

**DUNE FD3 Mini-Workshop
Toward a Combined Photon
Detection and Field Cage
System**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday, 26 June 2023 09:30 (15 minutes)

Presenters: JUNG, Chang Kee (Stony Brook University); RICCIO, Ciro (Stony Brook University (US))

Session Classification: Session I

Contribution ID: 2

Type: **not specified**

VD Optimized FD3 with extended PD coverage - Introduction&Goals

Monday, 26 June 2023 09:45 (20 minutes)

Presenter: CAVANNA, Flavio (Fermilab)

Session Classification: Session I

Contribution ID: 3

Type: **not specified**

Physics Reach with FD3: A Wish List

Monday, 26 June 2023 10:05 (30 minutes)

Presenter: GIL-BOTELLA, Ines (CIEMAT Madrid)

Session Classification: Session I

Contribution ID: 4

Type: **not specified**

FD3 PDS Simulation: Status and Needs

Monday, 26 June 2023 10:35 (30 minutes)

Presenter: PAULUCCI, Laura (UFABC)

Session Classification: Session I

Contribution ID: 5

Type: **not specified**

Ptp Coating Techniques (TBD)

Session Classification: Session II

Contribution ID: 6

Type: **not specified**

PEN Foils Option for FD3 (TBD)

Session Classification: Session I

Contribution ID: 7

Type: **not specified**

Atomic Layer Deposition of Dichroics

Monday, 26 June 2023 15:10 (40 minutes)

Presenter: DIWAN, Milind (BNL)

Session Classification: Session II

Contribution ID: 8

Type: **not specified**

Dichroic Filters for FD3 and Prospects for Deposition on Acrylic Plates

Monday, 26 June 2023 11:30 (30 minutes)

Presenters: CERVERA, Anselmo; CERVERA, Anselmo (IFIC-Valencia)

Session Classification: Session I

Contribution ID: 9

Type: **not specified**

VD Optimizations for FD3

Monday, 26 June 2023 14:30 (40 minutes)

Presenter: CAVANNA, Flavio (Fermilab)

Session Classification: Session II

Contribution ID: **10**

Type: **not specified**

Material Selection and Radioactivity Considerations

Presenter: CHURCH, Eric (PNNL)

Session Classification: Session II

Contribution ID: 11

Type: **not specified**

HV System and E Field Simulation at LArTPC

Tuesday, 27 June 2023 09:30 (30 minutes)

Presenter: YU, Bo (Brookhaven National Lab)

Session Classification: Session III

Contribution ID: 12

Type: **not specified**

FD1 Field Cage Assembly Overview

Tuesday, 27 June 2023 10:00 (30 minutes)

Presenter: WILKING, Michael (Stony Brook University)

Session Classification: Session III

Contribution ID: 13

Type: **not specified**

FD3 Radioactive Background and Material Selection - I

Monday, 26 June 2023 16:10 (40 minutes)

Presenter: REICHENBACHER, Juergen (South Dakota School of Mines and Technology)

Session Classification: Session II

Contribution ID: 14

Type: **not specified**

SoLAr and Synergy with APEX

Wednesday, 28 June 2023 09:00 (30 minutes)

Presenter: GUFFANTI, Daniele (Milano-Bicocca University & INFN Milano-Bicocca)

Session Classification: Session V

Contribution ID: 15

Type: **not specified**

CERN Test Facilities/Platforms for Prototyping

Tuesday, 27 June 2023 09:00 (30 minutes)

Presenters: PIETROPAOLO, Francesco (CERN); PIETROPAOLO, Francesco (CERN); TUFANLI, Serhan (CERN)

Session Classification: Session III

Contribution ID: 16

Type: **not specified**

Ariadne+ and Synergy with APEX in Future ProtoDUNE Runs

Wednesday, 28 June 2023 09:30 (30 minutes)

Presenters: MAVROKORIDIS, Kostas (Univ of Liverpool); MAVROKORIDIS, Kostas (Univ of Liverpool)

Session Classification: Session V

Contribution ID: 17

Type: **not specified**

PoF for FD3

Tuesday, 27 June 2023 11:00 (30 minutes)

Presenter: PELLICO, William (FNAL)

Session Classification: Session III

Contribution ID: **18**

Type: **not specified**

New OPCs

Tuesday, 27 June 2023 11:30 (30 minutes)

Presenter: KIM, Bora (UIUC)

Session Classification: Session III

Contribution ID: 19

Type: **not specified**

ASICs for PDS Amplification

Tuesday, 27 June 2023 12:00 (30 minutes)

Presenters: CHEN, Hucheng (Brookhaven National Lab); GAO, Shanshan (Brookhaven National Laboratory)

Session Classification: Session III

Contribution ID: 20

Type: **not specified**

Possibility of Digital Readout SiPMs

Tuesday, 27 June 2023 15:30 (30 minutes)

Presenters: CHRISTIAN, David (Fermilab); FAHIM, Farah (FERMILAB)

Session Classification: Session IV

Contribution ID: 21

Type: **not specified**

SoF II: Ring Resonator Modulation and Wavelength-division Multiplexing (Speaker TBD)

Session Classification: Session IV

Contribution ID: 22

Type: **not specified**

Digital Readout: from VD to FD3

Tuesday, 27 June 2023 15:00 (30 minutes)

Presenter: EISCH, Jonathan (Fermilab)

Session Classification: Session IV

Contribution ID: 23

Type: **not specified**

SoF I: Ring Resonator Transmitter and Prospects in Cryogenic Application

Tuesday, 27 June 2023 14:30 (30 minutes)

Presenter: MOAZENI, Sajjad (University of Washington)

Session Classification: Session IV

Contribution ID: 24

Type: **not specified**

SiPM Test Facilities at BNL

Tuesday, 27 June 2023 16:30 (30 minutes)

Presenter: TSANG, Thomas (Brookhaven National Laboratory)

Session Classification: Session IV

Contribution ID: 25

Type: **not specified**

Q-Pix and Synergy with APEX

Wednesday, 28 June 2023 10:00 (30 minutes)

Presenter: ASAADI, Jonathan (University of Texas Arlington)

Session Classification: Session V

Contribution ID: 26

Type: **not specified**

Fermilab Test Facilities - PAB/NLTF

Tuesday, 27 June 2023 17:00 (20 minutes)

Presenter: KISH, Alexander (Fermilab)

Session Classification: Session IV

Contribution ID: 27

Type: **not specified**

Fermilab Test Facilities - IERC

Tuesday, 27 June 2023 17:20 (20 minutes)

Presenter: PELLICO, William (FNAL)

Session Classification: Session IV

Contribution ID: 28

Type: **not specified**

Summary and Roadmap

Wednesday, 28 June 2023 12:20 (30 minutes)

Presenter: CAVANNA, Flavio (Fermilab)

Session Classification: Session V

Contribution ID: 29

Type: **not specified**

Close Remarks

Wednesday, 28 June 2023 12:50 (10 minutes)

Presenters: JUNG, Chang Kee (Stony Brook University); CAVANNA, Flavio (Fermilab); SHI, Wei (Stony Brook University)

Session Classification: Session V

Contribution ID: **30**

Type: **not specified**

Wavelength Shifter Plates for FD3

Wednesday, 28 June 2023 11:20 (30 minutes)

Presenter: CATTADORI, Carla Maria (INFN Milano Bicocca)

Session Classification: Session V

Contribution ID: **31**

Type: **not specified**

Discussion

Contribution ID: 32

Type: **not specified**

FD3 Radioactive Background and Material Selection - II

Monday, 26 June 2023 16:50 (40 minutes)

Presenter: JACKSON, Christopher (PNNL)

Session Classification: Session II

Contribution ID: 33

Type: **not specified**

SLoMo and Synergy with APEX

Wednesday, 28 June 2023 11:50 (20 minutes)

Presenter: CHURCH, Eric (PNNL)

Session Classification: Session V

Contribution ID: **34**

Type: **not specified**

Discussion

Monday, 26 June 2023 17:30 (30 minutes)

Session Classification: Session II

Contribution ID: 35

Type: **not specified**

Discussion

Tuesday, 27 June 2023 17:40 (1 hour)

Session Classification: Session IV

Contribution ID: **36**

Type: **not specified**

LArPix and Synergy with APEX

Wednesday, 28 June 2023 10:50 (30 minutes)

Presenter: DWYER, Dan (LBNL)

Session Classification: Session V

Contribution ID: 37

Type: **not specified**

Neutron Pulse Generation for PDS Calibration

Wednesday, 28 June 2023 12:10 (10 minutes)

Presenters: PAUDEL, Ajib (KSU); PAUDEL, Ajib (Fermi National Accelerator Laboratory)

Session Classification: Session V