

# **UM REU 2024 Summer Student Program**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# **Anomaly Detection Algorithm for PLT 2023 Channel Selection Luminosity Data**

*Thursday 25 July 2024 15:05 (5 minutes)*

**Presenter:** REAM, Kathryn Mary

Contribution ID: 2

Type: **not specified**

# **Aimee Dubuque - High Voltage Failures Investigation**

*Thursday 25 July 2024 15:15 (5 minutes)*

Contribution ID: 3

Type: **not specified**

## **Processing and Analysis of HiRadMat Beam Line Data**

*Thursday 25 July 2024 15:25 (5 minutes)*

**Presenter:** WHITE, Julia (Bates College)

Contribution ID: 4

Type: **not specified**

# Hardware Updates to ALPHA-g Magnet Control System

*Thursday 25 July 2024 15:35 (5 minutes)*

**Presenter:** SAWFORD, Sara

Contribution ID: 5

Type: **not specified**

# LHCb Jet Flavour Classification with Graph Neural Networks

*Thursday 25 July 2024 15:45 (5 minutes)*

**Presenter:** PESTICCI, Gabriella Monet (CERN)

Contribution ID: 6

Type: **not specified**

## **Automating ATLAS Control Room Anomaly Detection**

*Thursday 25 July 2024 15:55 (5 minutes)*

**Presenter:** HANNA, Avery Bryn (CERN)

Contribution ID: 7

Type: **not specified**

## **TWOCRYST - Preparing Proof of Principle Experiment for Future Charm Physics**

*Thursday 25 July 2024 16:05 (5 minutes)*

**Presenter:** SMALL, Myrra Rhianna (CERN)



Contribution ID: 8

Type: **not specified**

## **Graph-based Task Scheduling on Heterogeneous Resources**

*Thursday 25 July 2024 16:15 (5 minutes)*

**Presenter:** OTT, Josh (North Carolina State University)

Contribution ID: 9

Type: **not specified**

## Developing a Zenodo Jupyter Lab Extension

*Thursday 25 July 2024 16:25 (5 minutes)*

**Presenter:** ZENGEL, Michael Ryan

Contribution ID: **10**

Type: **not specified**

# **Simulating and Analysing Crystal Channelling in the Large Hadron Collider**

*Thursday 25 July 2024 16:35 (5 minutes)*

**Presenter:** WHARTON, Francie

Contribution ID: 11

Type: **not specified**

## **Analysis Sensitivity for Novel Leptoquark Asymmetric Pair Production**

*Thursday 25 July 2024 16:45 (5 minutes)*

**Presenter:** HAMPSON, Casey (CERN)

Contribution ID: 12

Type: **not specified**

## **Smaller Beam Spot in H6 Secondary Beamline**

*Thursday 25 July 2024 16:55 (5 minutes)*

**Presenter:** WEAVER, Luke Jedidiah

Contribution ID: 13

Type: **not specified**

## **Evaluating Trigger Efficiencies for W-Boson into Three Charged Pion Decays**

*Thursday 25 July 2024 17:05 (5 minutes)*

**Presenter:** SWITZER, Logan Scott

Contribution ID: 14

Type: **not specified**

# Analysis of Scattering Data for MuonE Detector Calibration

*Thursday 25 July 2024 17:15 (5 minutes)*

**Presenter:** GHOBADI, Sena Hossein

Contribution ID: 15

Type: **not specified**

# Cyclotron Detector Development for Antiproton Transport

*Thursday 25 July 2024 17:25 (5 minutes)*

**Presenter:** EVERETTE, Matthew Walker



Contribution ID: **16**

Type: **not specified**

## **AOB**

*Thursday 25 July 2024 17:35 (5 minutes)*