

Corfu2025 Workshop on Future Accelerators

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday 28 April 2025 09:20 (10 minutes)

Presenter: ZOUPANOS, George (National Technical Univ. of Athens (GR))

Contribution ID: 2

Type: **not specified**

Physics motivation for future colliders

Monday 28 April 2025 10:30 (1 hour)

Presenter: WULZER, Andrea (ETH-Zurich)

Contribution ID: 3

Type: **not specified**

Probing new physics through the SMEFT at future colliders

Tuesday 29 April 2025 10:20 (50 minutes)

Presenters: VRYONIDOU, Eleni (University of Cambridge); VRYONIDOU, Eleni (Universite catholique de Louvain); VRYONIDOU, Eleni (Nikhef); VRYONIDOU, Eleni (The University of Manchester (GB))

Contribution ID: 4

Type: **not specified**

Beyond standard model searches: current status and prospects from the experiment side

Tuesday 29 April 2025 09:30 (50 minutes)

Presenter: SOFFI, Livia (INFN Roma I (IT))

Contribution ID: 5

Type: **not specified**

Precision luminosity measurements at future e+e- colliders

Wednesday 30 April 2025 16:40 (45 minutes)

Presenter: PICCININI, Fulvio (INFN Pavia)

Contribution ID: 7

Type: **not specified**

DRD3 status report - solid state detectors

Tuesday 29 April 2025 16:00 (45 minutes)

Presenters: CALDERINI, Giovanni (Centre National de la Recherche Scientifique (FR)); CALDERINI, Giovanni (LPNHE-Paris, Centre National de la Recherche Scientifique (FR))

Contribution ID: 9

Type: **not specified**

Detector challenges and upgrades for the LHC experiments

Monday 28 April 2025 16:40 (50 minutes)

Presenter: CARNESECCHI, Francesca (CERN)

Contribution ID: **10**

Type: **not specified**

Electroweak physics in the era of future accelerators

Monday 28 April 2025 12:45 (45 minutes)

Presenters: STEFANEK, Ben; STEFANEK, Ben; STEFANEK, Benjamin A. (JGU Mainz); STEFANEK, Benjamin (IFIC Valencia); STEFANEK, Benjamin

Contribution ID: 11

Type: **not specified**

Physics highlights and future perspectives of LHC experiments

Monday 28 April 2025 09:30 (1 hour)

Presenter: VERWILLIGEN, Piet (Universita e INFN, Bari (IT))

Contribution ID: 12

Type: **not specified**

The ATLAS ITk Pixel and Strip Detector System for the Phase-II LHC Upgrade

Tuesday 29 April 2025 16:45 (30 minutes)

Presenter: KOPSALIS, Ioannis (National Technical Univ. of Athens (GR))

Contribution ID: 13

Type: **not specified**

Electroweak Physics: current status and prospects from the experiment side

Monday 28 April 2025 16:00 (40 minutes)

Presenter: MAURER, Julien (IFIN-HH Bucharest)

Contribution ID: 14

Type: **not specified**

Quantum computing in the era of future accelerators

Presenter: ABEL, Steven Adam (University of Durham (GB))

Contribution ID: 15

Type: **not specified**

HL-LHC project status

Wednesday 30 April 2025 12:15 (40 minutes)

Presenter: PAPAPHILIPPOU, Yannis (CERN)

Contribution ID: **16**

Type: **not specified**

DRD4 status report - photon detectors and PID

Tuesday 29 April 2025 18:30 (40 minutes)

Presenter: FIORINI, Massimiliano (Universita e INFN, Ferrara (IT))

Contribution ID: **18**

Type: **not specified**

DRD6 status report - calorimetry

Tuesday 29 April 2025 12:20 (45 minutes)

Presenter: POESCHL, Roman (Université Paris-Saclay (FR))

Contribution ID: **19**

Type: **not specified**

2025 Development of the ATLAS Liquid Argon Calorimeter Readout Electronics for the HL-LHC

Tuesday 29 April 2025 13:05 (25 minutes)

Presenter: COLLADO SOTO, Pablo (Universidad Autonoma de Madrid (ES))

Contribution ID: 20

Type: **not specified**

Quantum computing in the era of future accelerators

Saturday 3 May 2025 10:30 (45 minutes)

Presenter: ABEL, Steven Adam

Contribution ID: 21

Type: **not specified**

Flavour Physics : current status and prospects from the experiment side

Wednesday 30 April 2025 09:30 (50 minutes)

Presenter: SCHMELLING, Michael (Max Planck Society (DE))

Contribution ID: 22

Type: **not specified**

The SMEFT beyond LO

Wednesday 30 April 2025 11:35 (40 minutes)

Presenters: GIARDINO, Pier Paolo (Universidade de Santiago de Compostela); GIARDINO, Pier Paolo (University Autonoma of Madrid); GIARDINO, Pier Paolo (Sezione di Pisa (IT)); GIARDINO, Pier Paolo

Contribution ID: 23

Type: **not specified**

Status of the storage ring EDM experiments

Wednesday 30 April 2025 12:55 (40 minutes)

Presenters: BOWCOCK, Themis (University of Liverpool (GB)); BOWCOCK, Themis (University of Liverpool (GB)); BOWCOCK, Themis

Contribution ID: 24

Type: **not specified**

CMS Phase2 Inner Tracker status

Tuesday 29 April 2025 17:15 (30 minutes)

Presenters: CASSESE, Antonio; CASSESE, Antonio (INFN, Firenze (IT))

Contribution ID: 25

Type: **not specified**

Neutrino physics in the era of future accelerators

Wednesday 30 April 2025 10:20 (50 minutes)

Presenters: ANTUSCH, Stefan; ANTUSCH, Stefan (MPI of Physics, Munich)

Contribution ID: 26

Type: **not specified**

The CMS ME0 GEM detector for the HL-LHC

Wednesday 30 April 2025 17:25 (25 minutes)

Presenter: DE BRUYN, Isabelle (Universite Libre de Bruxelles (BE))

Contribution ID: 27

Type: **not specified**

Integrated Future Circular Collider programme (ee / hh)

Monday 28 April 2025 12:00 (45 minutes)

Presenter: GIOVANNOZZI, Massimo (CERN)

Contribution ID: **28**

Type: **not specified**

US muon collider

Friday 2 May 2025 18:15 (50 minutes)

Presenters: PALMER, Mark (Fermilab); Dr PALMER, mark (BNL)

Contribution ID: 29

Type: **not specified**

QCD/top Physics: current status and prospects from the experiment side

Wednesday 30 April 2025 16:00 (40 minutes)

Presenter: STRATMANN, Maren (Bergische Universitaet Wuppertal (DE))

Contribution ID: **30**

Type: **not specified**

Performance and calibration of the ATLAS Tile Calorimeter

Wednesday 30 April 2025 18:10 (25 minutes)

Presenters: DIVISEK, Martin (Charles University (CZ)); DIVISEK, Martin

Contribution ID: 32

Type: **not specified**

Astrophysics and cosmology in the era of future accelerators

Thursday 1 May 2025 10:20 (50 minutes)

Presenter: Dr WHITE, Graham (University of Southampton)

Contribution ID: 33

Type: **not specified**

Concepts for Muon Systems at the FCC-ee

Friday 2 May 2025 11:45 (50 minutes)

Presenter: RAMOS, Dayron (INFN Bari)

Contribution ID: 34

Type: **not specified**

Parasite detectors at future colliders

Monday 28 April 2025 17:50 (45 minutes)

Presenters: KLING, Felix (DESY); KLING, Felix (University of California, Irvine)

Contribution ID: 35

Type: **not specified**

DRD7 status report - Electronics and On-Detector Processing

Thursday 1 May 2025 12:30 (50 minutes)

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

Contribution ID: 36

Type: **not specified**

DRD1 status report - gaseous detectors

Friday 2 May 2025 10:35 (50 minutes)

Presenters: TITOV, Maksym (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR)); Dr TITOV, Maksym (IRFU, CEA Saclay, Université Paris-Saclay (FR)); TITOV, Maxim (CEA Saclay)

Contribution ID: 37

Type: **not specified**

The SHIP experiment

Wednesday 30 April 2025 18:35 (40 minutes)

Presenter: PATEL, Mitesh

Contribution ID: 44

Type: **not specified**

Novel ideas for next generation triggers and DAQ at the HL-LHC

Thursday 1 May 2025 16:00 (45 minutes)

Presenter: Dr ZARUCKI, Mateusz (CERN)

Contribution ID: 45

Type: **not specified**

Higgs physics at future e^+e^- colliders

Thursday 1 May 2025 09:30 (50 minutes)

Presenter: HABER, Howard (Santa Cruz Institute for Particle Physics (SCIPP))

Contribution ID: 49

Type: **not specified**

FCC physics (ee & hh)

Friday 2 May 2025 16:50 (45 minutes)

Presenter: WILKINSON, Guy (University of Oxford (GB))

Contribution ID: 50

Type: **not specified**

Overview of ECFA process and activities

Friday 2 May 2025 16:00 (50 minutes)

Presenter: SPHICAS, Paris (CERN/Athens)

Contribution ID: 56

Type: **not specified**

Farewell

Saturday 3 May 2025 13:15 (15 minutes)

Presenter: ZOUPANOS, George (National Technical Univ. of Athens (GR))

Contribution ID: 57

Type: **not specified**

Multi-messenger astronomy in the era of future accelerators

Thursday 1 May 2025 11:30 (1 hour)

Presenter: DEV, Bhupal (Washington University in St. Louis)

Contribution ID: 58

Type: **not specified**

Upgrade of ATLAS Hadronic Tile Calorimeter for the High Luminosity LHC

Saturday 3 May 2025 12:05 (30 minutes)

Presenter: GOMEZ DELEGIDO, Antonio Jesus (CERN)

Contribution ID: 59

Type: **not specified**

The LHeC proposal

Friday 2 May 2025 17:35 (40 minutes)

Presenters: PIOTRZKOWSKI, Krzysztof (Universite Catholique de Louvain (UCL) (BE)); PIOTRZKOWSKI, Krzysztof (AGH University (Kraków, PL)); PIOTRZKOWSKI, Krzysztof (AGH UST Krakow)

Contribution ID: **60**

Type: **not specified**

The role of ML for Future Colliders design and operation

Saturday 3 May 2025 09:30 (1 hour)

Presenter: GOUSKOS, Loukas (Brown University (US))

Contribution ID: **61**

Type: **not specified**

Review of the proposed LCF at CERN

Friday 2 May 2025 12:35 (50 minutes)

Presenter: VOS, Marcel (IFIC Valencia (ES))

Contribution ID: **62**

Type: **not specified**

2025 Global SMEFT fit at the FCC-ee

Tuesday 29 April 2025 11:35 (45 minutes)

Presenter: CELADA, Eugenia

Contribution ID: 63

Type: **not specified**

Probing cosmological solutions to naturalness at future colliders

Saturday 3 May 2025 12:35 (30 minutes)

Presenters: ENGUIA VILETA, Victor; ENGUIA-VILETA, Víctor (Universidad Autónoma de Madrid); ENGUIA-VILETA, Víctor (Universidad de Valencia)

Contribution ID: 64

Type: **not specified**

Higgs Physics: current status and prospects from the experiment side

Friday 2 May 2025 09:45 (50 minutes)

Presenter: BETHANI, Agni (Universite Catholique de Louvain (UCL) (BE))

Contribution ID: 65

Type: **not specified**

Performance of the ATLAS Muon Spectrometer and Planning for its Upgrade for High Luminosity LHC

Saturday 3 May 2025 11:35 (30 minutes)

Presenter: GOTZ, Stefanie Andrea (Ludwig Maximilians Universitat (DE))

Contribution ID: 67

Type: **not specified**

Study of individual Tiles aging using Cesium scans

Tuesday 29 April 2025 18:05 (25 minutes)

Presenters: BERROCAL GUARDIA, Adrian (The Barcelona Institute of Science and Technology (BIST) (ES)); BERROCAL GUARDIA, Adrià