**Session Program**

**Nov 17 – 21, 2025**

# ROOT Users Workshop 2025

## *Afternoon session I*

# Mon, November 17

2:30 PM

## Afternoon session I

**Session**

2:30 – 2:45 PM **Software at CERN between 1980's and 2000**

**Speaker**
Rene Brun

2:45 – 3:00 PM **30 years of ROOT**

**Speaker**
Fons Rademakers

3:00 PM

3:00 PM

## Afternoon session I: Training

**Session**

3:00 – 4:30 PM **ROOT Training Session**

**Speakers**
Marta Czurylo, Silia Taider, Dr Vincenzo Eduardo Padulano

4:30 PM

# Tue, November 18

2:30 PM

## Afternoon session I: I/O and Storage I

**Session**

2:30 – 2:50 PM **ROOT I/O: Overview**

**Speaker**
Jakob Blomer

2:50 – 3:10 PM **A first look at RFile**

**Speaker**
Giacomo Parolini

3:10 – 3:30 PM **Discussion**

3:30 – 3:50 PM
**Performance Comparison of Lossless Compression Algorithms on CMS Data using ROOT TTree and RNTuple**

**Speaker**
Simone Rossi Tisbeni

3:50 – 4:10 PM
**User Story: Integration of ROOT RNTuple to CMSSW's SoA data structures**

**Speaker**
Markus Holzer

4:10 – 4:30 PM **Discussion**

4:30 PM

# Wed, November 19

2:30 PM

## Afternoon session I: Maths and Statistical interpretation I

**Session**

2:30 – 2:50 PM **Statistical Inference in HEP - An Overview**

**Speaker**
Jonas Eschle

2:50 – 3:10 PM **RooFit overview**

**Speaker**
Jonas Rembser

3:10 – 3:30 PM **Discussion**

3:30 – 3:50 PM **Efficient Parameter Inference with MoreFit**

**Speaker**
Christoph Michael Langenbruch

3:50 – 4:10 PM **High performance analysis in CMS**

**Speaker**
Josh Bendavid

4:10 – 4:30 PM **Discussion**

4:30 PM

# Thu, November 20

2:30 PM

## Afternoon session I: Maths and Statistical interpretation II

**Session**

2:30 – 2:50 PM

### Speeding up large-scale likelihood fits with Automatic Differentiation in RooFit

**Speaker**
Jonas Rembser

2:50 – 3:10 PM

### Highlights of xRooFit - The High-Level API for RooFit

**Speaker**
Will Buttinger

3:10 – 3:30 PM

### Discussion

3:30 – 3:50 PM

### Statistical inference in CMS with Combine

**Speaker**
Aliya Nigamova

3:50 – 4:10 PM

### Statistical Inference in ATLAS

**Speaker**
Tomas Dado

4:10 – 4:30 PM

### Discussion

4:30 PM