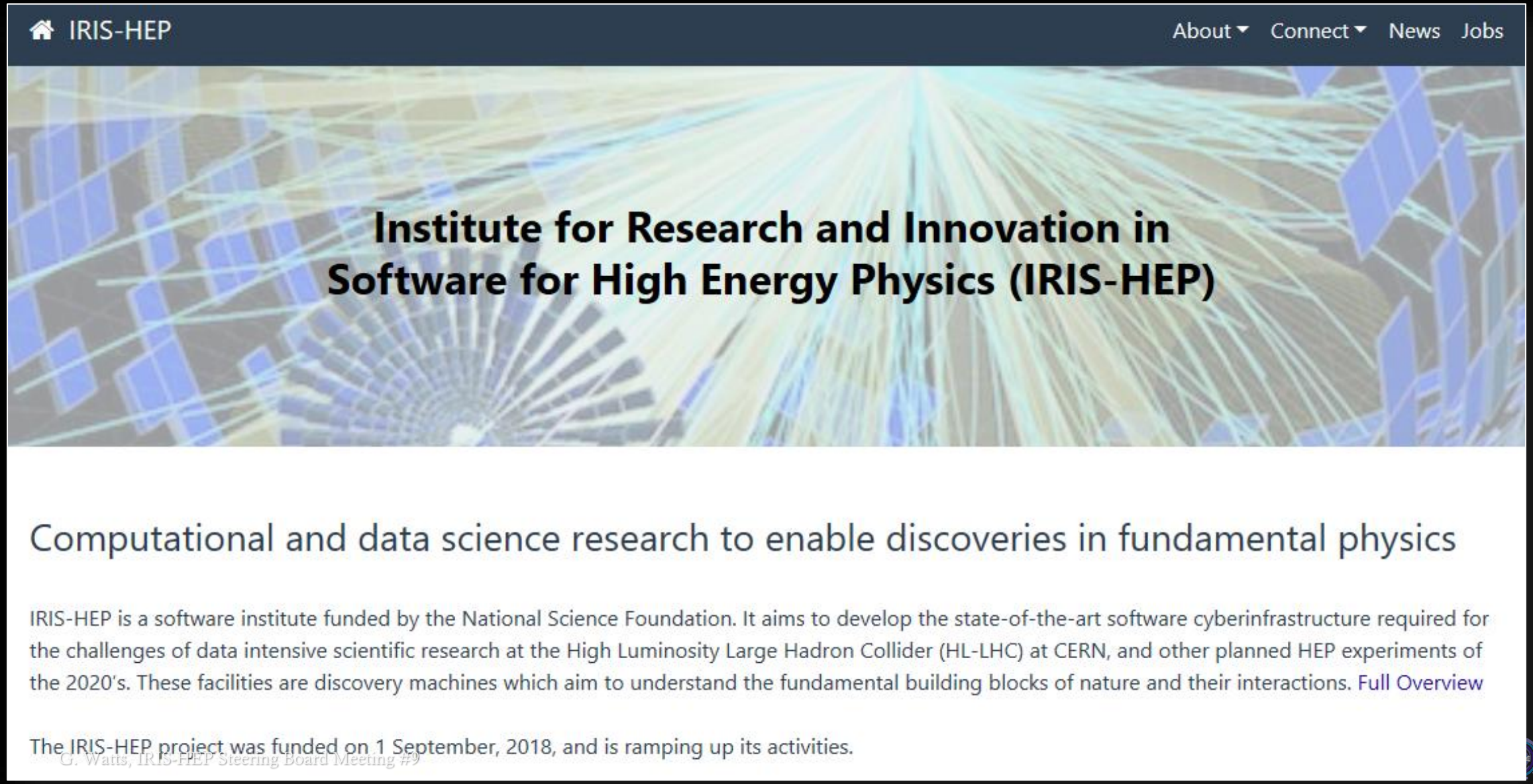
IRIS-HEP
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Institute for Research and Innovation in Software for High Energy Physics (IRIS-HEP)
Computational and data science research to enable discoveries in fundamental physics
IRIS-HEP is a software institute funded by the National Science Foundation. 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, and is ramping up its activities.

iris hep

Institute for Research & Innovation in Software for High Energy Physics

IRIS-HEP Steering Board Meeting #9

G. Watts

For the IRIS-HEP Executive Board

2021-02-16

"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

Danilo Piparo (CERN)
CMS

Paolo Calafiura (LBNL)
US ATLAS Ops Program

Simone Campana (CERN)
WLCG

Alessandro Di Girolamo (CERN)
ATLAS

Oliver Gutsche (FNAL)
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

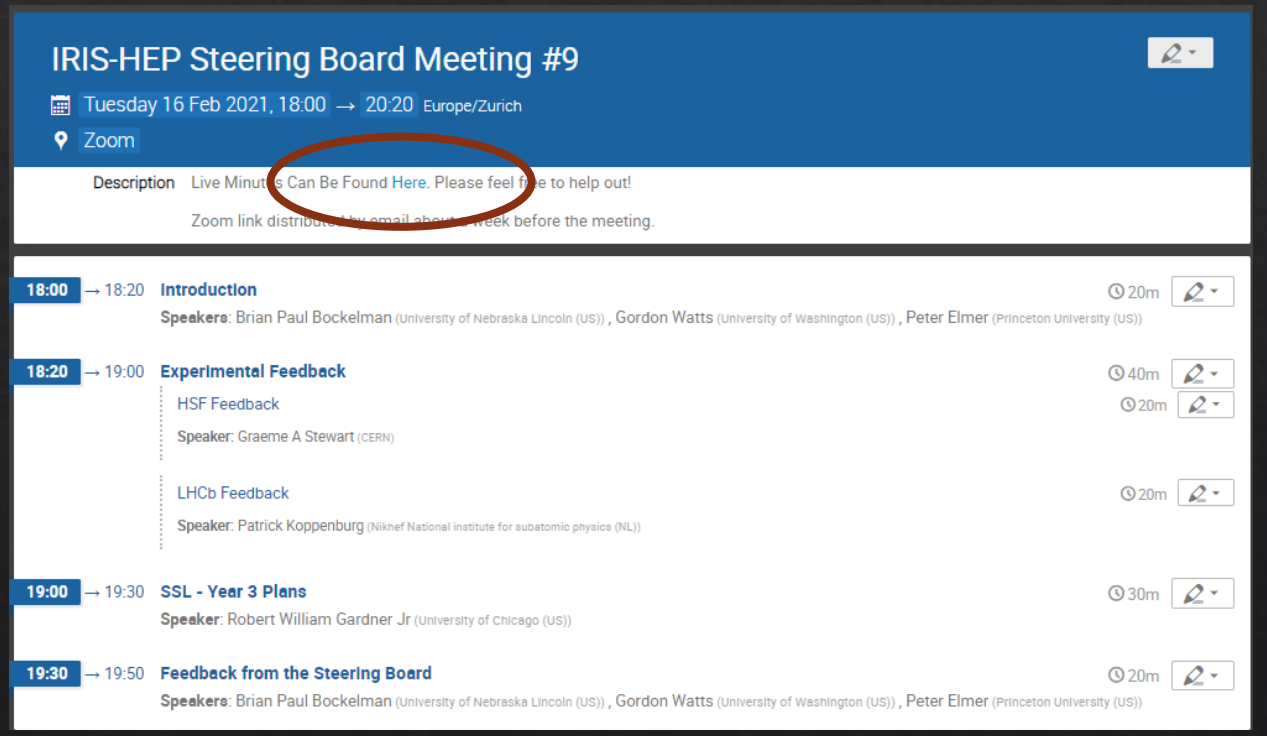
(us)

Next Meeting Dates

June 1, 2021
September 7, 2021
November 30, 2021
February 15, 2022

Today

- Feedback from HSF
- Feedback from LHCb
- Y3 Plans from SSL
- Discussion and AOB



IRIS-HEP Steering Board Meeting #9

Tuesday 16 Feb 2021, 18:00 → 20:20 Europe/Zurich

Zoom

Description Live Minutes Can Be Found Here. Please feel free to help out!

Zoom link distributed by email about a week before the meeting.

18:00 → 18:20 **Introduction** 20m

Speakers: Brian Paul Bockelman (University of Nebraska Lincoln (US)), Gordon Watts (University of Washington (US)), Peter Elmer (Princeton University (US))

18:20 → 19:00 **Experimental Feedback** 40m

HSF Feedback 20m

Speaker: Graeme A Stewart (CERN)

LHCb Feedback 20m

Speaker: Patrick Koppenburg (Nikhef National institute for subatomic physics (NL))

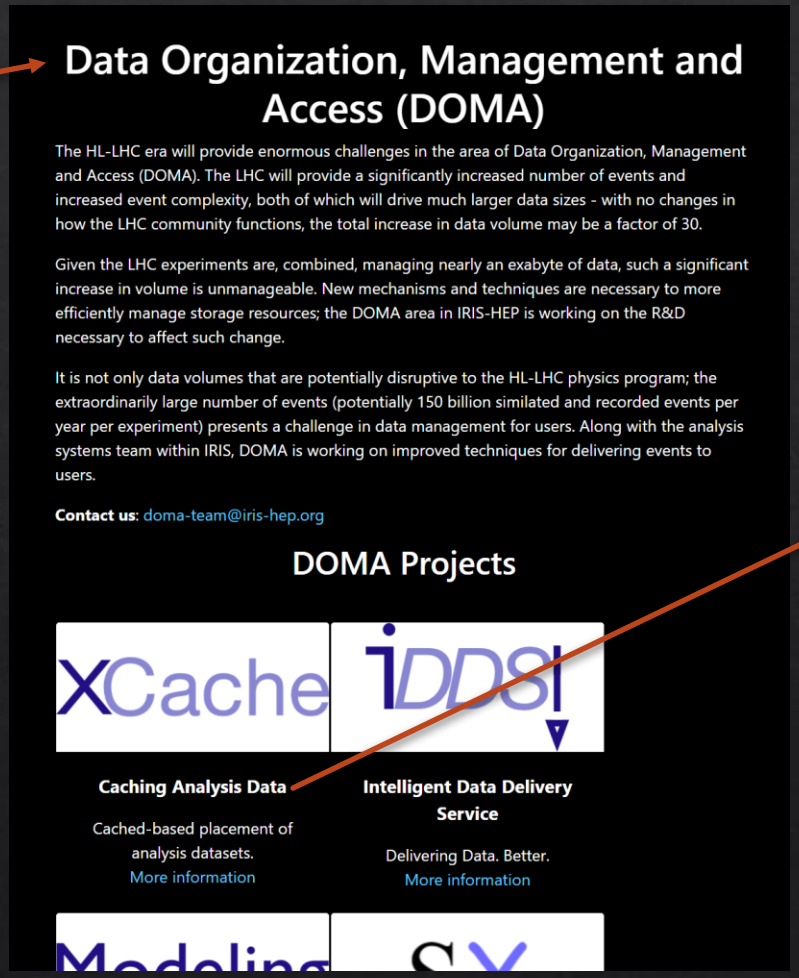
19:00 → 19:30 **SSL - Year 3 Plans** 30m

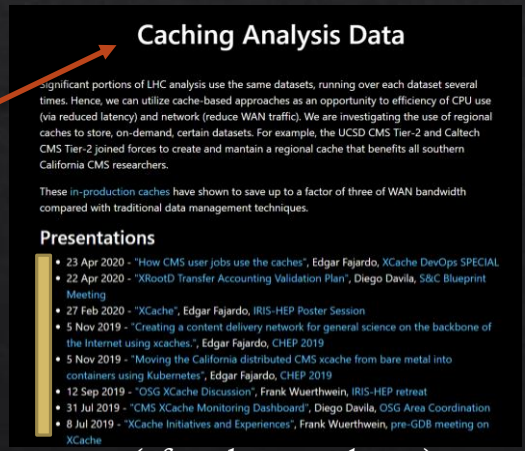
Speaker: Robert William Gardner Jr (University of Chicago (US))

19:30 → 19:50 **Feedback from the Steering Board** 20m

Speakers: Brian Paul Bockelman (University of Nebraska Lincoln (US)), Gordon Watts (University of Washington (US)), Peter Elmer (Princeton University (US))

Project Information





Per-project information is available on all IRIS-HEP projects.

(often, but not always)

IRIS-HEP Year 3

Some "dates" of interest

March/April/May	NSF Yearly Review
End of April/May/June	Yearly Retreat
June 1st	Steering Board Meeting #10
Late Spring/Summer	Year 4 Planning Process
Late Spring	Call for IRIS-HEP Fellows

We would like to do experiment feedback again (LHCb & HSF?)

COVID: Restructured Fellows Program II

- Room & Board for graduate student to visit IRIS-HEP institution
- Work with an expert
- Carry knowledge back to home institution
- Tuition not covered
- A small fraction of undergraduates

- Supply salary
- Mostly to support upper division undergraduates
- Modeled more along the lines of Google Summer of Code
- Made special effort to reach out beyond the normal recruitment lists

Thanks for your help in the last call: we had 25 people apply, and 16 have started!

Landing Page for GC

Grand Challenges

Global challenges to knit together disparate parts of the institute

Analysis Grand Challenge

The analyzer wants to optimize an analysis end-to-end for a targeted signal hypothesis (including systematics) on an HL-LHC sized dataset so that they can obtain sensitive observed results for that signal while still being able to later reinterpret the analysis for various signal hypotheses.

Minor updates in next slides…

Data Processing Grand Challenge

Process a year's worth of LHC data from both experiments

Minor updates in next slides…

Grand Challenges

Analysis Grand Challenge

- Understanding Systematic Errors
  - Taxonomy
  - How can we *not* produce 800 trees for all variations?
- Progress towards defining an analysis
  - Where can we get sufficient size data for a real analysis (Open Data) (~100's of TB)
  - Milestones for this quarter
- Analysis Facilities Blueprint Meeting
  - Report is in preparation
- 1 once/month meeting between US Ops Programs and IRIS-HEP

Data Grand Challenge

- Work continues in the context of the WLCG
- Updates at the next SB meeting

Action Items From SB#8

- Measuring Opportunistic Resource usage in the OSG (DONE)
  - Two meetings connecting ATLAS and CMS have occurred
  - Ongoing: OSG is publishing more information. CMS has progress. ATLAS knows about the information.
- Mini-Workshop discussing end-to-end reconstruction (DONE)
  - Urge forming discussions at various conferences (vCHEP). IRIS-HEP will re-evaluate role in a year
- IRIS-HEP work with pyarrow (SkyHookDM)
  - Overlap with HEP-CCE/IOS group. Schedule topical meetings (IN PROGRESS)
  - Make sure HEP-CCE gets an invite to IRIS-HEP All-Hands meeting (IN PROGRESS)
  - Overlap with Innovative Algorithms (tracking/ACTS as demo for GPU porting) – connect the groups (DONE)
- US Operations Postdocs – Schedule topical meetings to build community, publicize information, form for discussion
  - See here for already scheduled talks(look for HL-LHC R&D topics tag) (DONE)

Questions? Comments?