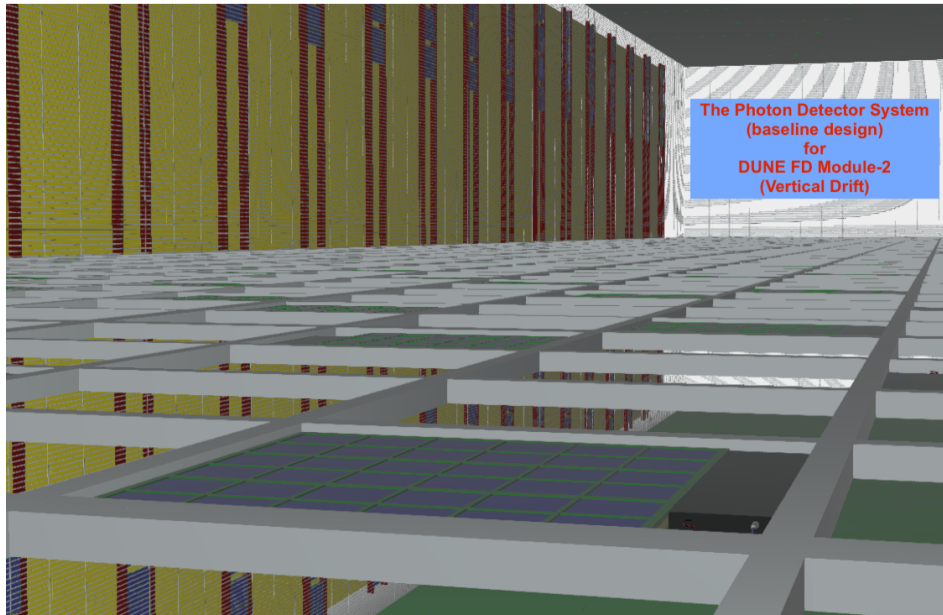


# DUNE FD-2 (VD) Photon Detector Workshop



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## **Introduction (Scope of the WS) + FD2 (VD) PDS: Concept & Goals**

*Monday, 26 July 2021 08:00 (15 minutes)*

**Presenter:** SEGRETO, Ettore (UNICAMP)

Contribution ID: 2

Type: **not specified**

## **FD2 (VD) PDS: Detector Implementation, Layout, Module Design**

*Monday, 26 July 2021 08:20 (15 minutes)*

**Presenter:** CAVANNA, Flavio (Fermilab)

Contribution ID: 3

Type: **not specified**

## **FD2 (VD) PDS: Features and Potentialities for DUNE LowEn Physics**

*Monday, 26 July 2021 08:40 (15 minutes)*

**Presenters:** PAULUCCI, Laura; PAULUCCI MARINHO, Laura

Contribution ID: 4

Type: **not specified**

## **FD2 (VD) PDS: Current (Reference) Design, Deliverables, Budget, Plan (WBS)**

*Monday, 26 July 2021 09:00 (15 minutes)*

**Presenter:** RIVERA, Ryan (FNAL)

Contribution ID: 5

Type: **not specified**

## **FD2 (VD) PDS: European proposed contribution to VD PDS**

*Monday, 26 July 2021 09:20 (15 minutes)*

**Presenter:** GIL-BOTELLA, Ines (CIEMAT Madrid)

Contribution ID: 6

Type: **not specified**

## **PDS Mechanical Design, Layout and Fabrication (Cathode Mount and Membrane Mount)**

*Monday, 26 July 2021 09:55 (15 minutes)*

**Presenter:** WARNER, David (Colorado State University)

Contribution ID: 7

Type: **not specified**

## **PDS Electrical/Electronics Layout Overview (Cathode Mount and Membrane Mount)**

*Monday, 26 July 2021 10:15 (15 minutes)*

**Presenter:** RIVERA, Ryan (FNAL)



Contribution ID: **8**

Type: **not specified**

## **Power-over-Fiber (HV-LC, LV-HC)**

*Monday, 26 July 2021 10:35 (15 minutes)*

**Presenter:** PELLICO, William (FNAL)

Contribution ID: 9

Type: **not specified**

## SiPMs Ganging

*Monday, 26 July 2021 11:35 (15 minutes)*

**Presenter:** TOTANI, Dante (UCSB)

Contribution ID: **10**

Type: **not specified**

## **Dichroic Filters and WLS film**

*Monday, 26 July 2021 11:55 (15 minutes)*

**Presenter:** MACHADO, Ana Amelia (UNICAMP)

Contribution ID: 11

Type: **not specified**

## WLS Plates & SiPM Mounting

*Monday, 26 July 2021 12:15 (15 minutes)*

**Presenter:** CATTADORI, Carla Maria (INFN Milano Bicocca)

Contribution ID: 12

Type: **not specified**

## **Detector production centers, construction and I&I**

**Presenter:** WARNER, David (Colorado State University)

Contribution ID: 13

Type: **not specified**

## **CE Analog Readout & Transmission (Tx&Rx)**

*Tuesday, 27 July 2021 08:00 (20 minutes)*

**Presenters:** SACERDOTI, Sabrina (APC); DAWSON, Jaime (APC CNRS/IN2P3)

Contribution ID: 14

Type: **not specified**

## **CE Digital Readout Transmission (Tx&Rx)**

*Tuesday, 27 July 2021 08:25 (20 minutes)*

**Presenter:** PROSSER, Alan (Fermilab)

Contribution ID: 15

Type: **not specified**

## **Immersed WE Option (CryoSub)for Digital Readout, Aggregation & Transmissio**

*Tuesday, 27 July 2021 08:50 (15 minutes)*

**Presenters:** CUSSANS, David (University of Bristol); NEWBOLD, David (University of Bristol / Rutherford Appleton Laboratory)



Contribution ID: **16**

Type: **not specified**

## **Warm Electronics: (Warm Rx, ADC), DAQ interface**

*Tuesday, 27 July 2021 09:10 (15 minutes)*

Contribution ID: 17

Type: **not specified**

## **PDS Monitoring and Calibration System**

*Tuesday, 27 July 2021 10:10 (15 minutes)*

**Presenters:** DJURCIC, Zelimir (Argonne National Laboratory); CAVANNA, Flavio (Fermilab)

Contribution ID: **18**

Type: **not specified**

## **Other Ph.detection Item(s)?: SiPM readout (at FNAL)**

*Tuesday, 27 July 2021 09:50 (15 minutes)*

**Presenter:** RUBINOV, Paul (Fermilab)

Contribution ID: **19**

Type: **not specified**

## **Contribution plans at the University of Iowa**

*Tuesday, 27 July 2021 11:05 (10 minutes)*

**Presenter:** ONEL, Yasar (University of Iowa)

Contribution ID: 20

Type: **not specified**

## **Contribution plans at CSU**

*Tuesday, 27 July 2021 11:15 (15 minutes)*

**Presenter:** HARTON, John

Contribution ID: 21

Type: **not specified**

## Harvard U - Fiber Modulators

*Tuesday, 27 July 2021 11:30 (15 minutes)*

Use of optical modulators offers the possibility to remove fiber diodes used for data transmission from the cold. High bandwidth with multi-channel capabilities is possible.

**Presenter:** SINCLAIR, Neil (Harvard)

Contribution ID: 22

Type: **not specified**

## UIUC - GaAs Photovoltaic Laser Power Converters

*Tuesday, 27 July 2021 11:45 (15 minutes)*

The use of GaAs in a cryogenic environment for power over fiber system. The development of these devices is underway with testing for use in a DUNE detector as collaboration between UIUC and FNAL.

**Presenter:** LAWRENCE, Lee (UIUC)

Contribution ID: 23

Type: **not specified**

## Remarks - Perspectives/Opportunities

*Tuesday, 27 July 2021 12:35 (20 minutes)*

**Presenter:** TERRANOVA, Francesco (Univ. of Milano-Bicocca and INFN)



Contribution ID: 24

Type: **not specified**

## PhotoSensors

*Monday, 26 July 2021 11:15 (15 minutes)*

**Presenter:** MONTANARI, Alessandro (INFN - Bologna)

Contribution ID: 25

Type: **not specified**

## **Opportunity for Contribution at CINVESTAV (Mexico)**

*Tuesday, 27 July 2021 12:00 (10 minutes)*

**Presenter:** AYALA-TORRES, Marco (CINVESTAV)

Contribution ID: 26

Type: **not specified**

## **Opportunity for contributions from UF Rio de Janeiro**

*Tuesday, 27 July 2021 12:10 (10 minutes)*

**Presenter:** TORRES DE MELLO NETO, Joao

Contribution ID: 27

Type: **not specified**

## Contributions at NIU

*Tuesday, 27 July 2021 10:50 (15 minutes)*

**Presenter:** ZUTSHI, Vishnu

Contribution ID: 28

Type: **not specified**

## **Opportunity of Contributions at CTU Prague**

*Tuesday, 27 July 2021 12:20 (10 minutes)*

**Presenter:** FAJIT, Lukas (Institute of Experimental and Applied Physics in Prague)