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

The Inter-American network of networks of QCD challenges

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IAAN-QCD meeting
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Inter-American Network of Networks of QCD challenges – 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.

Program activities

- Establish communications and relationships among existing networks
- Promote the development of new networks to tackle QCD challenges
- Organization of scientific meetings aimed at bringing the community together. Support the organization of workshops, conferences, summer schools organized by networks or network partners
- Research exchange and mobility programs between networks in the U.S., Canada and Latin American countries

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

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

Call for Proposals

Go to 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

We expect a large fraction of the applications will be submitted by May 31, 2022. All the proposed activities must be completed by June 1, 2023.

Call for Proposals

Go to http://www.iann-qcd.org

Applications can be submitted at any time. Proposals should identify a U.S. researcher that will serve as the contact person. While there is no recommended level of funding, it is anticipated that award sizes may range from $500 to $15,000 per year. Funding may be used to support travel or local expenses related to the proposed activities.

Funding can be requested by individual researchers or by network representatives. Travel for students and postdoctoral researchers should be requested by a senior researcher that directly supervises their research work, unless those requests are made by network representatives. Network representatives can request funding for a collective group of students and researchers. A detailed justification should be provided in the application materials when such arrangements are proposed.

FAQs (I)

- **Question 1**: I work in a US institution and have DOE funding, can I still apply? Yes, there is no restrictions
- **Question 2**: Do you have any guidelines or application form? Yes, you can find the “project proposal application guidelines” on the website.
- **Question 3:** When is the deadline? There is no formal deadline, but we expect to have announce lots of support by end of May, so do not wait until May 31!
- **Question 4**: I work in a Latin American institution and would like to collaborate with colleagues in the US and Canada, but do not have any contacts? Please contact the program coordination and we can help you establishing those contacts

FAQs (II)

- **Question 5:** I work in QCD projects but the listed topical groups do not fit my exact interest, does it mean that I cannot apply? For this open call, we have selected broadly defined topics that we believe capture many opportunities. You are also welcome all proposals, and the committee will consider them. Feel free to contact us any discussions.
- **Question 6:** I am organizing a conference in a Latin American country, can I use these funds to support some speakers? Yes, it can be anywhere in the Americas with network activities. This is part of one of the supported activities. See the open call for proposals
- **Question 7**: Can these activities by led by “juniors”, graduate students or postdocs? Yes, we want grad students and postdocs to have a leadership role in proposing and organizing activities.

FAQ (III)

- **Question 8:** Do I need to secure additional funding for my proposed activities? The funds of IANN-QCD are expected to leverage additional resources.
- **Question 9:** I am part of more than one network, is this OK? Yes. We welcome proposals that promote activities across networks.
- **Question 10:** My country does not have any established networks, what should I do? Contact the program coordination to discuss some possibilities. See list of invited networks
- **Question 11:** We have a national contact person, but we would like to do binational or multinational proposals. Do we need to work with our national contact person directly? No, we welcome all type of initiatives
- **Question 12**: What's the role of the national contact people? They have identified for the potential to establish national QCD networks. We believe there is the potential to leverage resources with such national networks in the future.

Call for Proposals

Go to http://www.iann-qcd.org

Please help us advertising this program and get engaged !

Useful links

- **Program website**
  http://www.ainn-qcd.org

- **Dec 16 2021 kick-off meeting at CFNS, Stony Brook**
  https://indico.bnl.gov/event/13562/overview

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:

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For specific inquiries to explore research opportunities can also be directed to:

- Research opportunities in the EIC project
  Dr. Abhay Desphande
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- Research opportunities in the experimental QCD program
  Dr. Christine Aidala
  caidala@umich.edu

- Research opportunities in accelerator science and technologies
  Dr. Jean Delayen
  delayen@jlab.org

- Research opportunities in the theoretical and computing QCD program
  Dr. Carlos Bertulani
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