



# The Electron-Ion Collider Accelerator Collaboration

**Wolfram Fischer**

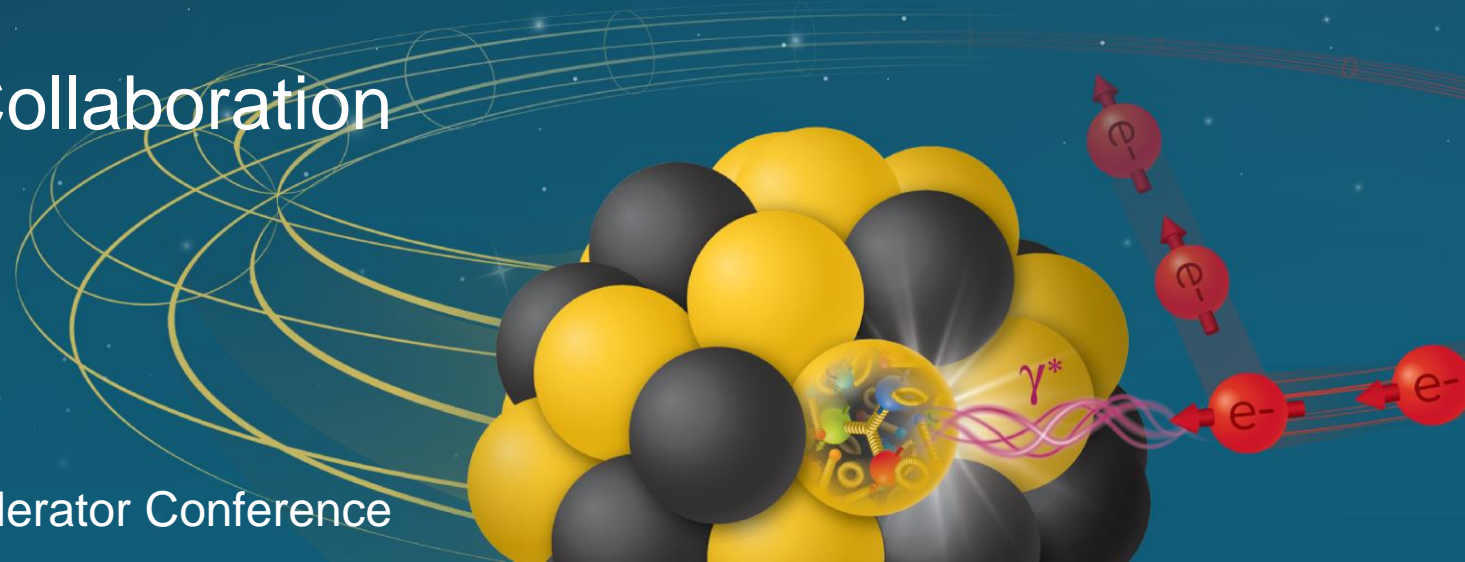
Deputy Associate Lab Director for Accelerators in Nuclear and Particle Physics  
Collider-Accelerator Department Chair

Co-Chair EIC Accelerator Collaboration  
with Tatiana Pieloni (EPFL)

20 May 2026

Electron-Ion Collider

IPAC'26 – the 17<sup>th</sup> International Particle Accelerator Conference



# Thank you Andrei

---

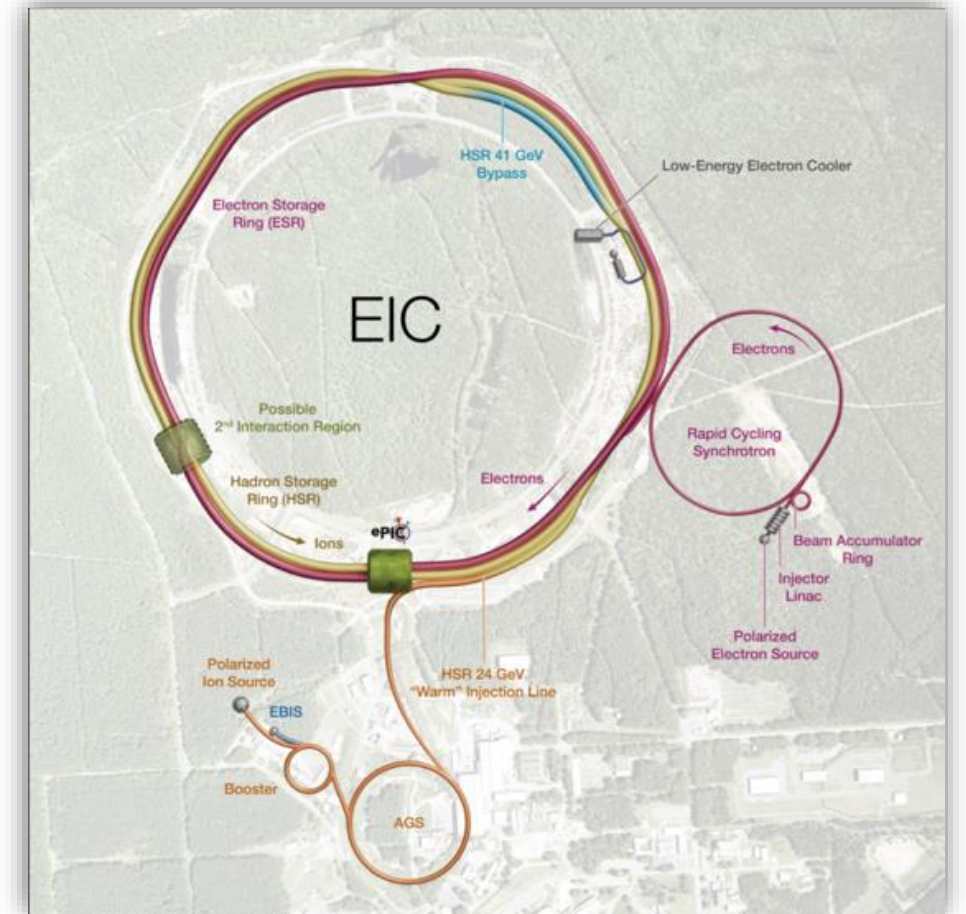


- Andrei Seryi,  
Old Dominion University
- EIC Accelerator Collaboration  
Co-Chair 2024-2026

# EIC Facility Requirements

## Ultimate Performance Parameters

- High Luminosity:  $L = 10^{33} - 10^{34} \text{cm}^{-2}\text{sec}^{-1}$
- Highly Polarized Beams: 70%
- Large Center of Mass Energy Range:  
 $E_{\text{cm}} = 28 - 140 \text{ GeV}$
- Large Ion Species Range:  
protons – Uranium
- Large Detector Forward Acceptance and  
Low-Background Conditions
- Possibility to Implement a Second  
Interaction Region (IR)



# What is the EIC Accelerator Collaboration

---

- We would like to collaborate with other labs in the world
  - to realize the EIC, and
  - for mutual benefit
- On topics of common interest in
  - Beam dynamics
  - Technology

# EIC Accelerator Collaboration and synergies with FCC studies

May 20, 2026  
Europe/Paris timezone

Enter your search term



Overview

Timetable

Contribution List

Registration

Participant List



The [Electron-Ion Collider \(EIC\)](#) will be a world-leading facility for exploring the strong nuclear force—the fundamental interaction that binds quarks and gluons into protons, neutrons, and nuclei. Hosted at Brookhaven National Laboratory and built on the existing RHIC infrastructure, the EIC will bring high-energy electron beams into collision with protons and heavy ions to unlock deep insights into the structure of matter.

The realization of the EIC presents an array of scientific and technical challenges, offering a unique opportunity for the global accelerator community to engage in a major international project.

To support this, the [EIC Accelerator Collaboration](#) was officially launched in December 2023. Since its inception, the collaboration has taken flight, with growing international engagement and ongoing contributions to key areas of EIC design, R&D, and long-term performance planning.

# What is the EIC Accelerator Collaboration

EICAC ↻

[About](#) [Contact](#) [Working Groups](#) [EICUG ↗](#) [Indico ↗](#) [News](#)

<https://eicac.org/>

[Home](#)

## News 📡

### EICAC will meet at IPAC 2026

Electron-Ion Collider Accelerator Collaboration will meet on May 20, 2026 at premiere accelerator physics conference - IPAC 2026. This special session will bring together the EIC and FCC communitie...

May 19, 2026 · 1 min · 111 words · EICAC Team

### Wolfram Fischer Appointed Co-Chair of the EIC Accelerator Collaboration

Dr. Wolfram Fischer has been named co-chair of the Electron-Ion Collider Accelerator Collaboration (<https://eicac.org/>). Fischer will partner with Tatiana Pieloni of École Polytechnique Fédérale de...

March 6, 2026 · 1 min · 41 words · EIC Project Team

### EICAC will meet at NAPAC 2025

Several hundred accelerator experts from around the world will meet on August 10-15, 2025, in Sacramento, California, during premiere accelerator physics conference NAPAC 2025. The EIC

# EIC Accelerator Collaboration Working Groups

---

- Beam-beam - [Christoph Montag](#) & [Xavier Buffat](#)
- Polarized Beams & Polarimetry - [Frank Rathmann](#) & [Georg Hoffstaetter](#)
- Commissioning Tools - [Yue Hao](#) and [Jean-Luc Vay](#)

Possible additional working group

- Second Interaction Region
- Electron injectors
- High Energy Beam Cooling
- FCC-EIC Forum
- More WGs are coming

# EIC AC Institutional Board

Lin Liu	LNLS	Brazil
Oliver Kester	TRIUMF	Canada
Guillaume Olry	IJCLab	France
Pierre Vedrine	CEA Saclay	France
Qing Qin	ESRF	France
Ralph Assmann	GS/FAIR	Germany
Lucio Rossi	INFN Milano	Italy
Roberto Cimino	INFN-LNF	Italy
Moses Chung	Pohang Accelerator Lab	South Korea
Amalia Ballarino	CERN	Switzerland
Graeme Burt	Lancaster University	UK
Carsten Welsch	University of Liverpool	UK
Nik Templeton	STFC	UK
Phil Burrows	John Adams Institute	UK
Stewart Boogert	Cockcroft Institute	UK
Georg Hoffstaetter	Cornell University	United States
Jean Delayen	Old Dominion University	United States
John Power	ANL	United States
Mei Bai	SLAC	United States
Sam Posen	Fermilab	United States
Sarah Cousineau	ORNL	United States
Soren Prestemon	LBNL	United States
Young-Kee Kim	University of Chicago	United States
Yue Hao	FRIB	United States

First meeting  
on 29 May 2026

# Planned Fellowships for EIC-FCC collaboration

---

- Working on setting up 2 Fellowships (post-doc level)
  - 1 based in US (BNL or JLab)
  - 1 based in Europe (CERN)
- Focus on topics common to EIC and FCC
- With significant stay period ( $\geq 3$  months/year) on other side of pond

# EIC Accelerator Collaboration

---

- EIC and FCC are the next generation of colliders
- Your input and ideas are essential
- We need your collaboration to realize the EIC