

# **MPP DPG Rehearsals 2023**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# **Study of the muon detection efficiency of thin-gap RPCs**

*Wednesday, 15 March 2023 09:00 (20 minutes)*

**Presenter:** BANGARU, Nayana

**Session Classification:** Session

Contribution ID: 2

Type: **not specified**

# Production and Testing of Resistive Plate Chambers

*Wednesday, 15 March 2023 09:20 (20 minutes)*

**Presenter:** TURKOVIC, Timur

**Session Classification:** Session

Contribution ID: 3

Type: **not specified**

## **Certification of sMDT chambers for the phase II upgrade of the ATLAS muon spectrometer**

*Wednesday, 15 March 2023 09:40 (20 minutes)*

**Presenter:** MEIER, Nick

**Session Classification:** Session

Contribution ID: 4

Type: **not specified**

## **Construction of new small-diameter Muon Drift Tube (sMDT) chambers for the HL-LHC upgrade of the ATLAS muon spectrometer**

*Wednesday, 15 March 2023 10:00 (20 minutes)*

**Presenter:** REED, Alice

**Session Classification:** Session

Contribution ID: 5

Type: **not specified**

## **Quality control in the construction of new small-diameter Muon Drift Tube (sMDT) chambers for the ATLAS muon spectrometer at the HL-LHC**

*Wednesday, 15 March 2023 11:00 (20 minutes)*

**Presenter:** BUCHIN, Daniel (MPP)

**Session Classification:** Session

Contribution ID: 6

Type: **not specified**

# **Higgs boson cross section measurement in the $H \rightarrow ZZ \rightarrow 4\ell$ channel with early Run 3 ATLAS data**

*Wednesday, 15 March 2023 11:20 (20 minutes)*

**Presenter:** REED, Alice

**Session Classification:** Session

Contribution ID: 7

Type: **not specified**

## **Search for charged Higgs bosons in $H^+ \rightarrow W^+ h$ decays with the ATLAS detector**

*Wednesday, 15 March 2023 11:40 (20 minutes)*

**Presenter:** GREWE, Simon

**Session Classification:** Session



Contribution ID: 8

Type: **not specified**

# **The LHC as lepton-proton collider: Searches for resonant production of leptoquarks**

*Wednesday, 15 March 2023 12:00 (20 minutes)*

**Presenter:** BUCHIN, Daniel

**Session Classification:** Session

Contribution ID: 9

Type: **not specified**

## **Compton imaging of undepleted regions of germanium detectors**

*Wednesday, 15 March 2023 14:00 (20 minutes)*

**Presenter:** HAGEMANN, Felix

**Session Classification:** Session

Contribution ID: **10**

Type: **not specified**

## **Axion-Photon Coupling Distributions for Non-Minimal DFSZ-type Axion Models**

*Wednesday, 15 March 2023 14:20 (20 minutes)*

**Presenter:** DIEHL, Johannes

**Session Classification:** Session

Contribution ID: **11**

Type: **not specified**

## **Investigating the blazar-neutrino connection with public IceCube data**

*Wednesday, 15 March 2023 14:40 (20 minutes)*

**Presenter:** KUHLMANN, Julian

**Session Classification:** Session

Contribution ID: 12

Type: **not specified**

## **A low-threshold diamond cryogenic detector for sub-GeV Dark Matter searches**

*Wednesday, 15 March 2023 15:00 (20 minutes)*

**Presenter:** BERTOLINI, Anna

**Session Classification:** Session

Contribution ID: 13

Type: **not specified**

# **Vibration decoupling in the COSINUS underground facility**

*Wednesday, 15 March 2023 16:00 (20 minutes)*

**Presenter:** KELLERMANN, Moritz

**Session Classification:** Session

Contribution ID: 14

Type: **not specified**

## **Magnetic shielding tests for the COSINUS experiment**

*Wednesday, 15 March 2023 16:20 (20 minutes)*

**Presenter:** HUGHES, Maximilian

**Session Classification:** Session

Contribution ID: 15

Type: **not specified**

## **Optimization of the remoTES desing using silicon absorbers**

*Wednesday, 15 March 2023 16:40 (20 minutes)*

**Presenter:** SHERA, Kumrie

**Session Classification:** Session



Contribution ID: **16**

Type: **not specified**

## **Quenching Factor measurements with COSINUS NaI crystals**

*Wednesday, 15 March 2023 17:00 (20 minutes)*

**Presenter:** Mr RAGHUNATH BHARADWAJ, Mukund

**Session Classification:** Session

Contribution ID: **18**

Type: **not specified**

## **Understanding the RF response of the MADMAX experiment**

*Tuesday, 14 March 2023 09:00 (20 minutes)*

**Presenter:** MALDONADO, Juan

**Session Classification:** Session

Contribution ID: 20

Type: **not specified**

## **Towards an automatic mode of operation of the MAM subsystem of MAGIC**

*Tuesday, 14 March 2023 11:20 (20 minutes)*

**Presenter:** BAUTISTA SIERRA, Angela Yulieth

**Session Classification:** Session

Contribution ID: 22

Type: **not specified**

## What we can learn from blazar light curves

*Tuesday, 14 March 2023 11:00 (20 minutes)*

**Presenter:** HECKMANN, Lea

**Session Classification:** Session

Contribution ID: 23

Type: **not specified**

# Particle identification at Belle II using Neural Networks

*Tuesday, 14 March 2023 09:20 (20 minutes)*

**Presenter:** SIMÓ, Xavier

**Session Classification:** Session

Contribution ID: 24

Type: **not specified**

## **Belle II measurement of $B^+ \rightarrow K^+ \pi^0$ and $B^+ \rightarrow \pi^+ \pi^0$**

*Tuesday, 14 March 2023 09:40 (20 minutes)*

**Presenter:** SKORUPA, Justin

**Session Classification:** Session

Contribution ID: 25

Type: **not specified**

**Differential cross-section measurements of an  
hadronically decaying top-quark-antitop-quark pair  
produced in association with two b-jets with the  
ATLAS detector at  $\sqrt{s}=13$  TeV**

*Tuesday, 14 March 2023 14:20 (20 minutes)*

**Presenter:** WENKE, Nina

**Session Classification:** Session

Contribution ID: 26

Type: **not specified**

## **Measurement of the 1-jettiness event shape observable in DIS**

*Tuesday, 14 March 2023 14:00 (20 minutes)*

**Presenter:** HESSLER, Johannes

**Session Classification:** Session



Contribution ID: 27

Type: **not specified**

## **Measurement of differential cross sections in the process $pp \rightarrow W^+W^-bb$**

*Tuesday, 14 March 2023 14:40 (20 minutes)*

**Presenter:** HESSLER, Johannes

**Session Classification:** Session

Contribution ID: 28

Type: **not specified**

## **Evidence of hadronic origin of the gamma-ray emission from the nova RS Oph by the MAGIC telescopes**

*Tuesday, 14 March 2023 11:40 (20 minutes)*

**Presenter:** HECKMANN, Lea

**Session Classification:** Session