

# **Workshop on workflow languages for HEP analysis**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Workshop Introduction

*Wednesday 3 April 2024 10:00 (20 minutes)*

**Presenter:** FEICKERT, Matthew (University of Wisconsin Madison (US))

**Session Classification:** Session

Contribution ID: 2

Type: **not specified**

## Snakemake Overview

*Wednesday 3 April 2024 10:20 (50 minutes)*

**Presenter:** KÖSTER, Johannes

**Session Classification:** Session

Contribution ID: 3

Type: **not specified**

## **CWL Overview**

*Wednesday 3 April 2024 11:10 (50 minutes)*

**Presenter:** CRUSOE, Michael (Common Workflow Language project / Zuse Institute Berlin)

**Session Classification:** Session

Contribution ID: 4

Type: **not specified**

## **Airflow and Nextflow Overview**

*Wednesday 3 April 2024 14:50 (50 minutes)*

**Presenter:** JOHNSON, Erik (Radiation Monitoring Devices)

**Session Classification:** Session

Contribution ID: 5

Type: **not specified**

## Coffee Break

*Wednesday 3 April 2024 16:10 (20 minutes)*

**Session Classification:** Session

Contribution ID: 6

Type: **not specified**

## Discussion and Demos

*Wednesday 3 April 2024 16:30 (1h 30m)*

- Have a focus on discussion around th technology choices and possible benefits
- Focus on having demonstration time with the developers on infrastructure we have available (IRIS-HEP cluster and CERN)

**Presenters:** HEINRICH, Lukas Alexander (Technische Universitat Munchen (DE)); FEICKERT, Matthew (University of Wisconsin Madison (US))

**Session Classification:** Session

Contribution ID: 7

Type: **not specified**

## **CWL in the HPC ecosystem**

*Wednesday 3 April 2024 14:00 (50 minutes)*

**Presenter:** COLONNELLI, Iacopo (Universita e INFN Torino (IT))

**Session Classification:** Session



Contribution ID: 8

Type: **not specified**

## Session Overview

*Thursday 4 April 2024 10:00 (10 minutes)*

**Presenters:** LANGE, Clemens (Paul Scherrer Institute (CH)); GOODING, Jamie (Technische Universitaet Dortmund (DE))

**Session Classification:** Session

Contribution ID: 9

Type: **not specified**

## **RECAST workflows in ATLAS SUSY**

*Thursday 4 April 2024 10:10 (40 minutes)*

**Presenter:** HODKINSON, Ben (University of Oxford (GB))

**Session Classification:** Session

Contribution ID: **10**

Type: **not specified**

## Snakemake Workflows in LHCb

*Thursday 4 April 2024 10:50 (40 minutes)*

**Presenters:** SARPIS, Mindaugas (University of Manchester (GB)); LUKASHENKO, Valeriia (University of Zurich (CH))

**Session Classification:** Session

Contribution ID: 11

Type: **not specified**

## **Luigi/Law Workflows in CMS**

*Thursday 4 April 2024 14:00 (40 minutes)*

**Presenter:** RIEGER, Marcel (Hamburg University (DE))

**Session Classification:** Session

Contribution ID: 12

Type: **not specified**

## Coffee Break

*Thursday 4 April 2024 15:10 (20 minutes)*

**Presenter:** FEICKERT, Matthew (University of Wisconsin Madison (US))

**Session Classification:** Session

Contribution ID: 13

Type: **not specified**

## HEP-CCE

*Thursday 4 April 2024 14:40 (30 minutes)*

**Presenter:** Dr LEGGETT, Charles (Lawrence Berkeley National Lab (US))

**Session Classification:** Session

Contribution ID: 14

Type: **not specified**

# **FAST-HEP: Confronting the Challenges of Developing a Workflow Language for HEP Analysis**

*Thursday 4 April 2024 15:30 (30 minutes)*

**Presenter:** Dr KRECZKO, Luke (University of Bristol (GB))

**Session Classification:** Session

Contribution ID: 15

Type: **not specified**

## Discussion and Demos

*Thursday 4 April 2024 16:00 (2 hours)*

- focus on physics application discussion
- feedback from the workflow dev side
- iteration discussion

**Presenters:** LANGE, Clemens (Paul Scherrer Institute (CH)); GOODING, Jamie (Technische Universitaet Dortmund (DE))

**Session Classification:** Session



Contribution ID: 16

Type: **not specified**

## Session Overview

*Friday 5 April 2024 10:00 (10 minutes)*

**Presenter:** LANGE, Clemens (Paul Scherrer Institute (CH))

**Session Classification:** Session

Contribution ID: 17

Type: **not specified**

## RECAST Evolution

**Presenter:** FEICKERT, Matthew (University of Wisconsin Madison (US))

**Session Classification:** Session

Contribution ID: **18**

Type: **not specified**

## **REANA Overview and Demo**

*Friday 5 April 2024 10:10 (50 minutes)*

**Presenter:** SIMKO, Tibor (CERN)

**Session Classification:** Session

Contribution ID: **19**

Type: **not specified**

## **REANA for IRIS-HEP AGC**

*Friday 5 April 2024 11:00 (30 minutes)*

**Presenter:** POVSTEN, Andrii (Princeton University (US))

**Session Classification:** Session

Contribution ID: 20

Type: **not specified**

## Discussion: Workflow Adoption Roadmaps

*Friday 5 April 2024 14:00 (40 minutes)*

**Presenters:** LANGE, Clemens (Paul Scherrer Institute (CH)); GOODING, Jamie (Technische Universitaet Dortmund (DE)); HEINRICH, Lukas Alexander (Technische Universitat Munchen (DE)); FEICKERT, Matthew (University of Wisconsin Madison (US))

**Session Classification:** Session

Contribution ID: 21

Type: **not specified**

## Discussion: Workflow Adoption Challenges

*Friday 5 April 2024 14:40 (40 minutes)*

**Presenters:** LANGE, Clemens (Paul Scherrer Institute (CH)); GOODING, Jamie (Technische Universitaet Dortmund (DE)); HEINRICH, Lukas Alexander (Technische Universitat Munchen (DE)); FEICKERT, Matthew (University of Wisconsin Madison (US))

**Session Classification:** Session

Contribution ID: 22

Type: **not specified**

## Coffee Break

*Friday 5 April 2024 15:20 (20 minutes)*

**Presenter:** FEICKERT, Matthew (University of Wisconsin Madison (US))

**Session Classification:** Session

Contribution ID: 23

Type: **not specified**

## Discussion and Document Writing

*Friday 5 April 2024 15:40 (1 hour)*

**Presenters:** LANGE, Clemens (Paul Scherrer Institute (CH)); GOODING, Jamie (Technische Universitaet Dortmund (DE)); HEINRICH, Lukas Alexander (Technische Universitat Munchen (DE)); FEICKERT, Matthew (University of Wisconsin Madison (US))

**Session Classification:** Session



Contribution ID: 24

Type: **not specified**

## **Airflow Overview**

*Wednesday 3 April 2024 15:40 (30 minutes)*

**Presenter:** Ms TULLI, Santona (University of California Davis (US))

**Session Classification:** Session