

## **Session Program**

**17-21 Nov 2025**



## **ROOT Users Workshop 2025**

### ***Morning Session II***

# Monday 17 November

11:00

## Morning Session II: Reports from the LHC experiments

Session

11:00-11:30 **ALICE**

**Speaker**

Sandro Christian Wenzel

11:30-12:00 **ATLAS**

**Speakers**

Gordon Watts, Vincenzo Innocente

12:00-12:30 **CMS**

**Speaker**

Philippe Canal

12:30-13:00 **ROOT in the LHCb Software Framework - past, present and future**

**Speaker**

Marco Clemencic

13:00

# Tuesday 18 November

11:00

## Morning Session II: Analysis I

Session

**11:00-11:20 Overview of the current RDataFrame efforts**

**Speakers**

Marta Czurylo, Stephan Hageboeck, Dr Vincenzo Eduardo Padulano

**11:20-11:40**

**Benchmarking ROOT-Based Analysis Workflows for HL-LHC: The CMS INFN AF Use Case**

**Speaker**

Luca Pacioselli

**11:40-12:00 Discussion**

**12:00-12:20 Vibe Plotting: ServiceX, RDataFrame, and a LLM**

**Speaker**

Gordon Watts

**12:20-12:40**

**NDMSPC: Addressing THnSparse Challenges in High-Dimensional Analysis**

**Speaker**

Martin Vala

**12:40-13:00 Discussion**

13:00

# Wednesday 19 November

11:00

## Morning Session II: Analysis II

Session

11:00-11:20

### LHCb Data Analysis Towards Run 5: Challenges and Needs for ROOT

**Speaker**

Jiahui Zhuo

11:20-11:40

### Usage of EDM4hep datamodel in RDataFrame

**Speaker**

Juraj Smiesko

11:40-12:00

### Discussion

12:00-12:20

### CMS FlashSim and ROOT RDataFrame for ML-Based Event Simulation

**Speaker**

Filippo Cattafesta

12:20-12:40

### Analyzing HL-LHC heavy-ion collision data with ALICE

**Speaker**

Victor Gonzalez

12:40-13:00

### Discussion

13:00

# Thursday 20 November

11:00

## Morning Session II: I/O and Storage II

Session

11:00-11:20 **RNTuple advanced topics**

**Speaker**

Giacomo Parolini

11:20-11:40 **Future of ROOT I/O**

**Speaker**

Florine Willemijn de Geus

11:40-12:00 **Discussion**

12:00-12:20 **TDAnalyser - a modular framework for the analysis of test beam data**

**Speaker**

Laurent Forthomme

12:20-12:40 **The ROOT 7 Release Series**

**Speaker**

Stephan Hageboeck

12:40-13:00 **Discussion**

13:00

# Friday 21 November

11:00

## Morning Session II

Session

11:00-11:15

### JSRoot in Web Applications for High-Energy Physics: From Interactive Visualizations to Particle Transport Simulations

**Speaker**

Leszek Grzanka

11:15-11:30

### CARTopiaX: an Agent-Based Simulation of CAR T-Cell Therapy built with ROOT and BioDynaMo

**Speaker**

Salvador de la Torre Gonzalez

11:30-12:15

### Workshop discussions and closing

**Speaker**

Danilo Piparo

12:15