# FCC-ee Workshop on Particle Flow Reconstruction



# **Report of Contributions**

The Particle Flow approach

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 FCC-ee Worksh  $\ \cdots \ /$  Report of Contributions

Detector Concepts: CLD

Contribution ID: 2

Type: not specified

#### **Detector Concepts: CLD**

Monday 1 September 2025 11:00 (20 minutes)

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

Detector Concepts: ALLEGRO

Contribution ID: 3

Type: not specified

#### **Detector Concepts: ALLEGRO**

Monday 1 September 2025 11:20 (20 minutes)

**Presenter:** FRANCOIS, Brieuc (CERN) **Session Classification:** Introduction FCC-ee Worksh  $\ \cdots \ /$  Report of Contributions

Detector Concepts: IDEA

Contribution ID: 4

Type: not specified

#### **Detector Concepts: IDEA**

Monday 1 September 2025 11:40 (20 minutes)

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

Overview of Pandora and histori ...

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 FCC-ee Worksh  $\cdots$  / Report of Contributions

Pandora SDK

Contribution ID: 6

Type: not specified

### Pandora SDK

Monday 1 September 2025 13:30 (30 minutes)

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

FCC-ee Worksh ··· / Report of Contributions

Overview of the LCContent library

Contribution ID: 7

Type: not specified

#### **Overview of the LCContent library**

Monday 1 September 2025 14:00 (1 hour)

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

Overview of LArContent library

Contribution ID: 8

Type: not specified

### **Overview of LArContent library**

Monday 1 September 2025 15:30 (1 hour)

**Presenter:** CHAPPELL, Andrew (University of Warwick (GB)) **Session Classification:** Pandora FCC-ee Worksh  $\cdots$  / Report of Contributions

Discussion

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?

Experience with Pandora for CLD

Contribution ID: 10

Type: not specified

### **Experience with Pandora for CLD**

Tuesday 2 September 2025 09:00 (45 minutes)

**Presenter:** ZABOROWSKA, Anna (CERN) **Session Classification:** Pandora FCC-ee Worksh ··· / Report of Contributions

Experience with Pandora for ALL  $\,\cdots\,$ 

Contribution ID: 11

Type: not specified

# **Experience with Pandora for ALLEGRO**

Tuesday 2 September 2025 09:45 (45 minutes)

**Presenter:** RASMUSSEN, Chris (Brookhaven National Laboratory (US)) **Session Classification:** Pandora

Experience with Pandora for IDEA

Contribution ID: 12

Type: not specified

# **Experience with Pandora for IDEA**

Tuesday 2 September 2025 10:50 (45 minutes)

**Presenter:** KO, Sang Hyun (Seoul National University (KR)) **Session Classification:** Pandora FCC-ee Worksh  $\cdots$  / Report of Contributions

Discussion

Contribution ID: 13

Type: not specified

# Discussion

Tuesday 2 September 2025 11:35 (25 minutes)

What is the start point for the new detector concepts that are far from ILD/CLICdp? What do we think should work (or not) for those detectors? How to continue using Pandora?

Pandora @ key4hep

Contribution ID: 14

Type: not specified

# Pandora @ key4hep

Tuesday 2 September 2025 13:30 (30 minutes)

**Presenter:** CARCELLER, Juan Miguel (CERN)

Debugging Pandora

Contribution ID: 15

Type: not specified

# **Debugging Pandora**

Tuesday 2 September 2025 14:00 (1 hour)

Presenter: MAWBY, Isobel (Lancaster University)

FCC-ee Worksh  $\,\cdots\,$  / Report of Contributions

Discussion

Contribution ID: 16

Type: not specified

# Discussion

Tuesday 2 September 2025 15:00 (30 minutes)

How to use best debugging tools in Pandora @ FCC?

FCC-ee Worksh  $\,\cdots\,$  / Report of Contributions

Overview of Particle-Flow in ATLAS

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

Overview of Particle-Flow in CMS

Contribution ID: 18

Type: not specified

# **Overview of Particle-Flow in CMS**

Wednesday 3 September 2025 09:30 (30 minutes)

**Presenter:** STAHL, Andre Govinda (CERN)

Session Classification: Particle Flow approaches

Overview of Particle-Flow in CEPC

Contribution ID: 19

Type: not specified

# **Overview of Particle-Flow in CEPC**

Wednesday 3 September 2025 10:00 (30 minutes)

**Presenter:** GUO, Fangyi (Chinese Academy of Sciences (CN)) **Session Classification:** Particle Flow approaches

Machine-Learning Particle Flow i  $\,\cdots\,$ 

Contribution ID: 20

Type: not specified

# **Machine-Learning Particle Flow in FCC**

Wednesday 3 September 2025 13:50 (30 minutes)

**Presenters:** GARCIA, Dolores (CERN); HERRMANN, Lena Maria (CERN) **Session Classification:** Particle Flow approaches

Machine-Learning Particle Flow i ...

Contribution ID: 21

Type: not specified

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

Wednesday 3 September 2025 14:35 (30 minutes)

**Presenter:** MOKHTAR, Farouk (Univ. of California San Diego (US)) **Session Classification:** Particle Flow approaches

Machine-Learning Based Reconst …

Contribution ID: 22

Type: not specified

# **Machine-Learning Based Reconstruction in CEPC**

Wednesday 3 September 2025 10:50 (30 minutes)

**Presenter:** RUAN, Manqi

Session Classification: Particle Flow approaches

Machine-Learning Based Particle ···

Contribution ID: 23

Type: not specified

# **Machine-Learning Based Particle Flow in ILD**

Wednesday 3 September 2025 11:35 (30 minutes)

**Presenter:** SUEHARA, Taikan (ICEPP, The University of Tokyo (JP)) **Session Classification:** Particle Flow approaches FCC-ee Worksh  $\,\cdots\,$  / Report of Contributions

Detector concepts: ILD

Contribution ID: 24

Type: not specified

#### **Detector concepts: ILD**

Session Classification: Introduction

FCC-ee Worksh  $\cdots$  / Report of Contributions

Welcome

Contribution ID: 25

Type: not specified

#### Welcome

Monday 1 September 2025 09:00 (5 minutes)

Session Classification: Introduction