

# **Italian Summer Students Final Presentations - day1**

## **Report of Contributions**

Contribution ID: 2

Type: **not specified**

## **Commissioning of the Mu2e Data AcQuisition system and the Vertical Slice Test of the straw tracker**

*Wednesday, 27 September 2023 15:40 (20 minutes)*

**Presenters:** GAMBÀ, Sara; MURAT, Pavel; DONATI, Simone

**Session Classification:** Day 1

Contribution ID: 3

Type: **not specified**

## **Developing a Photon Conversion Algorithm for Background Measurements in Mu2e**

*Wednesday, 27 September 2023 16:00 (20 minutes)*

**Presenters:** CARONE, Francesco Mattia (Mu2e); BERNSTEIN, Robert (Fermilab); MISCETTI, Stefano

**Session Classification:** Day 1

Contribution ID: 5

Type: **not specified**

## **3D CAD Modeling and Mechanical Integration at the Mu2e Experiment at Fermilab**

*Wednesday, 27 September 2023 16:20 (20 minutes)*

**Presenters:** COMMISSO, Marco; COMMISSO, MARCO (University of Pisa); GINTHER, George (University of Rochester); DONATI, Simone

**Session Classification:** Day 1

Contribution ID: 7

Type: **not specified**

## **Analysis of Rock Events from NuMI in the ICARUS Detector**

*Wednesday, 27 September 2023 09:50 (20 minutes)*

**Presenters:** CAPORALE, Marco; BETANCOURT, Minerba (Fermilab)

**Session Classification:** Day 1

Contribution ID: 8

Type: **not specified**

## **Robot System integration for cleanroom SRF assembly at Fermilab**

*Wednesday, 27 September 2023 11:45 (20 minutes)*

**Presenters:** CIARAMELLA, Alessandro; PASSARELLI, Donato (Fermilab); WU, Genfa (FNAL/TD)

**Session Classification:** Day 1

Contribution ID: 9

Type: **not specified**

## **The CMS Phase II Outer Tracker Upgrade at Fermilab**

*Wednesday, 27 September 2023 13:45 (20 minutes)*

**Presenters:** SALIMBENI, Nicolo (CMS); RAVERA, Fabio; UPLEGGGER, Lorenzo (Fermilab)

**Session Classification:** Day 1

Contribution ID: **10**

Type: **not specified**

## **Cosmic muons rejection in Icarus**

*Wednesday, 27 September 2023 10:10 (20 minutes)*

**Presenters:** SCARNERA, Marco; MONTANARI, Claudio Silverio (INFN-Pavia)

**Session Classification:** Day 1



Contribution ID: 11

Type: **not specified**

## **New jet tagging techniques in Vector Boson Scattering (VBS) WV analysis in the semi-leptonic channel with the CMS experiment**

*Wednesday, 27 September 2023 14:25 (20 minutes)*

**Presenters:** DELLI GATTI, Raffaele; ZOI, Irene; NGADIUBA, Jennifer (FNAL)

**Session Classification:** Day 1

Contribution ID: 14

Type: **not specified**

## **Cryogenic high-speed transmitter and receiver circuits in advanced CMOS technology for quantum computing and technology**

*Wednesday, 27 September 2023 12:25 (20 minutes)*

**Presenters:** PACINI, Diego; BRAGA, Davide

**Session Classification:** Day 1

Contribution ID: 15

Type: **not specified**

## **PIP-II thermal analysis of busbars**

*Wednesday, 27 September 2023 14:45 (20 minutes)*

**Presenters:** PICCHI, Silvia; GRZELAK, Victor

**Session Classification:** Day 1

Contribution ID: 16

Type: **not specified**

## **Low-latency quantum control using AI algorithms on cryogenic microelectronics platforms**

*Wednesday, 27 September 2023 11:25 (20 minutes)*

**Presenters:** RUSSO, Marco (Politecnico di Torino); PERDUE, Gabriel (Fermilab)

**Session Classification:** Day 1

Contribution ID: 17

Type: **not specified**

## The Icarus light detection system

*Wednesday, 27 September 2023 10:30 (20 minutes)*

**Presenters:** MARESO, Leo; TORRETTA, Donatella (Fermilab); RASELLI, Gianluca (INFN Pavia)

**Session Classification:** Day 1

Contribution ID: 19

Type: **not specified**

## **Trigger development for HGICAL's cassette testing system for CMS experiment**

*Wednesday, 27 September 2023 14:05 (20 minutes)*

**Presenters:** TINFENA, Mattia; GECSE, Zoltan (Fermilab)

**Session Classification:** Day 1

Contribution ID: 20

Type: **not specified**

## **Single Spoke Resonator (SSR) cryomodules assembly tooling and procedure for PIP-II**

*Wednesday, 27 September 2023 15:05 (20 minutes)*

**Presenters:** GIUSTI, Matteo; BERNARDINI, Jacopo (Fermilab)

**Session Classification:** Day 1

Contribution ID: 21

Type: **not specified**

## **Monitoring the readout temperature in the Icarus TPC**

*Wednesday, 27 September 2023 09:30 (20 minutes)*

**Presenters:** ZAGO, Giovanni; VARANINI, Filippo (INFN Padova); SAVAGE, Geoffrey (Fermi-lab)

**Session Classification:** Day 1



Contribution ID: 22

Type: **not specified**

## **Study and improvement of the trigger system in ICARUS**

*Wednesday, 27 September 2023 10:50 (20 minutes)*

**Presenters:** CHIELLO, Giovanni; FAVA, Angela (Fermilab); TORRETTA, Donatella (Fermilab)

**Session Classification:** Day 1

Contribution ID: 23

Type: **not specified**

## Dark Photon physics in SBND

*Wednesday, 27 September 2023 12:05 (20 minutes)*

**Presenters:** FRICANO, Gaetano; BALASUBRAMANIAN, Supraja (Yale University)

**Session Classification:** Day 1