# FCC-ee Workshop on Particle Flow Reconstruction


# Report of Contributions

https://indico.cern.ch/e/1567387

Contribution ID: **1** Type: **not specified**

# The Particle Flow approach

*Monday 1 September 2025 09:05 (1 hour)*

**Presenter:** JANOT, Patrick (CERN)

**Session Classification:** Introduction

Contribution ID: **2** Type: **not specified**

# Detector Concepts: CLD

*Monday 1 September 2025 10:55 (20 minutes)*

**Presenter:** REICHENBACH, Leonhard (University of Bonn (DE))

**Session Classification:** Introduction

Contribution ID: **3** Type: **not specified**

# Detector Concepts: ALLEGRO

*Monday 1 September 2025 11:35 (20 minutes)*

**Presenter:** FRANCOIS, Brieuc (CERN)

**Session Classification:** Introduction

Contribution ID: **4** Type: **not specified**

# Detector Concepts: IDEA

*Monday 1 September 2025 11:55 (20 minutes)*

**Presenter:** VIVARELLI, Iacopo (Universita e INFN, Bologna (IT))

**Session Classification:** Introduction

Contribution ID: **5** Type: **not specified**

# Overview of Pandora and historical context

*Monday 1 September 2025 10:05 (30 minutes)*

**Presenter:** THOMSON, Mark (CERN)

**Session Classification:** Introduction

Contribution ID: **6** Type: **not specified**

# Pandora SDK

*Monday 1 September 2025 13:45 (30 minutes)*

**Presenters:** CHAPPELL, Andrew (University of Warwick (GB)); MARSHALL, John Stuart (University of Warwick (GB))

**Session Classification:** Pandora

Contribution ID: **7** Type: **not specified**

# Overview of the LCContent library

*Monday 1 September 2025 14:15 (1 hour)*

LCContent contains algorithms that were implemented for the linear collider experiments. The development has not continued in the recent years.

**Presenter:** MARSHALL, John Stuart (University of Warwick (GB))

**Session Classification:** Pandora

Contribution ID: **8** Type: **not specified**

# Overview of LArContent library

*Monday 1 September 2025 15:30 (1 hour)*

LArContent library is used in the neutrino's experiments.
It represents the more modern developments.

**Presenter:** CHAPPELL, Andrew (University of Warwick (GB))

**Session Classification:** Pandora

Contribution ID: **9** Type: **not specified**

# Discussion

*Monday 1 September 2025 16:30 (1 hour)*

LCContent: how do we continue to develop it?
LCContent: management of the git repository, how can FCC-ee or key4hep mainainers take more active role?
What are the ideas on how to continue with the LCContent?
What is the start point for the new detector concepts that are far from ILD/CLICdp?

**Session Classification:** Pandora

Contribution ID: **10** Type: **not specified**

# Experience with Pandora for CLD

*Tuesday 2 September 2025 09:00 (45 minutes)*

**Session Classification:** Pandora

Contribution ID: **11** Type: **not specified**

# Experience with Pandora for ALLEGRO

*Tuesday 2 September 2025 09:45 (45 minutes)*

**Session Classification:** Pandora

Contribution ID: **12** Type: **not specified**

# Experience with Pandora for IDEA

*Tuesday 2 September 2025 10:50 (45 minutes)*

**Session Classification:** Pandora

Contribution ID: **13** Type: **not specified**

# Discussion

*Tuesday 2 September 2025 11:35 (25 minutes)*

What do we think should work (or not) for those detectors?
How to continue using Pandora?

**Session Classification:** Pandora

Contribution ID: **14** Type: **not specified**

# Pandora @ key4hep

*Tuesday 2 September 2025 13:30 (30 minutes)*

How does it work now,
plan for future.

**Session Classification:** Pandora

Contribution ID: **15** Type: **not specified**

# Debugging Pandora

*Tuesday 2 September 2025 14:00 (1 hour)*

PandoraMonitoring
other tools ?

**Session Classification:** Pandora

Contribution ID: **16** Type: **not specified**

# Discussion

*Tuesday 2 September 2025 15:00 (30 minutes)*

How to use best debugging tools in Pandora @ FCC?

**Session Classification:** Pandora

Contribution ID: **17** Type: **not specified**

# Overview of Particle-Flow in ATLAS

*Wednesday 3 September 2025 09:00 (30 minutes)*

**Session Classification:** Particle Flow approaches

Contribution ID: **18** Type: **not specified**

# Overview of Particle-Flow in CMS

*Wednesday 3 September 2025 09:30 (30 minutes)*

**Session Classification:** Particle Flow approaches

Contribution ID: **19** Type: **not specified**

# Overview of Particle-Flow in CEPC

*Wednesday 3 September 2025 10:00 (30 minutes)*

**Session Classification:** Particle Flow approaches

Contribution ID: **20** Type: **not specified**

# Machine-Learning Particle Flow in FCC

*Wednesday 3 September 2025 10:50 (30 minutes)*

**Session Classification:** Particle Flow approaches

Contribution ID: **21** Type: **not specified**

# Machine-Learning Particle Flow in CLICDet/FCC-ee CLD/CMS

*Wednesday 3 September 2025 11:35 (30 minutes)*

**Session Classification:** Particle Flow approaches

Contribution ID: **22** Type: **not specified**

# Machine-Learning Based Reconstruction in CEPC

*Wednesday 3 September 2025 13:50 (30 minutes)*

**Session Classification:** Particle Flow approaches

Contribution ID: **23** Type: **not specified**

# Machine-Learning Based Particle Flow in ILD

*Wednesday 3 September 2025 14:35 (30 minutes)*

**Session Classification:** Particle Flow approaches

Contribution ID: **24** Type: **not specified**

# Detector concepts: ILD

*Monday 1 September 2025 11:15 (20 minutes)*

**Session Classification:** Introduction

Contribution ID: **25** Type: **not specified**

# Welcome

*Monday 1 September 2025 09:00 (5 minutes)*

**Session Classification:** Introduction