preparations
- Young scientists-led events
- Projects that promote development of early-career researchers
- Activities that promote better communication channels

IANN-QCD contacts

- **Program coordination:** Daniel Tapia Takaki, Christine Aidala, Carlos Bertulani, Jean Delayen, and Abhay Desphande
- **Your network representatives** (see list of invited networks)
- **National contact people:** Daniel de Florian (Argentina), William Brooks (Chile), Irais Bautista (Mexico, theory) and Gerardo Herrera Corral (Mexico, Experimental)

Inquiries about this call should be directed to:

Dr. Daniel Tapia Takaki
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For specific inquiries to explore research opportunities can also be directed to:



- Research opportunities in the EIC project
Dr. Abhay Deshpande
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- Research opportunities in the experimental QCD program
Dr. Christine Aidala
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- Research opportunities in accelerator science and technologies
Dr. Jean Delayen
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- Research opportunities in the theoretical and computing QCD program
Dr. Carlos Bertulani
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International Advisory Board

- Prof. Luisa Cifarelli (University of Bologna, Italy)
- Prof. Barbara Erazmus (SUBATECH, IMT Atlantique, CNRS/IN2P3, France)
- Prof. Paolo Giubellino (GSI and Technische Universität Darmstadt, Germany)
- Prof. Oliver Kester (TRIUMF, Canada)
- Prof. Jorge López (The University of Texas at El Paso, USA)
- Prof. Luciano Maiani (Sapienza University of Rome, Italy)
- Prof. Robert McKeown (Jefferson Lab and College of William and Mary, USA)
- Prof. Larry McLerran (INT and University of Washington, USA)
- Prof. Veronica Riquer (Sapienza University of Rome, Italy)
- Prof. Alberto Santoro (Rio de Janeiro State University, Brazil)
- Prof. Robert Tribble (Brookhaven National Lab and Texas A&M University)

Supported activities

<http://www.iann-qcd.org>

- For this call, IANN-QCD is interested in supporting the following types of activities:

Activity 1: Exchange visit programs

Activity 2: Early-stage research projects

Activity 3: Participation or organization of scientific meetings

Activity 4: Strategic partnerships

Upcoming events in 2024

- **Capacity building workshop for early career researchers in QCD in Washington DC**
- **More info will be announced by early January**

New directions

- We are considering opening more targeted calls for proposals. After the capacity building workshop with ECA, we expect they will create some “working groups” to suggest some specific proposals
- Currently exploring a joint call for proposals with other international networks, including from any continent
- I.ANN QCD is a community-led network of networks. Your inputs and engagement are essential for making it a success

Useful links

Please help us advertising this program and get engaged !

Website:

<https://www.iann-qcd.org>

Join the IANN-QCD Mailing list

<https://www.iann-qcd.org/mailling-list>

LinkedIn group

<https://www.linkedin.com/groups/12692187/>