

# Institute for Research and Innovation in Software for High Energy Physics (IRIS-HEP)

## Computational and data science research to enable discoveries in fundamental physics

IRIS-HEP is a software institute funded by the National Science Foundation. It aims to develop the state-of-the-art software cyberinfrastructure required for the challenges of data intensive scientific research at the High Luminosity Large Hadron Collider (HL-LHC) at CERN, and other planned HEP experiments of the 2020's. These facilities are discovery machines which aim to understand the fundamental building blocks of nature and their interactions. [Full Overview](#)





# IRIS-HEP Steering Board Meeting #23

G. Watts

For the IRIS-HEP Executive Board

2025-01-14



Happy New Year!

“The IRIS-HEP Steering Board represents the Institute’s stakeholders to provide, to the Executive Board, the stakeholder’s input on the priorities, execution, and strategy of the Institute.”



# Thank You

Liz Sexton-Kennedy (FNAL)  
CMS

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Paolo Calafiura (LBL)  
US ATLAS Ops Program

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Simone Campana (CERN)  
WLCG

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David South (DESY)  
ATLAS

Tulika Bose (U Wisconsin)  
US CMS Ops Program

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Patrick Koppenburg (NIKHEF)  
LHCb

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Graeme Stewart (CERN)  
HSF

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Ken Herner (FNAL)  
The OSG Council



# Welcome

[steering-board@iris-hep.org](mailto:steering-board@iris-hep.org)

(you)

[exec-board@iris-hep.org](mailto:exec-board@iris-hep.org)

(us)



# Next Meeting Dates

## Proposed Meeting Dates

May 20, 2025

July 15, 2025

October 7, 2025

January 13, 2026

We will send around an email shortly so everyone can check!



# 18-Month IRIS-HEP v2 Review

This is one of the major reviews for IRIS-HEP by the National Science Foundation.

- April 24-25, Madison Wisconsin
- Full scope of the IRIS-HEP program is covered
- Besides “us” managers giving talks, we will have presentations by post-docs, and posters by students.
- We will use some of the comments from the ATLAS/CMS talks today and LHCb and HSF talks next time in this review
  - Helps tune up are strategic vision for the next several years.
  - **Thank you very much for taking the time.**



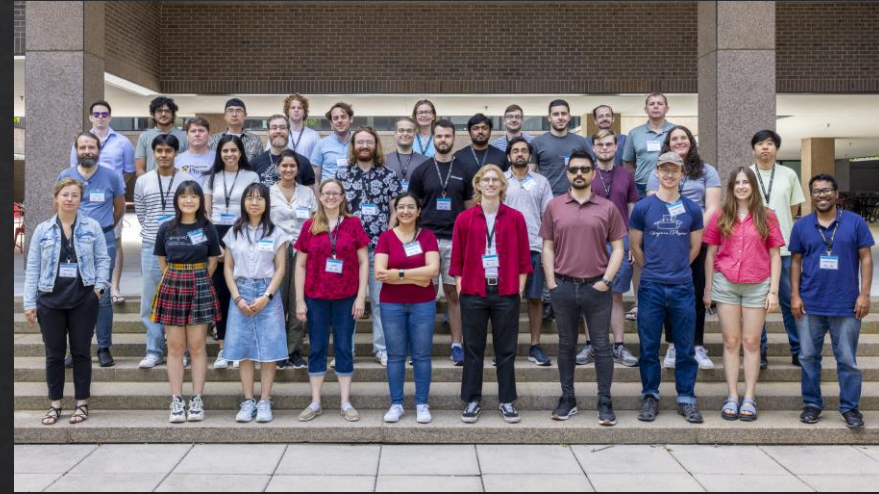
Last Time!

# US OPS Training

US-ATLAS (Seattle)



US-CMS (Princeton)



- 2 Days of training post-summer meeting agenda.
- 30 at [US ATLAS](#), 37 at [US CMS](#)
- Topics included Columnar analysis, Distributed analysis, Data Visualization, Coffea, Analysis Facilities, and Statistical Tools.

- Students did not have to pay for the flight for the summer meetings on their grant's dime.
- IRIS-HEP paid for graduate students (and some undergrads) attending: \$750 for flights, lodging for the training, meals.



# US OPS Training

Both OPS programs would like us to repeat this year.

	Dates	Training Dates
US ATLAS, UMichigan	July 21-23	July 24-25
US CMS, Rice University	May 21-23	May 19-20

- Working with local organizers to finalize training events organization
  - Rooms for students, room for training, catering, dinner, etc.
- We will do the same travel deal as we did previously
  - Up to \$750 for flights to attend from the USA
  - Accommodation for the training days
- Will give graduate students training on tools and analysis and reduce per-grant costs for summer meeting attendance.





# IRIS-HEP Sponsorship

- Software/Computing: “LHC to Future Colliders” Ecosystem workshop
  - spring 2025 TBD, probably at Princeton
- USCMS/IRIS-HEP 2025
  - 19-20 May 2025 (at RiceU, USCMS itself is 21-23 May 2025)
- MODE Workshop (differentiable programming)
  - 9-13 June 2025 (Crete)
- HSF-India Bangalore (16-22 Jun 2025)
- USATLAS/IRIS-HEP 2025
  - 24-25 July 2025 (at U.Michigan)
- CoDaS-HEP 2025
  - 21-25 July 2025, at Princeton
- JuliaHEP 2025
  - 28-31 July, 2025, at Princeton
- IRIS-HEP Retreat Sep or Oct 2025 TBD, at or near CERN likely
- Connecting the Dots 2025
  - will be in Fall 2025, at UTokyo (dates still TBD, soon)

We are quite active in both running and sponsoring various workshops

- “Intellectual Hub” effort
- Some of these we organize
- Some of them we provide significant help
- Some we sponsor directly
- Some we organize to send non-IRIS-HEP US participants to



# HL-LHC analysis blueprint

Benchmark analyses to demonstrate our workflows

- Benefits both facilities and tool developers in the community (and IRIS-HEP)
- Get away from “simplified” demos into something that is truly relevant to analyzers
  - We already are a long way down this road – but – we’d like to do better!

February Software & Computing Week(s)

- ALICE, ATLAS, CMS, LHCb are all meeting the first week of February at CERN.
- Joint meetings between ATLAS and CMS already planned
  - e.g. One session motivated by the LHCC Analysis Facilities questions (3c/3a).

Can we carry this conversation further?

- Input from the LHCC drafts
- Survey circulated inside the experiments
- Meeting/2-day workshop in early March (Hybrid Zoom/CERN room)
  - Artifact: Report with Run 4+ Analysis assumptions, and some benchmark analyses, and some idea of future collaboration possibilities.
  - Discussion guided by survey responses (“lightning talks”) and more regular experiment contributors



# Questions & Comments?

