

# Summer Student Program 2019 | Final Workshop



## Report of Contributions

Contribution ID: 1

Type: **not specified**

# **Gamma-ray astrophysics with current and future detectors**

*Wednesday, 4 September 2019 09:40 (20 minutes)*

**Presenter:** BLOTZ, Wagner

**Session Classification:** Session

Contribution ID: 2

Type: **not specified**

## **Selection of Helium nuclei using multivariate data analysis in AMS**

*Wednesday, 4 September 2019 16:10 (20 minutes)*

**Presenters:** LIMA, David; JESUS, José

**Session Classification:** Session

Contribution ID: 3

Type: **not specified**

## **Argon transparency to neutrons**

*Wednesday, 4 September 2019 10:00 (20 minutes)*

**Presenter:** OLIVEIRA, Leonardo

**Session Classification:** Session

Contribution ID: 4

Type: **not specified**

## **(pre)supernova signals in SNO+**

*Wednesday, 4 September 2019 10:20 (20 minutes)*

**Presenters:** MASCHIO, António; AVILLENZ, Miguel

**Session Classification:** Session

Contribution ID: 5

Type: **not specified**

## **Simulação e medida do fundo natural proveniente da terra e do céu**

*Wednesday, 4 September 2019 11:10 (20 minutes)*

**Presenter:** NUNES, José

**Session Classification:** Session

Contribution ID: 6

Type: **not specified**

## **Reações nucleares com feixes radioativos a energias relativistas**

*Wednesday, 4 September 2019 11:30 (20 minutes)*

**Presenter:** PIRES, Ricardo

**Session Classification:** Session

Contribution ID: 7

Type: **not specified**

## **Preparation and characterization of a thin target for nuclear physics experiments**

*Wednesday, 4 September 2019 11:50 (20 minutes)*

**Presenter:** BAPTISTA, Luísa

**Session Classification:** Session



Contribution ID: 8

Type: **not specified**

## **Simulation and data analysis of the R3B calorimeter CALIFA segments exposed to high energetic photons**

**Presenter:** REBELO, Joana

**Session Classification:** Session

Contribution ID: 9

Type: **not specified**

## **Desenvolvimento de um programa de simulação ótica de detetores de cintilação**

*Wednesday, 4 September 2019 16:50 (20 minutes)*

**Presenter:** MACHADO, Rudnei

**Session Classification:** Session

Contribution ID: 10

Type: **not specified**

# Quarkonia polarization method using a new fully unbinned fitting and background subtraction method

*Thursday, 5 September 2019 15:00 (20 minutes)*

**Presenters:** FRANCISCO, Albergaria; BORGES, Henrique

**Session Classification:** Session

Contribution ID: 11

Type: **not specified**

## **Performance of the ATLAS Trigger for the High Luminosity LHC era**

*Thursday, 5 September 2019 16:50 (20 minutes)*

**Presenters:** OSTAPCHUK, Dmytro; CRUZ, Filipe

**Session Classification:** Session

Contribution ID: 12

Type: **not specified**

## **High-precision timing detectors for HL-LHC**

*Wednesday, 4 September 2019 14:40 (20 minutes)*

**Presenters:** VÍLIA, Gonçalo; CARDOSO, Vítor

**Session Classification:** Session

Contribution ID: 13

Type: **not specified**

## **Simulação das propriedades óticas de plásticos cintiladores para dosimetria de elevada resolução**

*Wednesday, 4 September 2019 15:00 (20 minutes)*

**Presenter:** PIMENTA, Catarina

**Session Classification:** Session

Contribution ID: 14

Type: **not specified**

## **O plástico na física de partículas: cintiladores e fibras ópticas**

*Wednesday, 4 September 2019 15:50 (20 minutes)*

**Presenters:** LARANJINHA, Francisco; MIRANDA, Hugo; MUÑOZ, Ivan

**Session Classification:** Session

Contribution ID: 15

Type: **not specified**

## **Efficient modeling of optical photon propagation in SNO+**

**Presenter:** MAGALHAES, Samuel

**Session Classification:** Session



Contribution ID: 16

Type: **not specified**

## **Search for Supersymmetry with a machine-learning tool**

*Wednesday, 4 September 2019 16:30 (20 minutes)*

**Presenters:** OUDOT, Arthur; CABOS, Timothée

**Session Classification:** Session

Contribution ID: 17

Type: **not specified**

## **Física Experimental de Partículas com os detectores ATLAS, LUX e LZ**

*Thursday, 5 September 2019 09:20 (20 minutes)*

**Presenters:** SILVA, André; AZEVEDO, Tiago; FERREIRA, Ângelo

**Session Classification:** Session

Contribution ID: 18

Type: **not specified**

## **Muões num balão: medidas do fluxo de muões até à estratosfera**

*Thursday, 5 September 2019 09:40 (20 minutes)*

**Presenters:** MATOS, Bárbara; PARENTE, João; LEAL, Pedro

**Session Classification:** Session

Contribution ID: 19

Type: **not specified**

## **Simulações de Monte Carlo para preparar a procura de matéria escura na experiência LZ**

*Thursday, 5 September 2019 10:00 (20 minutes)*

**Presenters:** SIMÕES, Frederico; BRITO, Nuno

**Session Classification:** Session

Contribution ID: 20

Type: **not specified**

## **Explorar os dados públicos do Observatório Pierre Auger**

*Thursday, 5 September 2019 11:10 (20 minutes)*

**Presenters:** FREITAS, Osvaldo; BRANCO, Pedro; PASSOS, Pedro

**Session Classification:** Session

Contribution ID: 21

Type: **not specified**

## **Ampliação das funcionalidades de um visualizador gráfico 3D do Observatório Pierre Auger**

*Thursday, 5 September 2019 10:20 (20 minutes)*

**Presenters:** RAMALHO, Leonardo; NETO, Luís

**Session Classification:** Session

Contribution ID: 22

Type: **not specified**

## **Estudo da produção de bosões W em LHC usando dados públicos da colaboração ATLAS**

*Thursday, 5 September 2019 11:30 (20 minutes)*

**Presenters:** ALEXANDRA OLIVEIRA, Ana (LIP - Minho); ABREU, Leandro (LIP-Minho)

**Session Classification:** Session

Contribution ID: 23

Type: **not specified**

## **Pesquisa da produção de novos bosões $Z'$ em LHC usando dados públicos da colaboração ATLAS**

*Thursday, 5 September 2019 11:50 (20 minutes)*

**Presenters:** CÉU NEIVA, Maria (LIP-Minho); MORUJÃO, Nuno (LIP-Minho)

**Session Classification:** Session



Contribution ID: 24

Type: **not specified**

## **Medida da secção eficaz de produção de pares top/anti-top em LHC usando dados públicos da colaboração ATLAS**

*Thursday, 5 September 2019 12:10 (20 minutes)*

**Presenters:** PORTELA, Maria João (LIP-Minho); FERREIRA, Tomás (LIP-Minho)

**Session Classification:** Session

Contribution ID: 25

Type: **not specified**

## Exploring the Quark-Gluon Plasma

*Thursday, 5 September 2019 14:00 (20 minutes)*

**Presenters:** CORDEIRO, André; PINTO, Rafael; CARRÓLO, Sérgio; SILVA, Íris

**Session Classification:** Session

Contribution ID: 26

Type: **not specified**

## Probing Quark Gluon Plasma with b-Jets

*Thursday, 5 September 2019 14:20 (20 minutes)*

**Presenters:** REBANDA, Inês; GAZOLA, Rodrigo

**Session Classification:** Session

Contribution ID: 27

Type: **not specified**

## **Novel probes of the primordial QGP**

*Thursday, 5 September 2019 14:40 (20 minutes)*

**Presenters:** PARDAL, Alexandra; GONÇALVES, João

**Session Classification:** Session

Contribution ID: 28

Type: **not specified**

## **Development of novel reconstruction techniques for low-energy gamma-ray showers**

*Thursday, 5 September 2019 15:50 (20 minutes)*

**Presenters:** LÓIO, Hugo; LOURENÇO, Luís

**Session Classification:** Session

Contribution ID: 29

Type: **not specified**

## **AMBER - Physics simulations for a new experiment at CERN**

*Wednesday, 4 September 2019 14:00 (20 minutes)*

**Presenter:** SILVA, Rita

**Session Classification:** Session

Contribution ID: 30

Type: **not specified**

## **Exploring the Hidden Sector of Particle Physics at the SHiP experiment**

*Thursday, 5 September 2019 16:10 (20 minutes)*

**Presenter:** ARAÚJO, Beatriz

**Session Classification:** Session

Contribution ID: 31

Type: **not specified**

## **Search for New Physics in exclusive processes at the LHC**

*Thursday, 5 September 2019 16:30 (20 minutes)*

**Presenter:** GUERREIRO, Miguel

**Session Classification:** Session



Contribution ID: 32

Type: **not specified**

## **Study of the Higgs couplings to quarks at ATLAS**

*Wednesday, 4 September 2019 14:20 (20 minutes)*

**Presenter:** FERNANDES, Gonalo

**Session Classification:** Session

Contribution ID: **33**

Type: **not specified**

# Welcome

**Session Classification:** Session

Contribution ID: **34**

Type: **not specified**

## Welcome

*Wednesday, 4 September 2019 09:15 (5 minutes)*

**Presenter:** LEONARDO, Nuno (LIP)

Contribution ID: 35

Type: **not specified**

## Farewell

*Thursday, 5 September 2019 17:10 (5 minutes)*