

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





IRIS-HEP Steering Board Meeting #20

G. Watts

For the IRIS-HEP Executive Board 2024-01-16



Thank You

Liz Sexton-Kennedy (CERN) CMS

Paolo Calafiura (LBL)
US ATLAS Ops Program

Simone Campana (CERN) WLCG

David South (DESY) ATLAS

Tulika Bose (U Wisconsin) US CMS Ops Program

Patrick Koppenburg (NIKHEF) LHCb

Graeme Stewart (CERN) HSF

Ken Herner (FNAL)
The OSG Council



Welcome

steering-board@iris-hep.org (you)

exec-board@iris-hep.org
(us)



Next Meeting Dates

July 2, 2024 Oct 1, 2024 Jan 14, 2025



Innovative Algorithm Leadership



(continuing)



David Lange (Princeton) Louis-Guillaume Gagnon (Berkeley) Welcome!!



Heather Gray (UC Berkeley) Many thanks for the last 6 years!



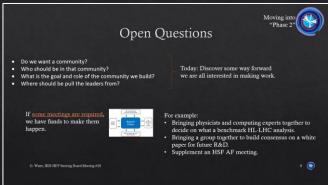
The Analysis Facilities Conversation

Since last time we met...

- The HSF White Paper on Analysis Facilities has been released
 - Archive: 2404.02100
- LHCC has asked the LHC experiments to help it build a *blueprint* for Analysis Facilities
 - Step 1: Build a list of questions, to be curated by the WLCG/LHCC
 - Step 2: Answer the questions
- The <u>WLCG/HSF workshop May 13-24</u>
 - Question input for LHCC due
 - Thursday afternoon is devoted to Analysis Facility Discussion

From SB#19





Community Involvement

Full Team Retreat

- Seattle.
- September 4-6
- All SB members are invited

US LHC/IRIS-HEP Summer Meeting Training

- US CMS/IRIS-HEP, Princeton, 21-22 June
- US ATLAS/IRIS-HEP, Seattle, 18-19 July

CODAS-HEP Training Event

- Application period closed
- Princeton, July 22-26
- Had 77 applicants this year!

We are co-sponsoring...

PvHEP.dev

- Aachen
- Aug 26-30

MODE Workshop

- Valencia
- Sept 23-25

Recent Highlights...

Joint k8s hackathon

- Chicago
- April 24-26

Workflow languages for HEP

- CERN
- Apr 3-5

A1so

- ACAT 2024
- Training on Analysis Pipelines
- pyhf Workshop
- AGC Demo Day <u>1</u>, <u>2</u>, <u>3</u>





A few other things

GNN Tracking: High Pileup Particle Tracking

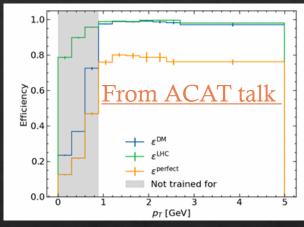
Awkward Array and Uproot

are now part of the Scientific Python's Package Index

- Recognition outside of HEP
- Several talks and tutorials will be given on tools from IRIS-HEP at the SciPy (Scientific Python) conference in Tacoma in July.

Fellows and More:

- We now have a small post-bac program running at CERN (5 students)
- We are matching Summer 2024 fellows to projects
- HSF-India is another source of fellows, post-bacs, and sponsorship of s1-3 month research visits



(tracks emerge as clusters in latent space)

IMPRESS-U Funding

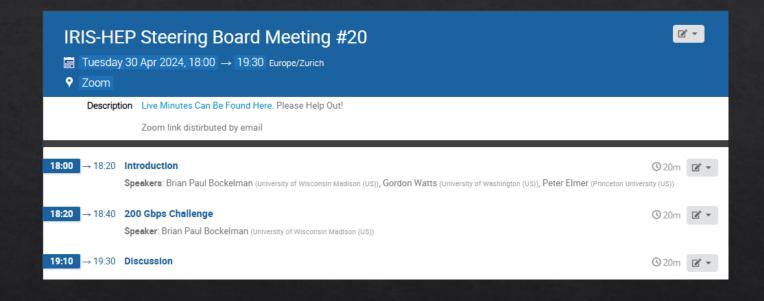
- Collaboration/funding for Ukraine, Lithuania, Poland
- Continuing with <u>QuarkNet</u> collaboration to offer additional training

Today

DOMA

- Recent News
- 200 Gbps Challenge

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



Questions & Comments?

