

Final Workshop

Thursday, 8 September 2022

Session: 1 (09:40 - 10:50)

-Conveners: Nuno Leonardo

| time | [id] title | presenter |
|-------|---|--|
| 09:40 | [11] 107 - Detecção Directa de Matéria Escura com a Experiência LUX-ZEPLIN | MARIANA LETRA PAULO PIRES PEDRO BARATA DE TOVAR CAETANO DE SÁ |
| 09:56 | [4] 124 - Probing the cosmic ray composition with SWGO | AFONSO ROMÃO JÚLIO GUERREIRO |
| 10:08 | [5] 136 - Variabilidade temporal do fluxo de raios cósmicos | RAFAEL PARENTE |
| 10:20 | [6] 137 - Identificação de isótopos no fluxo de raios cósmicos usando a construção de templates de massa a partir dos dados | DIOGO LEMOS |
| 10:32 | [1] 119 - Muography of a water-Cherenkov detector of the Pierre Auger Observatory | CATARINA DE ABREU FELGUEIRAS DANIEL ANTÓNIO COELHO DE SOUSA |

Session: 2 (11:25 - 12:25)

-Conveners: Alexandre Lindote

| time | [id] title | presenter |
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| 11:25 | [2] 120 - Muon tomography from Coimbra to Lousal | ANDRÉ MORAIS YANHAN ZHOU |
| 11:41 | [9] 123 - Development of control systems for ProtoDUNE calibration instrumentation | GIL MADEIRA |
| 11:53 | [10] 106 - À descoberta da natureza do neutrino: decaimento beta duplo sem neutrinos | CARLOS BRITO CLÁUDIA PEREIRA DIOGO CAMPIZES |
| 12:09 | [3] 103 - Sky watching in gamma rays: searching the Universe for High Energy processes | JOSÉ FERREIRA MIGUEL GODINHO |

Session: 3 (14:30 - 15:30)

-Conveners: Pamela Teubig

| time | [id] title | presenter |
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| 14:30 | [13] 132 - Simulating cellular response to radiation | HANNAH SCHARFF MARIA TEIXEIRA REBOUTA |
| 14:46 | [14] 110 - First Measurements with a scintillating fibre microdosimeter | BEATRIZ FERNANDES |
| 14:58 | [15] 111 - Performance of microdosimetric detectors using Monte-Carlo | FILIFE MIGUEL RODRIGUES RATO FICALHO JUAN JOSE GOMEZ RODRIGUEZ |

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| 15:14 | [16] 101 - Desenvolvimento de ferramentas de análise para uma câmara de nevoeiro | ALEXANDRE NUNES JOÃO COSTA LUÍS FILIPE MELO |
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Session: 4 (16:00 - 17:20)**-Conveners: Rute Pedro**

| time | [id] title | presenter |
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| 16:00 | [18] 109 - Atomic data calculations and their application in kilonovae modeling | JOSÉ FILIPE AFONSO |
| 16:12 | [19] 133 - Simulation of stellar explosions and stellar nucleosynthesis | MADALENA VENTURA GAMBOA |
| 16:24 | [20] 129 - Measuring the Sky | OZGUR OZER |
| 16:36 | [21] 130 - nRPC simulation with TOPAS | CAROLINA FELGUEIRAS |
| 16:48 | [44] 142 - Simulating a Co-60 source for an irradiation facility | AFONSO CABRITA |
| 17:00 | [22] 131 - Target preparation at FCUL | MARGARIDA CONTENTE PAULINO RAQUEL FREITAS NUNES |

Friday, 9 September 2022

Session: 5 (09:30 - 10:35)

-Conveners: Alfred Stadler

| time | [id] title | presenter |
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| 09:30 | [26] 125 - Investigating the Flavor Anomalies | MANUEL ABREU SÓNIA AZEVEDO |
| 09:46 | [27] 99 - Pinning down QCD contributions to flavor anomalies | JOÃO PEDRO ANACLETO GALUPA PAU PETIT ROSAS |
| 10:02 | [25] 126 - Novel probes of the primordial plasma | JEAN LUO SIMÃO MOREIRA COSTA |
| 10:18 | [23] 118 - Building a QCD parton shower | ANA CAROLINA RIBEIRO DIOGO JOSÉ BRITO DA COSTA |

Session: 6 (11:20 - 12:40)

-Conveners: Liliana Apolinário

| time | [id] title | presenter |
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| 11:20 | [28] 100 - Probing the vacuum with di-Higgs production | DIOGO NUNES FRANCISCO CASALINHO |
| 11:36 | [29] 116 - Search for New Phenomena in the Top quark sector using Anomaly Detection in the ATLAS/LHC Experiment | INÊS GALES ALVES CORREIA PINTO JOAN DOS SANTOS KLADNIK |
| 11:52 | [30] 117 - Anomaly Detection in all-hadronic boosted final states | JUNDA TONG |
| 12:04 | [31] 127 - First studies with SND@LHC | BRUNO MIGUEL CAETANO SEMIÃO PEDRO MANUEL NOGUEIRA DE FIGUEIREDO |
| 12:20 | [32] 143 - Distinguishing decay processes for Heavy Neutral Leptons with Machine Learning at SHiP | RUI DAVID MARTINHO SANTOS |

Session: 7 (14:30 - 15:50)

-Conveners: Raul Sarmiento

| time | [id] title | presenter |
|-------|---|---|
| 14:30 | [34] 141 - Autoencoders as a tool for unsupervised searches at the LHC | JHONATHAN BARRIOS |
| 14:42 | [33] 128 - Quantum computing and quantum machine learning at High Energy Physics | MARIA GABRIELA JORDÃO OLIVEIRA MIGUEL CAÇADOR PEIXOTO |
| 14:58 | [35] 113 - Identification of kaons using Neural Networks in COMPASS and AMBER experiments at CERN | GUILHERME AMARAL |

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| 15:10 | [36] 105 - Estudo da produção central e exclusiva de pares tau-tau no LHC | ALEXANDRE MARTINS NABAIS PIRES ANDRÉ MANUEL AFONSO DOS SANTOS RATOLA PEDRO MIGUEL CARVALHO BATISTA |
| 15:26 | [38] 140 - Explorando os dados públicos de ATLAS | BEATRIZ DE JESUS GOMES ALMEIDA DA SILVA BRUNA FILIPA COUTO LIMA |

Session: 8 (16:20 - 17:40)**-Conveners: Luis Margato**

| time | [id] title | presenter |
|-------|---|--|
| 16:20 | [43] 135 - Novos materiais cintilantes para futuros detectores de partículas | PEDRO MIGUEL MENDES PEREIRA |
| 16:32 | [39] 98 - Characterization of state-of-the-art instrumentation for timing RPC detectors | IARA RAQUEL SÁ NEVES INÊS FIGUEIREDO AIRES JOSÉ VINÍCIUS ROCHA DE ALENCAR |
| 16:48 | [41] 104 - Participação no desenvolvimento de um conceito inovador de detetor de neutrões | CAROLINA FERNANDES |
| 17:00 | [40] 121 - Upgrade of the ATLAS Tile Calorimeter High Voltage System | TIAGO COSTA |
| 17:12 | [42] 115 - Study of new scintillator samples for future detectors | CHRISTIAN TANGA |
| 17:24 | [12] 114 - Using Big Data to Study Geographical Variation in Antibiotic Prescription | ARMANDO GONÇALVES |