

Final Workshop

Report of Contributions

Contribution ID: 1

Type: **not specified**

119 - Muography of a water-Cherenkov detector of the Pierre Auger Observatory

Thursday, 8 September 2022 10:32 (16 minutes)

Presenters: CATARINA DE ABREU FELGUEIRAS; DANIEL ANTÓNIO COELHO DE SOUSA

Session Classification: Session

Contribution ID: 2

Type: **not specified**

120 - Muon tomography from Coimbra to Lousal

Thursday, 8 September 2022 11:25 (16 minutes)

Presenters: ANDRÉ MORAIS; YANHAN ZHOU

Session Classification: Session

Contribution ID: 3

Type: **not specified**

103 - Sky watching in gamma rays: searching the Universe for High Energy processes

Thursday, 8 September 2022 12:09 (16 minutes)

Presenters: JOSÉ FERREIRA; MIGUEL GODINHO

Session Classification: Session

Contribution ID: 4

Type: **not specified**

124 - Probing the cosmic ray composition with SWGO

Thursday, 8 September 2022 09:56 (12 minutes)

Presenter: AFONSO ROMÃO JÚLIO GUERREIRO

Session Classification: Session

Contribution ID: 5

Type: **not specified**

136 - Variabilidade temporal do fluxo de raios cósmicos

Thursday, 8 September 2022 10:08 (12 minutes)

Presenter: RAFAEL PARENTE

Session Classification: Session

Contribution ID: 6

Type: **not specified**

137 - Identificação de isótopos no fluxo de raios cósmicos usando a construção de templates de massa a partir dos dados

Thursday, 8 September 2022 10:20 (12 minutes)

Presenter: DIOGO LEMOS

Session Classification: Session

Contribution ID: 9

Type: **not specified**

123 - Development of control systems for ProtoDUNE calibration instrumentation

Thursday, 8 September 2022 11:41 (12 minutes)

Presenter: GIL MADEIRA

Session Classification: Session

Contribution ID: 10

Type: **not specified**

106 - À descoberta da natureza do neutrino: decaimento beta duplo sem neutrinos

Thursday, 8 September 2022 11:53 (16 minutes)

Presenters: CARLOS BRITO; CLÁUDIA PEREIRA; DIOGO CAMPIZES

Session Classification: Session

Contribution ID: 11

Type: **not specified**

107 - Detecção Directa de Matéria Escura com a Experiência LUX-ZEPLIN

Thursday, 8 September 2022 09:40 (16 minutes)

Presenters: MARIANA LETRA; PAULO PIRES; PEDRO BARATA DE TOVAR CAETANO DE
SÁ

Session Classification: Session

Contribution ID: 12

Type: **not specified**

114 - Using Big Data to Study Geographical Variation in Antibiotic Prescription

Friday, 9 September 2022 17:24 (12 minutes)

Presenter: ARMANDO GONÇALVES

Session Classification: Session

Contribution ID: 13

Type: **not specified**

132 - Simulating cellular response to radiation

Thursday, 8 September 2022 14:30 (16 minutes)

Presenters: HANNAH SCHARFF; MARIA TEIXEIRA REBOUTA

Session Classification: Session

Contribution ID: 14

Type: **not specified**

110 - First Measurements with a scintillating fibre microdosimeter

Thursday, 8 September 2022 14:46 (12 minutes)

Presenter: BEATRIZ FERNANDES

Session Classification: Session

Contribution ID: 15

Type: **not specified**

111 - Performance of microdosimetric detectors using Monte-Carlo

Thursday, 8 September 2022 14:58 (16 minutes)

Presenters: FILIPE MIGUEL RODRIGUES RATO FICALHO; JUAN JOSE GOMEZ RODRIGUEZ

Session Classification: Session

Contribution ID: 16

Type: **not specified**

101 - Desenvolvimento de ferramentas de análise para uma câmara de nevoeiro

Thursday, 8 September 2022 15:14 (16 minutes)

Presenters: ALEXANDRE NUNES; JOÃO COSTA; LUÍS FILIPE MELO

Session Classification: Session

Contribution ID: 18

Type: **not specified**

109 - Atomic data calculations and their application in kilonovae modeling

Thursday, 8 September 2022 16:00 (12 minutes)

Presenter: JOSÉ FILIPE AFONSO

Session Classification: Session

Contribution ID: 19

Type: **not specified**

133 - Simulation of stellar explosions and stellar nucleosynthesis

Thursday, 8 September 2022 16:12 (12 minutes)

Presenter: MADALENA VENTURA GAMBOA

Session Classification: Session

Contribution ID: 20

Type: **not specified**

129 - Measuring the Sky

Thursday, 8 September 2022 16:24 (12 minutes)

Presenter: OZGUR OZER

Session Classification: Session

Contribution ID: 21

Type: **not specified**

130 - nRPC simulation with TOPAS

Thursday, 8 September 2022 16:36 (12 minutes)

Presenter: CAROLINA FELGUEIRAS

Session Classification: Session

Contribution ID: 22

Type: **not specified**

131 - Target preparation at FCUL

Thursday, 8 September 2022 17:00 (16 minutes)

Presenters: MARGARIDA CONTENTE PAULINO; RAQUEL FREITAS NUNES

Session Classification: Session

Contribution ID: 23

Type: **not specified**

118 - Building a QCD parton shower

Friday, 9 September 2022 10:18 (16 minutes)

Presenters: ANA CAROLINA RIBEIRO; DIOGO JOSÉ BRITO DA COSTA

Session Classification: Session

Contribution ID: 25

Type: **not specified**

126 - Novel probes of the primordial plasma

Friday, 9 September 2022 10:02 (16 minutes)

Presenters: JEAN LUO; SIMÃO MOREIRA COSTA

Session Classification: Session

Contribution ID: 26

Type: **not specified**

125 - Investigating the Flavor Anomalies

Friday, 9 September 2022 09:30 (16 minutes)

Presenters: MANUEL ABREU; SÓNIA AZEVEDO

Session Classification: Session

Contribution ID: 27

Type: **not specified**

99 - Pinning down QCD contributions to flavor anomalies

Friday, 9 September 2022 09:46 (16 minutes)

Presenters: JOÃO PEDRO ANACLETO GALUPA; PAU PETIT ROSAS

Session Classification: Session

Contribution ID: 28

Type: **not specified**

100 - Probing the vacuum with di-Higgs production

Friday, 9 September 2022 11:20 (16 minutes)

Presenters: DIOGO NUNES; FRANCISCO CASALINHO

Session Classification: Session

Contribution ID: 29

Type: **not specified**

116 - Search for New Phenomena in the Top quark sector using Anomaly Detection in the ATLAS/LHC Experiment

Friday, 9 September 2022 11:36 (16 minutes)

Presenters: INÊS GALES ALVES CORREIA PINTO; JOAN DOS SANTOS KLADNIK

Session Classification: Session

Contribution ID: 30

Type: **not specified**

117 - Anomaly Detection in all-hadronic boosted final states

Friday, 9 September 2022 11:52 (12 minutes)

Presenter: JUNDA TONG

Session Classification: Session

Contribution ID: 31

Type: **not specified**

127 - First studies with SND@LHC

Friday, 9 September 2022 12:04 (16 minutes)

Presenters: BRUNO MIGUEL CAETANO SEMIÃO; PEDRO MANUEL NOGUEIRA DE FIGUEIREDO

Session Classification: Session

Contribution ID: 32

Type: **not specified**

143 - Distinguishing decay processes for Heavy Neutral Leptons with Machine Learning at SHiP

Friday, 9 September 2022 12:20 (12 minutes)

Presenter: RUI DAVID MARTINHO SANTOS

Session Classification: Session

Contribution ID: 33

Type: **not specified**

128 - Quantum computing and quantum machine learning at High Energy Physics

Friday, 9 September 2022 14:42 (16 minutes)

Presenters: MARIA GABRIELA JORDÃO OLIVEIRA; MIGUEL CAÇADOR PEIXOTO

Session Classification: Session

Contribution ID: 34

Type: **not specified**

141 - Autoencoders as a tool for unsupervised searches at the LHC

Friday, 9 September 2022 14:30 (12 minutes)

Presenter: JHONATHAN BARRIOS

Session Classification: Session

Contribution ID: 35

Type: **not specified**

113 - Identification of kaons using Neural Networks in COMPASS and AMBER experiments at CERN

Friday, 9 September 2022 14:58 (12 minutes)

Presenter: GUILHERME AMARAL

Session Classification: Session

Contribution ID: 36

Type: **not specified**

105 - Estudo da produção central e exclusiva de pares tau-tau no LHC

Friday, 9 September 2022 15:10 (16 minutes)

Presenters: ALEXANDRE MARTINS NABAIS PIRES ANDRÉ; MANUEL AFONSO DOS SANTOS RATOLA; PEDRO MIGUEL CARVALHO BATISTA

Session Classification: Session

Contribution ID: 38

Type: **not specified**

140 - Explorando os dados públicos de ATLAS

Friday, 9 September 2022 15:26 (16 minutes)

Presenters: BEATRIZ DE JESUS GOMES ALMEIDA DA SILVA; BRUNA FILIPA COUTO LIMA

Session Classification: Session

Contribution ID: 39

Type: **not specified**

98 - Characterization of state-of-the-art instrumentation for timing RPC detectors

Friday, 9 September 2022 16:32 (16 minutes)

Presenters: IARA RAQUEL SÁ NEVES; INÊS FIGUEIREDO AIRES; JOSÉ VINÍCIUS ROCHA DE ALENCAR

Session Classification: Session

Contribution ID: 40

Type: **not specified**

121 - Upgrade of the ATLAS Tile Calorimeter High Voltage System

Friday, 9 September 2022 17:00 (12 minutes)

Presenter: TIAGO COSTA

Session Classification: Session

Contribution ID: 41

Type: **not specified**

104 - Participação no desenvolvimento de um conceito inovador de detetor de neutrões

Friday, 9 September 2022 16:48 (12 minutes)

Presenter: CAROLINA FERNANDES

Session Classification: Session

Contribution ID: 42

Type: **not specified**

115 - Study of new scintillator samples for future detectors

Friday, 9 September 2022 17:12 (12 minutes)

Presenter: CHRISTIAN TANGA

Session Classification: Session

Contribution ID: 43

Type: **not specified**

135 - Novos materiais cintilantes para futuros detectores de partículas

Friday, 9 September 2022 16:20 (12 minutes)

Presenter: PEDRO MIGUEL MENDES PEREIRA

Session Classification: Session

Contribution ID: 44

Type: **not specified**

142 - Simulating a Co-60 source for an irradiation facility

Thursday, 8 September 2022 16:48 (12 minutes)

Presenter: AFONSO CABRITA

Session Classification: Session