

# **Tópicos de Física de Partículas e Astropartículas I 23/24**

## **Report of Contributions**

Contribution ID: 16

Type: **not specified**

# Observation of high-energy neutrinos from the Galactic plane

*Tuesday, 16 January 2024 15:00 (30 minutes)*

**Presenter:** DIAS, David

**Session Classification:** Session II

Contribution ID: 17

Type: **not specified**

# **Limits to Gauge Coupling in the Dark Sector Set by the Non- observation of Instanton-Induced Decay of Super-Heavy Dark Matter in the Pierre Auger Observatory Data**

*Monday, 15 January 2024 09:30 (30 minutes)*

**Presenter:** PEREIRA, Margarida

**Session Classification:** Session I

Contribution ID: **18**

Type: **not specified**

## **A detailed map of Higgs boson interactions by the ATLAS experiment ten years after the discovery**

*Tuesday, 16 January 2024 15:30 (30 minutes)*

**Presenter:** BARRETO, Gonçalo

**Session Classification:** Session II

Contribution ID: 19

Type: **not specified**

# **Measurement of the Fluctuations in the Number of Muons in Extensive Air Showers with the Pierre Auger Observatory**

*Tuesday, 16 January 2024 16:00 (30 minutes)*

**Presenter:** PARENTE, Rafael

**Session Classification:** Session II

Contribution ID: 20

Type: **not specified**

# **Peta-electron volt gamma-ray emission from the Crab Nebula**

*Monday, 15 January 2024 10:00 (30 minutes)*

**Presenter:** NUNES, Madalena

**Session Classification:** Session I

Contribution ID: 21

Type: **not specified**

# **Constraining the sources of ultra-high-energy cosmic rays across and above the ankle with the spectrum and composition data measured at the Pierre Auger Observatory**

*Monday, 15 January 2024 10:30 (30 minutes)*

**Presenter:** DREYER, Iuna

**Session Classification:** Session I

Contribution ID: 22

Type: **not specified**

## **New Definition of the Neutrino Floor for Direct Dark Matter Searches**

*Monday, 15 January 2024 11:00 (30 minutes)*

**Presenter:** COSTA, Ana Beatriz

**Session Classification:** Session I



Contribution ID: 23

Type: **not specified**

## **First measurements of N-subjettiness in central Pb–Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV**

*Tuesday, 16 January 2024 16:30 (30 minutes)*

**Presenter:** FIGUEIREDO, Pedro

**Session Classification:** Session II

Contribution ID: 24

Type: **not specified**

## **Features of the Energy Spectrum of Cosmic Rays above $2.5 \times 10^{18}$ eV Using the Pierre Auger Observatory**

*Monday, 15 January 2024 11:30 (30 minutes)*

**Presenter:** MARTINS, Inês

**Session Classification:** Session I

Contribution ID: 25

Type: **not specified**

## **Measuring the Higgs self-coupling via Higgs-pair production at a 100 TeV p-p collider**

*Tuesday, 16 January 2024 14:30 (30 minutes)*

**Presenter:** ABREU, Manuel

**Session Classification:** Session II