



## IMCC Muon Collider Demonstrator Workshop Orientation

Sergo Jindariani and Diktys Stratakis (Fermilab)  
On behalf of the local organizing committee

# Why are we here?

One of the key challenges in development of the muon collider is delivery of a high brightness muon beam, which is essential to produce sufficient luminosity. Ionization cooling is the technique that is planned to increase beam brightness. The ionization cooling technique has been demonstrated in principle by the Muon Ionization Cooling Experiment. However, several questions remain that must be answered to prove that the technique can be applied in practice. The IMCC foresees a Muon Cooling Demonstrator and associated development program that must be executed to deliver the muon collider.

- **In this workshop we will:**

- Review the progress on design of the muon cooling Demonstrator.
- Identify potential host sites and associated timelines within which the Demonstrator could be deployed.
- Identify associated science programs that could be synergistic with the development, construction and operation of the Demonstrator.

# Our Agenda

## Wednesday

Welcome & Introduction

Lunch (1h)

Magnets

Workshop Dinner

## Thursday

RF

Lunch (1h)

Synergies

Possible Site Contributions

## Friday

Possible Site Contributions

Lunch (1h)

Possible Site Contributions

Discussions

Fermilab Wine and Cheese Seminar (M.Palmer)

All the sessions will be in 1West:

<https://indico.fnal.gov/event/64984/timetable>

Restrooms are located around the corner to the right when you exit

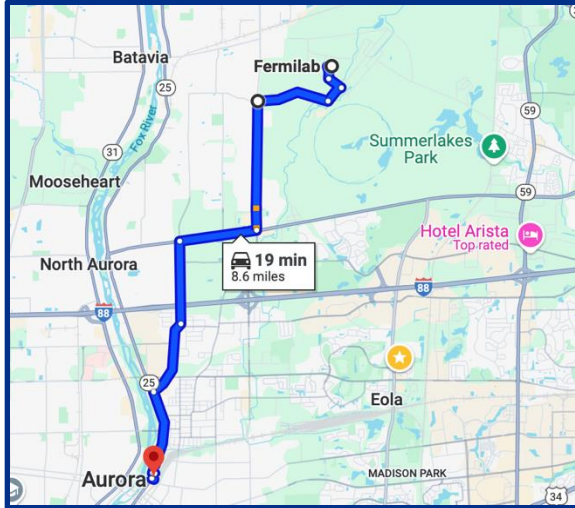
# Lunch, Coffee Breaks, Photo

- Coffee breaks will be served right outside of this room in the morning and afternoon
  - Food and drinks for registered participants
- Lunch is on your own
  - If you are buying from the Fermilab cafeteria, we suggest ordering ahead
  - The line can get long, feel free to bring outside lunch
- Our photo will be taken right before the lunch today 12:30pm
  - Please gather at the Atrium entrance
- Friday is our Wine and Cheese reception on the 2nd floor at 3:30 PM
- Reminder that if you're a business visitor you'll have to be escorted when in non-public areas

# Logistics for the Talks

- Please upload your slides a day before your talk
  - Let me and Diktys know if you have any issues
- Double check your time:
  - Allow time for questions at the end of your talk
  - Stick to your time – we have a busy agenda with some inflexible elements
- When asking questions:
  - Zoom participants – please raise hand and we will allow you to unmute
  - People in the room please use the mic – we have Zoom participants
  - Please introduce yourself with your name and institution
- WiFi: Fermilab has **guest** access; registration is required. **Eduroam** is also available.

# The Workshop Dinner



- Tonight is our dinner at Two Brothers Roundhouse from 7:00 – 9:00 PM. (Aurora, not Warrenville)
- Buffet dinner with beer and wine
- Bus transportation is provided for our group and will depart/return at the Atrium front entrance
- Many local people have cars so feel free to self-organize for carpooling
- Tomorrow is Halloween – we kept the evening free in case you want to trick or treat

# Fermilab Statement of Community Standards

- All registrants have read, understood, and agreed to comply with the [Fermilab Statement of Community Standards](#)
- This statement provides the baseline expectations for conduct by all members of the Fermilab community
- We welcome you all here today as part of the Fermilab community
- The responsibility for proactively facilitating a safe and welcoming environment - including voicing concerns - rests with each member of the Fermilab community

## **Build trust and credibility**

Fermilab's success depends on the trust and confidence we develop with one another and with our stakeholders and partners including the U.S. Department of Energy, the American public, and the global scientific community. As we engage in business on behalf of the Laboratory, we each are ambassadors of Fermilab.

Fermilab's reputation is determined by our words and our actions. We gain credibility by fulfilling on our commitments and, when appropriate, acknowledging when we will not and taking responsibility for the consequences.

## **Communicate openly and honestly**

Every member of the Fermilab community is welcome, and each encouraged to communicate their ideas and/or concerns. We seek to promote open communication which emphasizes listening, creativity, growth and development, collaboration, and inclusivity. This culture encourages respectful discussion and debate for mutual benefit.

## **Respect one another**

Members of the Fermilab community shall be able to work in a safe and welcoming environment where everyone is treated with dignity and respect. Peer-to-peer or supervisory relationships that interfere with an individual's research or work performance, limit access to educational experiences and career opportunities, or adversely impact an individual's well-being are unacceptable.

# The Org Committees

## INTERNATIONAL ADVISORY COMMITTEE

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Kathleen Amm (Florida State University)

Sarah Cousineau (ORNL)

Mamad Eshraqi (ESS)

Sergo Jindariani (Fermilab)

Ryuichiro Kitano (KEK)

Roberto Losito (CERN)

Donatella Lucchesi (INFN Padova)

Emilio Nanni (SLAC)

Chris Rogers (STFC, RAL, Chair)

Daniel Schulte (CERN)

Diktys Stratakis (Fermilab)

Lucio Rossi (INFN Milan)

Akira Yamamoto (KEK)

## LOCAL ORGANIZING COMMITTEE

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Sergo Jindiniari (Fermilab)

Diktys Stratakis (Fermilab)

Anne Ferguson (Fermilab Conference Office)

Dawn Staszak (Fermilab Conference Office)



There is a big community exciting about the prospect of having a muon collider

Let's work together for the next European Strategy, mid-P5 panel, and towards a common goal of having a Muon Collider



IMCC Annual Meeting 2024



US Muon Collider Community Meeting 2024

**On behalf of the organizers - wishing all of you a fun and productive workshop!**