

Final Workshop | LIP Internship Program'2020

Report of Contributions

Contribution ID: 1

Type: **not specified**

**1 - Métodos avançados de análise de dados na
pesquisa de matéria escura associada ao quark top no
Large Hadron Collider do CERN (Advanced data
analysis methods in dark matter searches associated
with top quark on the Large Hadron Collider at
CERN)**

Friday, 11 September 2020 15:00 (20 minutes)

Presenter: CAÇADOR PEIXOTO, Miguel

Session Classification: Session VII

Contribution ID: 2

Type: **not specified**

2 - Estudo das incertezas associadas ao uso de redes neuronais profundas em pesquisas de quarks vetoriais no Large Hadron Collider do CERN (Study of the uncertainties associated with the use of deep neural networks in vector quarks searches at the LHC)

Friday, 11 September 2020 15:20 (20 minutes)

Presenter: NOGUEIRA CUNHA, Gilberto Rui

Session Classification: Session VII

Contribution ID: 4

Type: **not specified**

4 - Muografia de um Edifício (Muography of a building)

Thursday, 10 September 2020 10:10 (20 minutes)

Presenters: AMORIM, Luis; DUARTE, Magda

Session Classification: Session I

Contribution ID: 5

Type: **not specified**

5 - Cálculo da secção eficaz de dispersão elástica electrão-neutrino com correções radiativas (Calculation of the electron-neutrino elastic cross-section with radiative corrections)

Thursday, 10 September 2020 17:00 (20 minutes)

Presenter: NOVO, João

Session Classification: Session IV

Contribution ID: 6

Type: **not specified**

6 - Heavy Flavour Jets Production in Pb+Pb Collisions with the ATLAS Detector

Friday, 11 September 2020 09:30 (20 minutes)

Presenter: MENDES, Vicente

Session Classification: Session V

Contribution ID: 7

Type: **not specified**

7 - Pointing Supernovae with SNO+

Thursday, 10 September 2020 17:20 (20 minutes)

Presenters: MIGUEZ, Diogo; MARQUES REIS WARDEN GÓIS, Maria Francisca

Session Classification: Session IV

Contribution ID: 8

Type: **not specified**

8 - Simulações de Monte Carlo para preparar a procura de matéria escura na experiência LZ (Monte Carlo simulations to prepare for dark matter searches at the LZ experiment)

Thursday, 10 September 2020 16:20 (20 minutes)

Presenters: PATRÍCIO FERNANDES, Pedro Miguel; RAMOS PINTO DE SOUSA, Tomás

Session Classification: Session IV

Contribution ID: 9

Type: **not specified**

9 - Decaimento beta duplo sem neutrinos (Neutrinoless double beta decay)

Thursday, 10 September 2020 16:40 (20 minutes)

Presenters: LESSA MACEDO, Helena; RODRIGUES SEQUEIRA, Inês; MARTINS, Tiago

Session Classification: Session IV

Contribution ID: **10**

Type: **not specified**

10 - Observação de muões cósmicos (Cosmic muons observation)

Thursday, 10 September 2020 15:20 (20 minutes)

Presenters: CASALINHO, Francisco; DUARTE MOTA, Joana Carolina; DE MATOS SIMÕES, Matilde

Session Classification: Session III

Contribution ID: 11

Type: **not specified**

11 - Física do quark top e do bosão de Higgs (Top quark and Higgs Boson Physics)

Friday, 11 September 2020 16:20 (20 minutes)

Presenters: NEVES PENA DE MORAIS SARMENTO, Mafalda; FERREIRA CAMPOS, Nuno Miguel; REBELO BRITO, Nuno Miguel

Session Classification: Session VIII

Contribution ID: 12

Type: **not specified**

12 - Muografia: usar muões cósmicos para estudar grandes estruturas (Muography: using cosmic muons to study large structures)

Thursday, 10 September 2020 10:30 (20 minutes)

Presenters: GONÇALVES, Diogo; PAIVA GOUVEIA, Gonçalo; PEREIRA, Joana

Session Classification: Session I

Contribution ID: 13

Type: **not specified**

13 - Testes do novo detetor de tempo de voo para experiência HADES. (Tests of the new time-of-flight detector for the HADES experiment.)

Thursday, 10 September 2020 15:00 (20 minutes)

Presenters: NEVES, Eduardo; VEIGA, Manuel

Session Classification: Session III

Contribution ID: 14

Type: **not specified**

14 - Physics with forward protons in the CMS experiment at the CERN LHC

Friday, 11 September 2020 17:00 (20 minutes)

Presenter: SILVA, Hilberto

Session Classification: Session VIII

Contribution ID: 15

Type: **not specified**

15 - Propriedades óticas de plásticos cintiladores para dosimetria de elevada resolução utilizando o FLUKA e dados. (Optical properties of plastic scintillators for high-resolution dosimetry using FLUKA and data)

Thursday, 10 September 2020 14:40 (20 minutes)

Presenter: PEREIRA, Lia

Session Classification: Session III

Contribution ID: 16

Type: **not specified**

16 - Estudo das propriedades dos hádrons através das suas interações na experiência AMBER (Study of hadron properties through their interactions at the AMBER experiment)

Friday, 11 September 2020 11:10 (20 minutes)

Presenter: LOPES MONTEIRO, Adriana Alexandra

Session Classification: Session VI

Contribution ID: 17

Type: **not specified**

17 - Study of the Higgs Properties at ATLAS

Friday, 11 September 2020 16:40 (20 minutes)

Presenter: HASLAM, Freya

Session Classification: Session VIII

Contribution ID: **18**

Type: **not specified**

18 - Exploring the Hidden Sector of Particle Physics at the SHiP experiment

Thursday, 10 September 2020 12:10 (20 minutes)

Presenters: MARECOS MILITÃO ROSADO SAFARA, Francisco Miguel; SANTOS, Raul

Session Classification: Session II

Contribution ID: 19

Type: **not specified**

19 - Muon tomography on Earth and on Mars

Thursday, 10 September 2020 11:50 (20 minutes)

Presenter: ÁLVARES PEREIRA LIMA GONÇALVES, Henrique Miguel

Session Classification: Session II

Contribution ID: 20

Type: **not specified**

20 - Functional test studies for the Engineering Qualification Model of RADEM, the radiation monitor for the ESA JUICE mission, using Monte Carlo analysis

Thursday, 10 September 2020 14:20 (20 minutes)

Presenter: FERREIRA TABORDA, Nuno Alberto

Session Classification: Session III

Contribution ID: 22

Type: **not specified**

22 - Machine learning methods to improve boosted Higgs boson tagging at ATLAS

Friday, 11 September 2020 15:40 (20 minutes)

Presenter: GALETSKY, Vladlen

Session Classification: Session VII

Contribution ID: 23

Type: **not specified**

23 - O charme escondido na Experiência COMPASS do CERN (The hidden charm in the COMPASS experiment at CERN)

Friday, 11 September 2020 11:30 (20 minutes)

Presenters: CALDAS PEREIRA CORTE-REAL, Catarina Miguel; RAMOS FELICIANO, Francisco

Session Classification: Session VI

Contribution ID: 24

Type: **not specified**

24 - Sistema de alta tensão do Tilecal (Tilecal high voltage system)

Friday, 11 September 2020 12:10 (20 minutes)

Presenter: MATOZA PIRES, Ricardo José

Session Classification: Session VI

Contribution ID: 25

Type: **not specified**

25 - COMPASS acceptance obtained using Machine Learning Techniques

Friday, 11 September 2020 14:20 (20 minutes)

Presenter: FRANCISCA QUEIRÓS, Maria

Session Classification: Session VII

Contribution ID: 26

Type: **not specified**

26 - Optical fibers applications

Thursday, 10 September 2020 15:40 (20 minutes)

Presenter: FERREIRA BATISTA, Eduardo José

Session Classification: Session III

Contribution ID: 27

Type: **not specified**

27 - Exploring the fast evolution of the Quark-Gluon Plasma

Friday, 11 September 2020 09:50 (20 minutes)

Presenters: GUILHERME MENDES, Ema Alexandra; GONCALVES, Marcelo

Session Classification: Session V

Contribution ID: 28

Type: **not specified**

28 - Hadron structure from nonperturbative QCD

Friday, 11 September 2020 10:10 (20 minutes)

Presenters: DE OLIVEIRA BENTO FERREIRA, Eduardo Pereira; MUNHOZ ÖSTERDAHL, Heitor

Session Classification: Session V

Contribution ID: 29

Type: **not specified**

29 - Heavy quark as probes of the primordial plasma

Friday, 11 September 2020 10:30 (20 minutes)

Presenters: MATOS SEMIÃO, Artur; FELICIANO FARIA, Maria Carolina

Session Classification: Session V

Contribution ID: **30**

Type: **not specified**

30 - Development of a next-generation detector concept to detect astrophysical gamma-rays

Thursday, 10 September 2020 11:10 (20 minutes)

Presenters: COSTA, Pedro; SOARES E RIBEIRO, Tomás

Session Classification: Session II

Contribution ID: **31**

Type: **not specified**

31 - Gamma-ray astrophysics with current and future detectors

Thursday, 10 September 2020 11:30 (20 minutes)

Presenters: MONSANTO DA ROCHA DAL PRÁ MASCHIO, António Vítor; COSTA, Camila

Session Classification: Session II

Contribution ID: 32

Type: **not specified**

32 - Optimization of scintillator-fibre coupling for future detectors

Friday, 11 September 2020 11:50 (20 minutes)

Presenters: NUNES, Mafalda; DE OLIVEIRA LAMEIRAS, Miguel; MACHADO, Rudnei

Session Classification: Session VI

Contribution ID: 33

Type: **not specified**

33 - Studying Jet Quenching Phenomenon using Deep Learning on Low-Level Variables

Friday, 11 September 2020 14:40 (20 minutes)

Presenter: PAES DE MIRANDA SZOLNOKY DA CUNHA, Filipe

Session Classification: Session VII

Contribution ID: 36

Type: **not specified**

36 - Study of the efficiency of muon identification algorithm with Tag and Probe method using CMS Open Data

Friday, 11 September 2020 17:20 (20 minutes)

Presenters: DA SILVA JALES, Allan; GAEHTGENS, Thomas

Session Classification: Session VIII

Contribution ID: 37

Type: **not specified**

37 - Raios cósmicos num só dia (Cosmic Rays in a single day)

Thursday, 10 September 2020 09:50 (20 minutes)

Presenters: FERNANDES GOUVEIA, Jorge Mariano; PEREIRA, Miguel

Session Classification: Session I