

7th Forward Physics Facility Meeting

Report of Contributions

Contribution ID: 14

Type: **not specified**

Introduction

Thursday 29 February 2024 09:00 (10 minutes)

Presenter: FENG, Jonathan Lee (University of California Irvine (US))

Contribution ID: 15

Type: **not specified**

CERN Welcome

Thursday 29 February 2024 09:10 (10 minutes)

Presenter: LAMONT, Mike (CERN)

Contribution ID: **16**

Type: **not specified**

FPF Physics Opportunities

Thursday 29 February 2024 09:20 (25 minutes)

Presenter: Prof. SARKAR, Subir (University of Oxford)

Contribution ID: **18**

Type: **not specified**

FPF Integration

Thursday 29 February 2024 10:10 (15 minutes)

Presenter: MAGAZINIK, Anastasiya (Tampere University of Technology (FI))

Contribution ID: **19**

Type: **not specified**

FASER2

Thursday 29 February 2024 10:30 (25 minutes)

Presenter: SALIN, Olivier (University of Oxford)

Contribution ID: 20

Type: **not specified**

FASERnu2

Thursday 29 February 2024 11:30 (25 minutes)

Presenter: Dr ARIGA, Akitaka (Chiba University (JP))

Contribution ID: **21**

Type: **not specified**

Advanced SND

Thursday 29 February 2024 12:00 (25 minutes)

Presenter: DE LELLIS, Giovanni (Universita Federico II e INFN Sezione di Napoli (IT))

Contribution ID: 22

Type: **not specified**

FORMOSA

Thursday 29 February 2024 12:30 (25 minutes)

Presenter: TAFOYA VARGAS, Juan Salvador (University of California Davis (US))

Contribution ID: 23

Type: **not specified**

FLArE

Thursday 29 February 2024 13:00 (25 minutes)

Presenter: LINDEN, Steven

Contribution ID: 24

Type: **not specified**

Neutrino Rate Predictions for FASER and the FPF

Thursday 29 February 2024 15:00 (15 minutes)

Presenter: FIEG, Max (University of California Irvine (US))

Session Classification: Parallel Session 1

Contribution ID: 25

Type: **not specified**

Event generators for high energy electron and neutrino DIS

Thursday 29 February 2024 15:20 (15 minutes)

Presenter: Dr ROJO, Juan (VU Amsterdam and Nikhef)

Session Classification: Parallel Session 1

Contribution ID: 26

Type: **not specified**

Resolving the HL-LHC beam bunch structure with timing at the Forward Physics Facility

Thursday 29 February 2024 15:40 (15 minutes)

Presenter: VICENZI, Matteo (Brookhaven National Laboratory (US))

Session Classification: Parallel Session 1

Contribution ID: 27

Type: **not specified**

Neutrino tridents at the LHC

Thursday 29 February 2024 16:00 (15 minutes)

Presenter: Dr MAKELA, Toni (NCBJ)

Session Classification: Parallel Session 1

Contribution ID: 28

Type: **not specified**

Neutrino flux constraints with the low- ν method

Thursday 29 February 2024 16:50 (15 minutes)

Presenter: WILKINSON, Callum David (Lawrence Berkeley National Lab. (US))

Session Classification: Parallel Session 1

Contribution ID: 29

Type: **not specified**

LHCb potential to discover long-lived new physics particles with lifetimes above 100 ps

Thursday 29 February 2024 17:10 (15 minutes)

Presenter: OVCHYNNIKOV, Maksym (Leiden University (NL))

Session Classification: Parallel Session 1

Contribution ID: **30**

Type: **not specified**

Phenomenology of axion-like particles with universal fermion couplings - revisited

Thursday 29 February 2024 17:30 (15 minutes)

Presenter: OVCHYNNIKOV, Maksym (Leiden University (NL))

Session Classification: Parallel Session 1

Contribution ID: 31

Type: **not specified**

Probing Lepton-Flavor-Violating ALPs with Muons at the Forward Physics Facility and at a Muon Collider

Thursday 29 February 2024 15:00 (15 minutes)

Presenter: MARCARELLI, Roman

Session Classification: Parallel Session 2 - (Coffee will be served in 222/R-001)

Contribution ID: 32

Type: **not specified**

Discovering Heavy Neutral Leptons with the Higgs Boson

Thursday 29 February 2024 15:20 (15 minutes)

Presenter: BERNAL, Nicolás (New York University Abu Dhabi)

Session Classification: Parallel Session 2 - (Coffee will be served in 222/R-001)

Contribution ID: 33

Type: **not specified**

FORESEE: Updates and Expanded Model Library

Thursday 29 February 2024 15:40 (15 minutes)

Presenter: MAMMEN ABRAHAM, Roshan (University of California Irvine (US))

Session Classification: Parallel Session 2 - (Coffee will be served in 222/R-001)

Contribution ID: 34

Type: **not specified**

BSM Physics Opportunities with Far-Forward Experiments at a 100 TeV Proton Collider

Thursday 29 February 2024 16:00 (15 minutes)

Presenter: ADHIKARY, Jyotismita (NCBJ Warsaw)

Session Classification: Parallel Session 2 - (Coffee will be served in 222/R-001)

Contribution ID: 35

Type: **not specified**

Dark showers from the Z portal

Thursday 29 February 2024 16:50 (15 minutes)

Presenter: LI, LINGFENG (Brown U.)

Session Classification: Parallel Session 2 - (Coffee will be served in 222/R-001)

Contribution ID: **36**

Type: **not specified**

New Physics through neutrons at FASER

Thursday 29 February 2024 17:10 (15 minutes)

Presenter: KARTHIKEYAN, Aparajitha (Department of Physics and Astronomy, Texas A&M University)

Session Classification: Parallel Session 2 - (Coffee will be served in 222/R-001)

Contribution ID: 37

Type: **not specified**

Light scalars from B- and D-meson decays at FASER: model-independent reach and flavored models

Thursday 29 February 2024 17:30 (15 minutes)

Presenter: BALKIN, Reuven (UC Santa Cruz)

Session Classification: Parallel Session 2 - (Coffee will be served in 222/R-001)

Contribution ID: **38**

Type: **not specified**

US DOE/NSF Support Letter

Friday 1 March 2024 09:00 (10 minutes)

Presenters: DIWAN, Milind Vaman (Brookhaven National Laboratory (US)); FENG, Jonathan Lee (University of California Irvine (US))

Contribution ID: 39

Type: **not specified**

Reports from UK, Japan, and other regions regarding organization, funding

Friday 1 March 2024 09:10 (30 minutes)

Presenters: Dr ARIGA, Akitaka (Chiba University (JP)); BARR, Alan (University of Oxford (GB)); BARR, Alan (University of Oxford (GB)); SFYRLA, Anna (Universite de Geneve (CH)); GWILLIAM, Carl (University of Liverpool (GB)); OTONO, Hidetoshi (Kyushu University (JP)); BOYD, Jamie (CERN); MC-FAYDEN, Josh (University of Sussex); D'ONOFRIO, Monica (University of Liverpool (GB)); ARIGA, Tomoko (University of Bern); ARIGA, Tomoko (Kyushu University (JP))

Contribution ID: 40

Type: **not specified**

PBC Report Discussion

Friday 1 March 2024 09:50 (1 hour)

Presenter: FENG, Jonathan Lee (University of California Irvine (US))

Contribution ID: 41

Type: **not specified**

FASER2 Magnet

Friday 1 March 2024 11:30 (20 minutes)

Presenter: OTONO, Hidetoshi (Kyushu University (JP))

Contribution ID: 42

Type: **not specified**

NuTeV-like detector

Friday 1 March 2024 12:00 (20 minutes)

Presenters: BRENNER, Lydia (Nikhef National institute for subatomic physics (NL)); WU, Mengqing (Radboud University and Nikhef (NL))

Contribution ID: 43

Type: **not specified**

Nu_e Detector

Friday 1 March 2024 12:30 (20 minutes)

Presenter: MCFAYDEN, Josh (University of Sussex)

Contribution ID: 44

Type: **not specified**

FPF@FCC

Friday 1 March 2024 16:30 (20 minutes)

Presenter: Dr ROJO, Juan (VU Amsterdam and Nikhef)

Contribution ID: 45

Type: **not specified**

Forward Charm with IceCube Neutrinos from TeV to PeV

Friday 1 March 2024 15:30 (20 minutes)

Presenters: LU, Lu (Chiba University); LU, Lu (University of Wisconsin-Madison)

Contribution ID: 46

Type: **not specified**

Open questions in atmospheric lepton fluxes

Friday 1 March 2024 15:00 (20 minutes)

Presenters: FEDYNITCH, Anatoli (ICRR, The University of Tokyo); FEDYNITCH, Anatoli

Contribution ID: 47

Type: **not specified**

Discussion

Friday 1 March 2024 17:00 (45 minutes)

Contribution ID: 48

Type: **not specified**

Workshop Summary

Friday 1 March 2024 17:45 (15 minutes)

Contribution ID: 49

Type: **not specified**

Hadronic Interactions and the Pierre Auger Observatory

Friday 1 March 2024 16:00 (20 minutes)

Presenters: ENGEL, Ralph (Forschungszentrum Karlsruhe); ENGEL, Ralph Richard (KIT - Karlsruhe Institute of Technology (DE))

Contribution ID: 50

Type: **not specified**

FPF Civil Engineering (public)

Thursday 29 February 2024 09:50 (15 minutes)

Presenter: BUD, Tamara (CERN)