



## 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](#)

The IRIS-HEP project was funded on 1 September, 2018

G. Watts, IRIS-HEP Steering Board Meeting #19



# IRIS-HEP Steering Board Meeting #19

G. Watts

For the IRIS-HEP Executive Board

2024-01-16

“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 (CERN)  
CMS

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Paolo Calafiura (LBNL)  
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

Tentative Dates – please let us know:

April 7, 2024

July 2, 2024

Oct 1, 2024

Jan 14, 2025

(did consult the HSF Community Calendar)



# (Very) Quick Updates

## 1 IRIS-HEP Summer Fellows

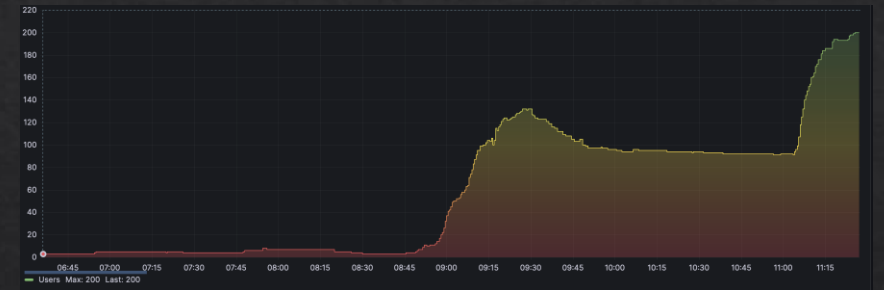
- The call for projects and mentors will go out shortly.
- We can support a number of undergraduate summer students
- If you know someone that has a project that aligns with IRIS-HEP – please have them get in touch!
- Projects will appear [here](#) as we collect them.


## 2 US ATLAS & US CMS Summer Meetings

- IRIS-HEP will host a 2-day training event at each summer meeting (Seattle, Princeton)
- Funds to help get students out to the meeting
- Should also help reduce overall costs for students attending.

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## 3 SSL, Local Binder, and Training Events



- That is almost 220 [instances of binder-hub](#) running on UChicago's IRIS-HEP SSL infrastructure
- We used some very large container images and GPU's for some of the training
- Seems perfect for an experiment's training events
  - Instructor provided environment
  - JupyterHub and bash terminal
  - Available by web (low-bandwidth) <sup>6</sup> 
- We should find a way to keep for self-paced tutorials.

# Today

## Analysis Facilities

Please use the google doc linked to the agenda to add comments or make any notes you want us to track!

### IRIS-HEP Steering Board Meeting #19

Tuesday 16 Jan 2024, 18:00 → 20:20 Europe/Zurich

Zoom

Description [Live Minutes Can Be Found Here](#). Please Help Out!

Zoom link distributed by email

|   |         |                                    |       |   |
|---|---------|------------------------------------|-------|---|
| 18:00   | → 18:20 | <b>Introduction</b>                | ⌚ 20m | ✎ |
| <b>Speakers:</b> Brian Paul Bockelman (University of Wisconsin Madison (US)), Gordon Watts (University of Washington (US)), Peter Elmer (Princeton University (US)) |         |                                    |       |   |
| 18:20   | → 18:35 | <b>CMS - AF Plans and Vision</b>   | ⌚ 15m | ✎ |
| <b>Speaker:</b> Dirk Hufnagel (Fermi National Accelerator Lab. (US))  |         |                                    |       |   |
| 18:35   | → 18:50 | <b>ATLAS - AF Plans and Vision</b> | ⌚ 15m | ✎ |
| <b>Speaker:</b> David South (Deutsches Elektronen-Synchrotron (DE))   |         |                                    |       |   |
| 18:50   | → 19:05 | <b>LHCb AF Plans and Vision</b>    | ⌚ 15m | ✎ |
| 19:05   | → 19:20 | <b>HSF AF Plans and Vision</b>     | ⌚ 15m | ✎ |
| 19:20   | → 19:40 | <b>Discussion</b>                  | ⌚ 20m | ✎ |



# Analysis Facilities

Great deal of interest in the field

- Experiments have discussed the topic extensively internally
- Experiments have various R&D efforts
- HSF has a forum and produced a white paper
- IRIS-HEP has R&D activities based around AFs (coffee-casa, for example)



*But for all this activity we have not really found a way to work together as a community*





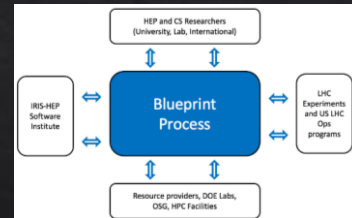


# Open Questions

- Do we want a community?
- Who should be in that community?
- What is the goal and role of the community we build?
- Where should we pull the leaders from?

Today: Discover some way forward  
we are all interested in making work.

If some meetings are required,  
we have funds to make them  
happen.



For example:

- Bringing physicists and computing experts together to decide on what a benchmark HL-LHC analysis.
- Bringing a group together to build consensus on a white paper for future R&D.
- Supplement an HSF AF meeting.



# Questions & Comments?

