

ACTS Developers Workshop

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction + Useful Information

Tuesday, November 7, 2023 2:00 PM (10 minutes)

Presenter: ALLAIRE, Corentin (IJCLab, Université Paris-Saclay, CNRS/IN2P3)

Session Classification: Introduction

Contribution ID: 2

Type: **not specified**

Introduction

Tuesday, November 7, 2023 2:15 PM (45 minutes)

Presenter: SALZBURGER, Andreas (CERN)

Session Classification: Introduction

Contribution ID: 3

Type: **not specified**

ACTS Infrastructure: Tests, CI, tools

Wednesday, November 8, 2023 9:00 AM (20 minutes)

Presenter: GESSINGER, Paul (CERN)

Session Classification: Acts

Contribution ID: 4

Type: **not specified**

ATLAS ACTS infrastructure

Wednesday, November 8, 2023 9:25 AM (20 minutes)

Presenter: VARNI, Carlo (University of California Berkeley (US))

Session Classification: Acts

Contribution ID: 5

Type: **not specified**

Overview of the Acts' users

Tuesday, November 7, 2023 3:05 PM (20 minutes)

Presenter: SALZBURGER, Andreas (CERN)

Session Classification: Introduction

Contribution ID: 6

Type: **not specified**

Community software: Geant4

Tuesday, November 7, 2023 4:05 PM (20 minutes)

This is in an invited talk covering an insight on the structure and organization of Geant4 as one of the most commonly used software toolkits in HEP.

The aim of this talk is not to give an introduction or overview on Geant4 but rather spotlight how to deal with a multi-experiment user community in terms of organisation, testing, etc.

Presenter: VERDERI, Marc (Centre National de la Recherche Scientifique (FR))

Session Classification: Introduction

Contribution ID: 7

Type: **not specified**

Documentation

Wednesday, November 8, 2023 9:50 AM (20 minutes)

Presenter: GESSINGER, Paul (CERN)

Session Classification: Acts

Contribution ID: 8

Type: **not specified**

New geometry

Wednesday, November 8, 2023 4:20 PM (20 minutes)

Session Classification: Hackaton

Contribution ID: 9

Type: **not specified**

Geometry Model: Status and Plans

Thursday, November 9, 2023 11:00 AM (30 minutes)

Presenter: SALZBURGER, Andreas (CERN)

Session Classification: Acts

Contribution ID: **10**

Type: **not specified**

Alignment

Wednesday, November 8, 2023 4:40 PM (20 minutes)

Session Classification: Hackaton

Contribution ID: 11

Type: **not specified**

Geometry Model: detr

Thursday, November 9, 2023 11:30 AM (20 minutes)

Presenter: NIERMANN, Joana (Georg August Universitaet Goettingen (DE))

Session Classification: Acts

Contribution ID: 12

Type: **not specified**

Discussion: Geometry & Navigation

Thursday, November 9, 2023 11:50 AM (20 minutes)

Presenters: SALZBURGER, Andreas (CERN); STEFL, Andreas (Technische Universitaet Wien (AT)); NIERMANN, Joana (Georg August Universitaet Goettingen (DE))

Session Classification: Acts

Contribution ID: 13

Type: **not specified**

Future of the GPU R&D line

Wednesday, November 8, 2023 4:00 PM (20 minutes)

Session Classification: Hackaton

Contribution ID: 14

Type: **not specified**

Status of KF and CKF: ACTS Core

Thursday, November 9, 2023 9:00 AM (20 minutes)

Presenter: STEFL, Andreas (Technische Universitaet Wien (AT))

Session Classification: Acts

Contribution ID: 15

Type: **not specified**

Material in Acts

Thursday, November 9, 2023 2:00 PM (20 minutes)

Presenter: ALLAIRE, Corentin (IJCLab, Université Paris-Saclay, CNRS/IN2P3)

Session Classification: Acts

Contribution ID: 16

Type: **not specified**

Status of KF and CKF: traccc

Thursday, November 9, 2023 9:25 AM (20 minutes)

Presenter: YEO, Beomki (University of California Berkeley (US))

Session Classification: Acts

Contribution ID: 17

Type: **not specified**

Status of GSF: ACTS Core

Thursday, November 9, 2023 9:50 AM (20 minutes)

Presenter: HUTH, Benjamin

Session Classification: Acts

Contribution ID: 18

Type: **not specified**

Status of GX2F: ACTS Core

Thursday, November 9, 2023 10:15 AM (20 minutes)

Presenter: PFLEGER, Alexander J (University of Graz (AT))

Session Classification: Acts

Contribution ID: 19

Type: **not specified**

Massively Parallel Clustering

Thursday, November 9, 2023 4:00 PM (20 minutes)

Presenter: SWATMAN, Stephen Nicholas (University of Amsterdam (NL))

Session Classification: Acts

Contribution ID: 20

Type: **not specified**

Discussion: What to do with FATRAS

Thursday, November 9, 2023 4:40 PM (20 minutes)

Presenter: SALZBURGER, Andreas (CERN)

Session Classification: Acts

Contribution ID: 21

Type: **not specified**

NN Calibrator

Thursday, November 9, 2023 4:20 PM (20 minutes)

Presenter: GAGNON, Louis-Guillaume (University of California Berkeley (US))

Session Classification: Acts

Contribution ID: 22

Type: **not specified**

Vertexing with timing

Thursday, November 9, 2023 2:20 PM (20 minutes)

Presenter: RUSSO, Felix (Vienna University of Technology (AT))

Session Classification: Acts

Contribution ID: 23

Type: **not specified**

Seeding CPU & GPU

Thursday, November 9, 2023 2:40 PM (20 minutes)

Presenter: FALDA COELHO, Luis (CERN)

Session Classification: Acts

Contribution ID: 24

Type: **not specified**

ML and seeding

Thursday, November 9, 2023 3:00 PM (20 minutes)

Presenter: ALLAIRE, Corentin (IJCLab, Université Paris-Saclay, CNRS/IN2P3)

Session Classification: Acts

Contribution ID: 25

Type: **not specified**

Seeding, tracking, flavor tagging with time

Session Classification: Acts

Contribution ID: 26

Type: **not specified**

Discussion: Project Structure and Governance

Wednesday, November 8, 2023 2:00 PM (30 minutes)

Presenter: SALZBURGER, Andreas (CERN)

Session Classification: Hackaton

Contribution ID: 27

Type: **not specified**

ACTS as a Service

Wednesday, November 8, 2023 11:30 AM (15 minutes)

Presenter: CHOU, Yuan-Tang (University of Washington (US))

Session Classification: Acts

Contribution ID: 28

Type: **not specified**

Future development prospects

Wednesday, November 8, 2023 11:00 AM (20 minutes)

Presenter: CALACE, Noemi (CERN)

Session Classification: Acts

Contribution ID: 29

Type: **not specified**

Introduction

Friday, November 10, 2023 9:00 AM (10 minutes)

Session Classification: Feedback from Experiments

Contribution ID: **30**

Type: **not specified**

ATLAS

Friday, November 10, 2023 9:10 AM (15 minutes)

Presenter: YAMAZAKI, Tomohiro (Lawrence Berkeley National Lab. (US))

Session Classification: Feedback from Experiments

Contribution ID: **31**

Type: **not specified**

ALICE

Friday, November 10, 2023 9:30 AM (15 minutes)

Presenter: LARIONOV, Pavel (CERN)

Session Classification: Feedback from Experiments

Contribution ID: 32

Type: **not specified**

sPHENIX

Friday, November 10, 2023 2:25 PM (15 minutes)

Presenter: OSBORN, Joe (Brookhaven National Laboratory)

Session Classification: Feedback from Experiments

Contribution ID: 33

Type: **not specified**

FASER

Friday, November 10, 2023 10:40 AM (15 minutes)

Presenter: LI, Ke (University of Washington (US))

Session Classification: Feedback from Experiments

Contribution ID: 34

Type: **not specified**

NA60+

Friday, November 10, 2023 1:05 PM (15 minutes)

Presenter: ARNALDI, Roberta (Universita e INFN Torino (IT))

Session Classification: Feedback from Experiments

Contribution ID: 35

Type: **not specified**

CEPC and STCF

Friday, November 10, 2023 10:25 AM (15 minutes)

Presenter: AI, Xiaocong (Zhengzhou University)

Session Classification: Feedback from Experiments

Contribution ID: **36**

Type: **not specified**

ePIC

Friday, November 10, 2023 2:05 PM (15 minutes)

Presenter: SCHMOOKLER, Barak (Lawrence Berkeley Laboratory)

Session Classification: Feedback from Experiments

Contribution ID: 37

Type: **not specified**

LDMX

Friday, November 10, 2023 1:25 PM (15 minutes)

Presenter: BUTTI, Pierfrancesco (SLAC National Accelerator Laboratory (US))

Session Classification: Feedback from Experiments

Contribution ID: **38**

Type: **not specified**

Whitepaper proposal

Wednesday, November 8, 2023 10:10 AM (15 minutes)

Presenter: RUSSO, Felix (Vienna University of Technology (AT))

Session Classification: Acts

Contribution ID: 39

Type: **not specified**

Lohengrin

Friday, November 10, 2023 1:45 PM (15 minutes)

Presenter: HEINRICHS, Jan-Eric (University of Bonn (DE))

Session Classification: Feedback from Experiments

Contribution ID: 40

Type: **not specified**

Acts as a Service

Wednesday, November 8, 2023 2:50 PM (20 minutes)

Presenters: ZHAO, Haoran (University of Washington (US)); CHOU, Yuan-Tang (University of Washington (US))

Session Classification: Hackaton

Contribution ID: 41

Type: **not specified**

Final words from the organisers

Friday, November 10, 2023 4:00 PM (20 minutes)

Presenter: ALLAIRE, Corentin (IJCLab, Université Paris-Saclay, CNRS/IN2P3)

Session Classification: Feedback from Experiments