

LIP Summer Internship - Final Workshop

Report of Contributions

Contribution ID: 1

Type: **not specified**

Observing and measuring the first LHC neutrinos (ZOOM)

Thursday, 7 September 2023 09:30 (10 minutes)

Presenter: CLAUDIA PUERTAS

Session Classification: I

Contribution ID: 3

Type: **not specified**

À descoberta da natureza do neutrino: decaimento beta duplo sem neutrinos (ZOOM)

Thursday, 7 September 2023 10:22 (10 minutes)

Presenter: NUNO MANDEIRO, JOÃO RODRIGUES

Session Classification: I

Contribution ID: 4

Type: **not specified**

Energy calibration of SNO+ with scintillator

Thursday, 7 September 2023 10:09 (10 minutes)

Presenter: ANDRÉ RODRIGUES

Session Classification: I

Contribution ID: 5

Type: **not specified**

Measuring the neutron capture cross section of Argon - a feasibility study

Thursday, 7 September 2023 09:56 (10 minutes)

Presenter: CAROLINA MACHADO

Session Classification: I

Contribution ID: 6

Type: **not specified**

Participação no desenvolvimento de uma nova tecnologia de detecção de neutrões

Thursday, 7 September 2023 11:53 (15 minutes)

Presenter: DAVID MENDONÇA, ANA SANTOS, DANIEL MARMELO, JOSE BELEZA

Session Classification: II

Contribution ID: 7

Type: **not specified**

Portable cosmic ray telescopes based on RPCs (ZOOM)

Friday, 8 September 2023 11:48 (10 minutes)

Presenter: CAYETANO SONEIRA, VICTOR NOUVILAS

Session Classification: II

Contribution ID: 8

Type: **not specified**

Characterization of state-of-the-art instrumentaion for timing RPCs detectors

Thursday, 7 September 2023 11:40 (10 minutes)

Presenter: AFONSO BANDEIRA

Session Classification: II

Contribution ID: 12

Type: **not specified**

Detecção Directa de Matéria Escura com a Experiência LUX-ZEPLIN

Thursday, 7 September 2023 10:35 (15 minutes)

Presenter: LUÍS MELO, NICOLÁS TERRA, RAFAEL MARTINS, JOÃO SOUSA

Session Classification: I

Contribution ID: 13

Type: **not specified**

Higgs Physics at Future Colliders

Thursday, 7 September 2023 10:53 (15 minutes)

Presenter: RAFAEL AMADO, JOÃO SANTOS, MARIA MARQUES

Session Classification: I

Contribution ID: 14

Type: **not specified**

Visualization of 3D muography

Thursday, 7 September 2023 14:40 (15 minutes)

Presenter: RAFAEL CUNHA, GABRIEL COSTA, DIOGO RAMOS

Session Classification: III

Contribution ID: 15

Type: **not specified**

Muographying the city

Thursday, 7 September 2023 14:58 (10 minutes)

Presenter: CAROLINA SOBRAL, HENRIQUE CUNHA

Session Classification: III

Contribution ID: 16

Type: **not specified**

Quantum Machine Learning Applied to HEP: A Pragmatic Approach

Thursday, 7 September 2023 15:11 (10 minutes)

Presenters: SALGADO, Bruna; FELGUEIRAS, Catarina

Session Classification: III

Contribution ID: 17

Type: **not specified**

Anomaly detection as a tool for discovery the unexpected at colliders

Thursday, 7 September 2023 15:37 (10 minutes)

Presenter: DANIEL SOUSA, JOÃO FERREIRA, FÁBIO CARNEIRO

Session Classification: III

Contribution ID: 18

Type: **not specified**

Search for unexpected ATLAS events in fully hadronic events using anomaly detection techniques (ZOOM)

Thursday, 7 September 2023 12:24 (10 minutes)

Presenter: ALICE CARTRIDGE, OLIVIA SHUTER

Session Classification: II

Contribution ID: 19

Type: **not specified**

Estudo de processos de produção exclusiva no LHC através de algoritmos de Machine Learning

Friday, 8 September 2023 09:43 (10 minutes)

Presenter: FRANCISCO BALDÉ, ANDRÉ GOMES

Session Classification: I

Contribution ID: 20

Type: **not specified**

Experimental Data Analysis at ATLAS-LHC

Thursday, 7 September 2023 16:30 (10 minutes)

Presenter: SALVADOR TORPES

Session Classification: IV

Contribution ID: 21

Type: **not specified**

Development of safety algorithms for the ATLAS-HGTD

Thursday, 7 September 2023 16:43 (10 minutes)

Presenter: JOANA RODRIGUES

Session Classification: IV

Contribution ID: 22

Type: **not specified**

Comparison of Machine Learning algorithms applied to the search for rare processes in the LHC CMS data

Thursday, 7 September 2023 16:56 (10 minutes)

Presenter: DUARTE LOPES, TIAGO REBELO

Session Classification: IV

Contribution ID: 23

Type: **not specified**

Validation studies of Monte Carlo generators at ATLAS-LHC

Thursday, 7 September 2023 17:09 (10 minutes)

Presenter: LUCAS SILVA

Session Classification: IV

Contribution ID: 24

Type: **not specified**

Investigating the Flavour Anomalies with Machine Learning at LHC

Friday, 8 September 2023 09:30 (10 minutes)

Presenter: MADALENA FERREIRA, JOÃO SILVA

Session Classification: I

Contribution ID: 26

Type: **not specified**

Hyperfine interactions in heavy quarkonia and heavy-light mesons

Friday, 8 September 2023 10:22 (10 minutes)

Presenter: JOANA FERREIRA, VASCO VALVERDE

Session Classification: I

Contribution ID: 27

Type: **not specified**

Studying Higgs production at the LHC and at future colliders

Friday, 8 September 2023 09:56 (10 minutes)

Presenter: FONSECA, Sebastião

Session Classification: I

Contribution ID: 28

Type: **not specified**

Obtaining high-precision predictions for top-pair production at the LHC in perturbative QCD

Friday, 8 September 2023 10:09 (10 minutes)

Presenter: ANDRÉ ALVES

Session Classification: I

Contribution ID: 29

Type: **not specified**

Deciphering Jet Quenching Effects with Novel Analysis Tools

Friday, 8 September 2023 10:35 (10 minutes)

Presenter: JAY NESBITT

Session Classification: I

Contribution ID: **30**

Type: **not specified**

Novel probes of the primordial plasma (ZOOM)

Friday, 8 September 2023 10:48 (10 minutes)

Presenter: RODRIGO FERREIRA

Session Classification: I

Contribution ID: 31

Type: **not specified**

The combinatorial background of muon pairs in COMPASS

Thursday, 7 September 2023 17:22 (10 minutes)

Presenter: TIAGO ALEXANDRE

Session Classification: IV

Contribution ID: 32

Type: **not specified**

The hidden charm in the COMPASS and AMBER experiments at CERN

Thursday, 7 September 2023 17:35 (10 minutes)

Presenter: BÁRBARA PEREIRA

Session Classification: IV

Contribution ID: 33

Type: **not specified**

Upgrade of the ATLAS Tile Calorimeter High Voltage System (ZOOM)

Thursday, 7 September 2023 12:11 (10 minutes)

Presenter: RODRIGO PEREIRA, NUNO JORGE

Session Classification: II

Contribution ID: 35

Type: **not specified**

Variabilidade temporal do fluxo de raios cósmicos

Friday, 8 September 2023 12:01 (10 minutes)

Presenter: RAFAEL PARENTE, GUILHERME FAIAS

Session Classification: II

Contribution ID: 36

Type: **not specified**

Optimization of water Cherenkov detector for a next-generation gamma-ray observatory

Friday, 8 September 2023 12:14 (10 minutes)

Presenter: NUNO COSTA

Session Classification: II

Contribution ID: **38**

Type: **not specified**

Portable muon detection system with a scintillator-PMT based setup

Friday, 8 September 2023 11:35 (10 minutes)

Presenter: PEDRO COPETO

Session Classification: II

Contribution ID: 39

Type: **not specified**

Identifying relevant reactions for Nuclear Astrophysics

Friday, 8 September 2023 12:27 (10 minutes)

Presenter: DIMITRIS TSATSIS

Session Classification: II

Contribution ID: 40

Type: **not specified**

AI for characterization of thin films using RBS (ZOOM)

Friday, 8 September 2023 14:23 (10 minutes)

Presenter: BERNARDO SOARES

Session Classification: III

Contribution ID: 41

Type: **not specified**

Elastic scattering off radioactive nuclei at relativistic energies

Friday, 8 September 2023 14:36 (10 minutes)

Presenter: CATARINA SANTOS

Session Classification: III

Contribution ID: 42

Type: **not specified**

Gamma spectroscopy of radioactive nuclei (ZOOM)

Friday, 8 September 2023 14:49 (10 minutes)

Presenter: PEDRO BATISTA

Session Classification: III

Contribution ID: 43

Type: **not specified**

Target production

Friday, 8 September 2023 15:02 (10 minutes)

Presenter: INÊS MARQUES

Session Classification: III

Contribution ID: 44

Type: **not specified**

Developing a GUI for thin film characterization

Friday, 8 September 2023 15:15 (10 minutes)

Presenter: ALEXANDRE GUSMÃO

Session Classification: III

Contribution ID: 45

Type: **not specified**

AI for thin film characterization using AEL

Friday, 8 September 2023 15:28 (10 minutes)

Presenter: BÁBARA GALINDO

Session Classification: III

Contribution ID: 46

Type: **not specified**

TOPAS Automator

Friday, 8 September 2023 16:10 (10 minutes)

Presenter: TOMÁS TAVARES

Session Classification: IV

Contribution ID: 47

Type: **not specified**

Biophysical Modeling of the Ionizing Radiation Influence on Cells

Friday, 8 September 2023 16:23 (10 minutes)

Presenter: FRANCISCA AFONSO

Session Classification: IV

Contribution ID: 48

Type: **not specified**

Electronics adaptation for scintillation dosimeter

Friday, 8 September 2023 16:36 (10 minutes)

Presenter: DAVID ENCARNAÇÃO

Session Classification: IV

Contribution ID: 49

Type: **not specified**

Radiobiological phantom characterization

Friday, 8 September 2023 16:49 (10 minutes)

Presenter: JOÃO PEDRO VAZ

Session Classification: IV

Contribution ID: 50

Type: **not specified**

Quantum Machine Learning

Thursday, 7 September 2023 15:24 (10 minutes)

Presenter: GABRIEL DOMINGUES, PEDRO CARVALHO

Session Classification: III

Contribution ID: 52

Type: **not specified**

Anomaly Detection as a Valuable Tool for Uncovering Unexpected Phenomena at Colliders

Thursday, 7 September 2023 15:50 (10 minutes)

Presenter: SIMÃO CARDOSO

Session Classification: III

Contribution ID: 53

Type: **not specified**

Obtaining high-precision predictions for jet production at the LHC in perturbative QCD (ZOOM)

Friday, 8 September 2023 14:10 (10 minutes)

Presenter: HUGO AMARAL

Session Classification: III