

2nd FCC Italy & France Workshop

Report of Contributions

Contribution ID: 1

Type: **not specified**

Technology and layouts developments for the vertex in France

Tuesday 5 November 2024 08:45 (25 minutes)

Author: SENYUKOV, Serhiy (Centre National de la Recherche Scientifique (FR))

Presenter: SENYUKOV, Serhiy (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 1 Vertex, Tracking + SW

Contribution ID: 2

Type: **not specified**

ARCADIA R&D

Tuesday 5 November 2024 09:10 (20 minutes)

Presenter: ROLO, Manuel (Universita e INFN Torino (IT))

Session Classification: Parallel 1 Vertex, Tracking + SW

Contribution ID: 3

Type: **not specified**

Simulation activities in France

Tuesday 5 November 2024 09:30 (20 minutes)

Presenter: BOUDOUL, Gaelle (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 1 Vertex, Tracking + SW

Contribution ID: 4

Type: **not specified**

Drift chamber with cluster counting technique at FCC-ee

Tuesday 5 November 2024 09:50 (25 minutes)

Presenter: ELMETENAWEE, Walaa (Universita e INFN, Bari (IT))

Session Classification: Parallel 1 Vertex, Tracking + SW

Contribution ID: 5

Type: **not specified**

A TPC for FCC-ee (TBC)

Session Classification: Parallel 1 Vertex, Tracking + SW

Contribution ID: 6

Type: **not specified**

Discussion on technologies (MAPS + GAS)

Tuesday 5 November 2024 10:15 (30 minutes)

Presenter: Prof. ANDREAZZA, Attilio (Università degli Studi e INFN Milano (IT))

Session Classification: Parallel 1 Vertex, Tracking + SW

Contribution ID: 7

Type: **not specified**

Welcome from the Director of the Padova INFN Section: Prof. R. Carlin

Monday 4 November 2024 11:00 (10 minutes)

Presenter: CARLIN, Roberto (Universita e INFN, Padova (IT))

Session Classification: Plenary 1

Contribution ID: 8

Type: **not specified**

Overview and Status of the FCC Project

Monday 4 November 2024 11:10 (30 minutes)

Presenter: BENEDIKT, Michael (CERN)

Session Classification: Plenary 1

Contribution ID: 9

Type: **not specified**

Overview of the FCC Project in Italy

Monday 4 November 2024 11:40 (20 minutes)

Presenter: GIACOMELLI, Paolo (Universita e INFN, Bologna (IT))

Session Classification: Plenary 1

Contribution ID: **10**

Type: **not specified**

Overview of the FCC Project in France

Monday 4 November 2024 12:00 (20 minutes)

Presenter: BERNARDI, Gregorio (APC Paris CNRS/IN2P3)

Session Classification: Plenary 1

Contribution ID: **11**

Type: **not specified**

Overview of FCC accelerator activities in Italy and France

Monday 4 November 2024 12:20 (20 minutes)

Presenter: BOSCOLO, Manuela (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Plenary 1

Contribution ID: 12

Type: **not specified**

INFN initiatives for European Strategy Update

Monday 4 November 2024 12:40 (20 minutes)

Presenter: NISATI, Aleandro (Sapienza Universita e INFN, Roma I (IT))

Session Classification: Plenary 1

Contribution ID: 13

Type: **not specified**

French Initiatives for the European Strategy Update

Monday 4 November 2024 13:00 (20 minutes)

Presenter: VACAVANT, Laurent (IN2P3 (FR))

Session Classification: Plenary 1

Contribution ID: **14**

Type: **not specified**

MDI Design & solenoid compensation scheme

Monday 4 November 2024 16:15 (40 minutes)

Presenter: CIARMA, Andrea (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Plenary 3

Contribution ID: 15

Type: **not specified**

Vertex Layout and detector integration

Monday 4 November 2024 16:55 (20 minutes)

Presenter: PALLA, Fabrizio (Universita & INFN Pisa (IT))

Session Classification: Plenary 3

Contribution ID: 16

Type: **not specified**

Solenoid Compensation scheme

Presenter: CIARMA, Andrea (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Plenary 3

Contribution ID: 17

Type: **not specified**

Preliminary parameters of a 3T HTS Solenoid for the IDEA Detector

Monday 4 November 2024 17:15 (20 minutes)

Author: MARIOTTO, Samuele

Presenters: MARIOTTO, Samuele; MARIOTTO, Samuele

Session Classification: Plenary 3

Contribution ID: **18**

Type: **not specified**

Plans for backgrounds studies

Monday 4 November 2024 17:35 (20 minutes)

Presenter: NIGRELLI, Giulia (Sapienza Universita e INFN, Roma I (IT))

Session Classification: Plenary 3

Contribution ID: **19**

Type: **not specified**

Discussion about detector concepts

Monday 4 November 2024 14:30 (1 hour)

A guided discussion about present detector concepts proposals, their possible evolution and new ideas

Presenters: BERNARDI, Gregorio (APC Paris CNRS/IN2P3); GIACOMELLI, Paolo (Universita e INFN, Bologna (IT))

Session Classification: Plenary 2

Contribution ID: 20

Type: **not specified**

Reading again the ALEPH data in EDM4HEP

Wednesday 6 November 2024 09:00 (15 minutes)

Presenter: FANINI, Jacopo (Politecnico di Milano (IT))

Session Classification: Plenary 1

Contribution ID: 21

Type: **not specified**

Track reconstruction in IDEA DC with GNN approach

Wednesday 6 November 2024 09:15 (15 minutes)

Presenter: DE VITA, Andrea (Universita e INFN, Padova (IT))

Session Classification: Plenary 1

Contribution ID: 22

Type: **not specified**

A validation package for FCCSW

Wednesday 6 November 2024 09:30 (15 minutes)

Presenter: LUPI, Enrico

Session Classification: Plenary 1

Contribution ID: 23

Type: **not specified**

Reconstruction in ALLEGRO

Wednesday 6 November 2024 09:45 (15 minutes)

Presenter: MARCHIORI, Giovanni (APC, CNRS/IN2P3 and Université Paris Cité)

Session Classification: Plenary 1

Contribution ID: 24

Type: **not specified**

Discussion on next steps for Simulation and Reconstruction

Wednesday 6 November 2024 10:00 (30 minutes)

Presenter: FRANCOIS, Brieuc (CERN)

Session Classification: Plenary 1

Contribution ID: 25

Type: **not specified**

Vertex Detector and ToF PID layers

Wednesday 6 November 2024 11:00 (25 minutes)

Presenter: CONTARDO, Didier Claude (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary 1

Contribution ID: 26

Type: **not specified**

Drift Chambers

Wednesday 6 November 2024 11:25 (25 minutes)

Presenter: DE FILIPPIS, Nicola (Politecnico/INFN Bari (IT))

Session Classification: Plenary 1

Contribution ID: 27

Type: **not specified**

MPGDs

Wednesday 6 November 2024 11:50 (25 minutes)

Presenter: COLAS, Paul (CEA/Irfu)

Session Classification: Plenary 1

Contribution ID: 28

Type: **not specified**

Plans for Test Beams

Wednesday 6 November 2024 14:00 (30 minutes)

Presenters: GAUDIO, Gabriella (INFN-Pavia); SANTORO, Romualdo (Insubria University and INFN - MI)

Session Classification: Plenary 1

Contribution ID: 29

Type: **not specified**

Plans for Physics

Wednesday 6 November 2024 14:30 (30 minutes)

Presenter: COBAL, Marina (Universita degli Studi di Udine (IT))

Session Classification: Plenary 1

Contribution ID: **30**

Type: **not specified**

Search for ALPS

Tuesday 5 November 2024 11:15 (20 minutes)

Presenters: CACCIAPAGLIA, Giacomo (Centre National de la Recherche Scientifique (FR)); CACCIAPAGLIA, Giacomo (Centre National de la Recherche Scientifique (FR))

Session Classification: PHYSICS

Contribution ID: 31

Type: **not specified**

The future of light (dark) new physics

Tuesday 5 November 2024 11:35 (20 minutes)

Presenters: BERTUZZO, Enrico (University of São Paulo); BERTUZZO, enrico (Scuola Normale Superiore)

Session Classification: PHYSICS

Contribution ID: **32**

Type: **not specified**

HNL Models

Tuesday 5 November 2024 11:55 (20 minutes)

Presenter: GIAPPICHINI, Sofia (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: PHYSICS

Contribution ID: 33

Type: **not specified**

HNL studies (in FullSim)

Tuesday 5 November 2024 12:15 (20 minutes)

Presenter: SADOWSKI, Gaelle (Centre National de la Recherche Scientifique (FR))

Session Classification: PHYSICS

Contribution ID: 34

Type: **not specified**

On Luminosity (TH)

Presenter: UCCI, Francesco Pio (INFN Pavia)

Session Classification: PHYSICS

Contribution ID: 35

Type: **not specified**

QCD & Lund Jet Plane studies

Tuesday 5 November 2024 14:35 (20 minutes)

Presenters: Ms PANWAR, Lata (Laboratoire de physique nucléaire et des hautes énergies (LPNHE), Paris, France); Dr PANWAR, Lata (Laboratoire de physique nucléaire et des hautes énergies (LPNHE), Paris, France)

Session Classification: PHYSICS

Contribution ID: 36

Type: **not specified**

Bounding exotic top decays inclusively at FCC-ee.

Tuesday 5 November 2024 15:15 (20 minutes)

Presenter: MELE, Barbara

Session Classification: PHYSICS

Contribution ID: 37

Type: **not specified**

ZH(qq/gg)

Tuesday 5 November 2024 16:50 (30 minutes)

Presenter: MALOIZEL, Alexis (APC, CNRS/IN2P3 and Université Paris Cité (FR))

Session Classification: PHYSICS

Contribution ID: **38**

Type: **not specified**

ZH Mass and Cross Section

Tuesday 5 November 2024 17:20 (30 minutes)

Presenter: BERNARDI, Gregorio (APC Paris CNRS/IN2P3)

Session Classification: PHYSICS

Contribution ID: 39

Type: **not specified**

ZH/H- $\rightarrow$ ZZ* for Higgs width

Tuesday 5 November 2024 17:50 (30 minutes)

Presenter: COMBES, Ines

Session Classification: PHYSICS

Contribution ID: 40

Type: **not specified**

Higgs self couplings FCC-hh

Presenter: TALIERCIO, Angela (Northwestern University (US))

Session Classification: PHYSICS

Contribution ID: 41

Type: **not specified**

Status of calorimeter simulation in the FCC framework

Tuesday 5 November 2024 11:15 (10 minutes)

Presenter: PEZZOTTI, Lorenzo (Universita e INFN, Bologna (IT))

Session Classification: Calorimetry

Contribution ID: 42

Type: **not specified**

Calorimeter performance with physics benchmark

Tuesday 5 November 2024 11:35 (10 minutes)

Presenters: GRENIER, Gerald (IP2I, CNRS, Univ Lyon 1 (FR)); GRENIER, Gerald (Institut de Physique Nucleaire de Lyon (IPNL))

Session Classification: Calorimetry

Contribution ID: 43

Type: **not specified**

EM calorimeter design concept overview (hardware focused)

Tuesday 5 November 2024 11:55 (10 minutes)

Presenter: MORANGE, Nicolas (Université Paris-Saclay (FR))

Session Classification: Calorimetry

Contribution ID: 44

Type: **not specified**

HAD calorimeter design concept overview (hardware focused)

Tuesday 5 November 2024 12:15 (10 minutes)

Presenter: LAKTINEH, Imad (Centre National de la Recherche Scientifique (FR))

Session Classification: Calorimetry

Contribution ID: 45

Type: **not specified**

The uRWELL technology for the IDEA MUON and pre-shower system

Tuesday 5 November 2024 14:15 (18 minutes)

Presenter: Dr BENCIVENNI, Giovanni (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Muon, PID, timing

Contribution ID: 46

Type: **not specified**

Resistive Plate Chamber for the Muon apparatus

Tuesday 5 November 2024 14:35 (18 minutes)

Presenter: IASELLI, Giuseppe (Universita e INFN, Bari (IT))

Session Classification: Muon, PID, timing

Contribution ID: 47

Type: **not specified**

PICO-SEC

Tuesday 5 November 2024 14:55 (20 minutes)

Presenters: PAPAEVANGELOU, Thomas; Dr PAPAEVANGELOU, Thomas (Irfu, CEA, Université Paris-Saclay)

Session Classification: Muon, PID, timing

Contribution ID: 48

Type: **not specified**

LGAD

Tuesday 5 November 2024 15:15 (20 minutes)

Presenter: ROBUTTI, Enrico (INFN e Universita Genova (IT))

Session Classification: Muon, PID, timing

Contribution ID: 49

Type: **not specified**

Monolithic CMOS

Tuesday 5 November 2024 15:35 (20 minutes)

Presenter: CONTARDO, Didier Claude (Centre National de la Recherche Scientifique (FR))

Session Classification: Muon, PID, timing

Contribution ID: 50

Type: **not specified**

Tau Physics prospects update

Tuesday 5 November 2024 14:15 (20 minutes)

Presenter: LUSIANI, Alberto (Scuola Normale Superiore and INFN, sezione di Pisa)

Session Classification: PHYSICS

Contribution ID: 51

Type: **not specified**

Flavor changing decays at future lepton colliders

Tuesday 5 November 2024 14:55 (20 minutes)

Presenter: TAMMARO, Michele

Session Classification: PHYSICS

Contribution ID: 52

Type: **not specified**

SRF - R&D

Tuesday 5 November 2024 08:45 (20 minutes)

Presenter: PIRA, Cristian

Session Classification: Parallel 3: Accelerator 1

Contribution ID: 53

Type: **not specified**

High field Magnets

Presenter: FARINON, Stefania (INFN e Universita Genova (IT))

Session Classification: Parallel 3: Accelerator 1

Contribution ID: 54

Type: **not specified**

HTS IR Quadrupol and Beampipe: R&D proposal

Tuesday 5 November 2024 09:35 (20 minutes)

Presenter: MARCHAND, Matthieu (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 3: Accelerator 1

Contribution ID: 55

Type: **not specified**

A new conceptual layout of a HTS Superferric combined function quad/Sext corrector magnet

Tuesday 5 November 2024 09:55 (20 minutes)

Presenter: BUSATTO, Simone (INFN-LASA)

Session Classification: Parallel 3: Accelerator 1

Contribution ID: 56

Type: **not specified**

A crystal-based positron source for FCC-ee

Tuesday 5 November 2024 16:50 (20 minutes)

Presenter: SYTOV, Alexei (Universita e INFN, Ferrara (IT))

Session Classification: Parallel 3: Accelerator 2

Contribution ID: **60**

Type: **not specified**

Beam dynamics positron beamline

Tuesday 5 November 2024 17:10 (20 minutes)

Presenter: BACCI, Alberto Luigi (infn)

Session Classification: Parallel 3: Accelerator 2

Contribution ID: **61**

Type: **not specified**

Performances of the pre-injector with a crystal-based positron source

Tuesday 5 November 2024 17:30 (20 minutes)

Presenter: PATERNO, Gianfranco (Universita e INFN, Ferrara (IT))

Session Classification: Parallel 3: Accelerator 2

Contribution ID: **62**

Type: **not specified**

Experiments on crystal radiators at CERN PS and DESY TB

Tuesday 5 November 2024 17:50 (20 minutes)

Presenter: CANALE, Nicola

Session Classification: Parallel 3: Accelerator 2

Contribution ID: 63

Type: **not specified**

HFM FCC Program - Italian activities

Tuesday 5 November 2024 09:05 (15 minutes)

Presenter: FARINON, Stefania (INFN e Universita Genova (IT))

Session Classification: Parallel 3: Accelerator 1

Contribution ID: **64**

Type: **not specified**

HFM FCC Program - French Activities (R)

Tuesday 5 November 2024 09:20 (15 minutes)

Presenter: Dr ROCHEPAULT, Etienne (Université Paris-Saclay (FR))

Session Classification: Parallel 3: Accelerator 1

Contribution ID: 65

Type: **not specified**

AI applications for Dynamical Aperture calculations (R)

Tuesday 5 November 2024 10:15 (20 minutes)

Presenters: BRUANT, Quentin; BRUANT, Quentin (CEA/IRFU)

Session Classification: Parallel 3: Accelerator 1

Contribution ID: **66**

Type: **not specified**

FCC booster design (R)

Tuesday 5 November 2024 16:30 (20 minutes)

Presenter: CHANCE, Antoine (CEA Irfu)

Session Classification: Parallel 3: Accelerator 2

Contribution ID: 67

Type: **not specified**

On Luminosity (TH)

Tuesday 5 November 2024 16:30 (20 minutes)

Presenters: UCCI, Francesco Pio (INFN Pavia); UCCI, Francesco Pio

Session Classification: PHYSICS

Contribution ID: **68**

Type: **not specified**

Highlights from CERN Test Beam for the IDEA dual readout ECAL

Tuesday 5 November 2024 12:35 (10 minutes)

Presenter: CAMPAJOLA, Marcello (University Federico II and INFN, Naples (IT))

Session Classification: Calorimetry

Contribution ID: **69**

Type: **not specified**

R&D on fiber dual-readout calorimetry

Tuesday 5 November 2024 12:45 (10 minutes)

Presenter: PARETI, Andrea (Pavia University and INFN (IT))

Session Classification: Calorimetry

Contribution ID: 70

Type: **not specified**

Inclusion of cross-talk in ALLEGRO simulation

Tuesday 5 November 2024 12:55 (10 minutes)

Presenter: WU, Zhibo (Centre National de la Recherche Scientifique (FR))

Session Classification: Calorimetry

Contribution ID: 71

Type: **not specified**

Higgs self couplings FCC-hh

Tuesday 5 November 2024 12:35 (20 minutes)

Presenter: TALIERCIO, Angela (Northwestern University (US))

Session Classification: PHYSICS

Contribution ID: 72

Type: **not specified**

Calorimeters

Wednesday 6 November 2024 12:15 (25 minutes)

Presenter: MARCHIORI, Giovanni (APC, CNRS/IN2P3 and Université Paris Cité)

Session Classification: Plenary 1

Contribution ID: 73

Type: **not specified**

Presentation of plans for IDEA paper

Monday 4 November 2024 15:30 (15 minutes)

Presenter: BEDESCHI, Franco (Universita & INFN Pisa (IT))

Session Classification: Plenary 2

Contribution ID: 74

Type: **not specified**

Closing of workshop

Wednesday 6 November 2024 15:30 (2 minutes)

Presenter: AZZI, Patrizia (INFN Padova (IT))