

7th IDPASC/LIP PhD Students Workshop

Wednesday, July 6, 2022

Scientific session: 1 (10:50 AM - 11:40 AM)

-Conveners: Ricardo Gonalo

time	[id] title	presenter
10:50 AM	[1] Cosmic Rays Outreach	AFONSO, Luis
11:02 AM	[5] Muons acceleration in plasma-based accelerators	BADIALI, Chiara
11:14 AM	[8] Probing CP couplings in $t\bar{t}X$ production at the Run 3 of the LHC	CHALBAUD, Esteban
11:26 AM	[11] Jetography in Heavy Ion Collisions	CORDEIRO, Andr�

Scientific session: 2 (12:10 PM - 1:35 PM)

-Conveners: Francisco Neves

time	[id] title	presenter
12:10 PM	[16] Searching for new particles with astrophysical compact objects	FILHO, Etevaldo
12:22 PM	[12] Astroparticle multi-messenger physics	COSTA, Pedro
12:34 PM	[9] Destructive potential of low-dose proton therapy (LDPT) on neurodegeneration disorders	COELHO, Carina
12:46 PM	[13] Top quark physics and search for physics beyond the Standard Model at the Large Hadron Collider	DA MOLIN, Giacomo
12:58 PM	[2] Modeling the radiobiological effects of gold nanoparticles in proton therapy of glioblastomas	ANTUNES, Joana
1:10 PM	[7] New Radiobiological and Nanodosimetric Insights into Proton Therapy	CANHOTO, Jo�o
1:22 PM	[14] Using Machine Learning to Scan Beyond Standard Model Parameter Spaces	SOUZA, Fernando

Scientific session: 3 (2:40 PM - 4:05 PM)

-Conveners: Filipe Veloso

time	[id] title	presenter
2:40 PM	[24] RADIATION HARDNESS OF PLASTIC SCINTILLATING MATERIALS FOR SCINTILLATOR CALORIMETERS	MACHADO , Rudnei
2:52 PM	[17] Enhanced Searches with the Pierre Auger Observatory in the Era of Multi-messenger Astrophysics	FERNANDES, Alexandra
3:04 PM	[18] Accelerating the ATLAS Trigger system with Graphical Processing Units	FERNANDES, Nuno
3:16 PM	[20] Going to the light-front with contour deformations	FERREIRA, Eduardo
3:28 PM	[36] Development of microdosimetric detectors for radiobiology in hadron therapy facilities	RODRIGUES, Cristiana
3:40 PM	[40] Measurement of Collider Neutrinos with the SND@LHC Experiment	SOARES, Guilherme

3:52 PM	[43] Searches For Higgs Boson Pair Production In Final States With Two Bottom Quarks And Two Tau Leptons At The LHC	WULFF, Johan
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Scientific session: 4 (4:35 PM - 5:25 PM)**-Conveners: Sofia Andringa**

time	[id] title	presenter
4:35 PM	[48] Disentangling and Quantifying the Quark Gluon Plasma with Generative Deep Learning	GONÇALVES, João Pedro Arruda
4:47 PM	[22] Measurement of PeVatrons with the future Southern Wide-field Gamma-ray Observatory (SWGGO)	GIBILISCO, Lucio
4:59 PM	[25] Tweaking gravity	GONÇALVES, Tiago
5:11 PM	[21] The motion of S2	FOSCHI, Arianna

Thursday, July 7, 2022

Scientific session: 5 (9:30 AM - 10:55 AM)

-Conveners: Claudio Frederico Pascoal da Silva

time	[id] title	presenter
9:30 AM	[19] The Smallest Warm Little Inflaton	FERRAZ, Paulo
9:43 AM	[41] Double pulse generator for discharge plasmas for particle accelerators	TORRADO, Nuno
9:55 AM	[42] Pentaquarks in a Bethe-Salpeter approach	TORRES ROJAS, Luis Raul
10:08 AM	[39] Towards a yoctosecond imaging tool of the Quark-Gluon Plasma	SILVA, João Martins
10:23 AM	[23] Muography for Underground Geological Surveys: ongoing application at the Lousal Mine (Portugal)	TEIXEIRA, Pedro
10:40 AM	[49] Testing Unified Dark matter-energy models in the non-linear regime	CASTELÃO, Diogo

Scientific session: 6 (11:25 AM - 12:40 PM)

-Conveners: Filomena Santos

time	[id] title	presenter
11:25 AM	[4] N-body simulations of primordial dark matter halos	BACHS ESTEBAN, Joan
11:40 AM	[30] Implementation of a portable PET scanner for proton therapy beam quality assessment	MAGALHÃES, Catarina
11:52 AM	[33] Radiation damage of the optical components in Scintillator Detector: from the ATLAS/LHC Tile Calorimeter to future experiments	PEREIRA, Beatriz
12:07 PM	[10] Phase-2 Tracking for ITk based on ACTS and Higgs self-coupling	COELHO, Luis
12:22 PM	[31] Proton Therapy - Bragg Peak monitoring through Prompt-Gamma: Detection and Instrumentation	VENÂNCIO, José

Scientific session: 7 (2:25 PM - 3:55 PM)

-Conveners: Nuno Barros

time	[id] title	presenter
2:25 PM	[15] Generalizing models with variations of the fine-structure constant driven by scalar fields: extended Bekenstein model coupled to the dark sector	DIAS, João
2:40 PM	[32] Higgs-Dilaton inflation in Einstein-Cartan gravity	PIANI, Matteo
2:55 PM	[34] Central Exclusive Production at the LHC within the CMS Collaboration	PISANO, Matteo
3:10 PM	[35] Polarimetric Studies of Galaxies	RINO-SILVESTRE, João
3:25 PM	[28] Scintillation dosimetry with plastic optical fibres	GUERREIRO, Duarte
3:40 PM	[38] A next-generation gamma-ray observatory powered by Machine Learning techniques	GONZALEZ, Borja

Scientific session: 8 (4:25 PM - 5:55 PM)

-Conveners: Nuno Castro

time	[id] title	presenter
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4:25 PM	[37] Shadows of Kerr black holes with Proca hair	SENGO, Ivo
4:40 PM	[26] Extending the SMEFT	GUEDES, Guilherme
4:55 PM	[29] Diluting quark flavor hierarchies using dihedral symmetry	LEVY, Miguel
5:10 PM	[6] Searching for dark matter with the ATLAS detector using unconventional signatures	BARROS, Maura
5:25 PM	[50] The ATLAS jet trigger and the search for CP violation in WH production	BARRUÉ, Ricardo
5:40 PM	[3] Dynamics of hadron formation	ARAUJO, Mariana