

2019

Journal Paper with direct contribution

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6. Automatic Design of Artificial Neural Networks for Gamma-Ray Detection Filipe Assunção, João Correia, Rúben Conceição, Mário Pimenta, Bernardo Tomé, Nuno Lourenço, Penousal Machado *IEEE Access*, Vol 7 (2019) 110531 10.1109/ACCESS.2019.2933947
7. Constraints on Neutrino Lifetime from the Sudbury Neutrino Observatory B. Aharmim et al. (SNO Collaboration) Barros, Maneira, *Prior Phys. Rev. D* 99, 032013 10.1103/PhysRevD.99.032013
8. Development of a Directionality Detector for RADEM, the Radiation Hard Electron Monitor aboard the JUICE Mission M. Pinto, P. Gonçalves, W. Hadjas, A. Marques, J. Costa Pinto Accepted for publication on *IEEE Transactions on Nuclear Science* on 04 Oct 2018, 10.1109/TNS.2019.2900398 10.1109/TNS.2019.2900398
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10. Search for invisible modes of nucleon decay in water with the SNO+ detector M. Anderson et al. (The SNO+ Collaboration) *Phys. Rev. D* 99, 032008 10.1103/PhysRevD.99.032008

11. GUIMesh: a tool to import STEP geometries into Geant4 via GDML M. Pinto, P. Gonçalves accepted for publication on Computer Physics Communications, 10.1016/j.cpc.2019.01.024 10.1016/j.cpc.2019.01.024
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47. Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS ATLAS collaboration (2924 authors) Phys.Lett. B789 (2019) 167-190 10.1016/j.physletb.2018.12.023
48. Search for dark matter particles produced in association with a top quark pair at $\sqrt{s} = 13$ TeV CMS collaboration (2304 authors) Phys.Rev.Lett. 122 (2019) 011803 10.1103/PhysRevLett.122.011803
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Thesis / Dissertation

PhD Thesis

- An efficient particle physics data analysis framework for homogeneous and heterogeneous platforms
- Study of ground state properties of halo nuclei via quasi-free scattering reactions at the R3B setup at GSI
- Development of a Directionality Detector and Radiation analysis for RADEM, a RADiation hard Electron Monitor for the JUICE mission

Master Thesis

1. Scintillation detectors for dosimetric monitoring in interventional cardiology
2. New observables and techniques for the study of jets in hadron collisions
3. Study of the exclusive production of the top quark in the CMS experiment
4. Searching for jet quenching in small systems
5. Topic modelling for jets
6. Thermal Study of a Module for SWGO (Southern Hemisphere Wide field-of-view Gamma-ray Observatory)
7. Conception of a Tissue Equivalent Plastic Dosimeter Using Scintillating Fibres for Hadronic Therapy and Space Radiation Effects Studies
8. Probing the quark gluon plasma medium through B meson production measurements in PbPb collisions at the LHC

9. The impact of electric field distortion on CP violation studies: study of space charge effects on protoDUNE
10. Machine Learning in Analytical Chemistry: Applying Innovative Data Analysis Methods Using Chromatographic Techniques
11. Estudo da resposta dosimétrica de cintiladores plásticos em feixes de prótons
12. Analysis of in-flight data on the AlphaSat radiation Environment Effects Facility
13. PlaCor: Plataforma para a Computação Orientada ao Recurso
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Conference Paper

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- Unveiling the yoctosecond structure of the QGP with top quarks Liliana Apolinário, Guilherme Milhano, Carlos A. Salgado, Gavin P. Salam Nucl.Phys. A982 (2019) 795-798 10.1016/j.nuclphysa.2018.11.014
- Overview of jet quenching and energy loss in heavy-ion collisions Liliana Apolinário PoS LHCP2018 (2018) 219 10.22323/1.321.0219
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- OPENCoastS: on-Demand Forecast Tool for Management, Marta Rodrigues, João Rogeiro, Samuel Bernardo, Anabela Oliveira, André B. Fortunato, Joana Teixeira, Pedro Lopes, Alberto Azevedo, Jorge Gomes, Mário David, João Pina, in Proceedings of the Fourteenth International MEDCOAST Congress on Coastal and Marine Sciences, Engineering Management and Conservation MEDCOAST 2019, 22-26 October 2019, Marmaris, turkey, ISBN: 978-605-69747-0-0
- The ATLAS Hardware Track Trigger design towards first prototypes, A. L. Carvarlho on behalf of the ATLAS Collaboration, PoS (LeptonPhoton2019) 166., 10.22323/1.367.0166
- Jet Measurements in Heavy Ion Collisions with the ATLAS Experiment, Helena Santos, Proceedings of Science (PoS) ATL-PHYS-PROC-2019-127
- Measurements of Higgs boson production using decays to two b-quarks with the ATLAS detector, R. Pedro, ATL-PHYS-PROC-2019-119
- First results of the CORSIKA 8 air shower simulation framework, D. Melo, M. Reininghaus, F. Riehn, R. Ulrich, PoS(ICRC2019)399, proceedings of the ICRC2019, in Proceedings of Science <https://pos.sissa.it/358>
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- The sub-TeV transient Gamma-Ray sky: challenges and opportunities, G. La Mura, P. Assis, A. Blanco, R. Conceição, P. Fonte, L. Lopes, M. Pimenta, B. Tomé, C. Espírito Santo, L. Mendes, M. Ferreira, P. Abreu, P. Brogueira, L.F. Mendes, F. Barão, U. Barres de Almeida, R. Shellard, U. Giaccari, O. Lippmann, B. D'Ettorre Piazzoli, M. Doro, E. Prandini, C. Perennes, G. Matthiae, M. Tavani, R. Santonico, A. De Angelis, R.L. Coto, A. Chiavassa, J. Vicha, P. Travnicek and G. Di Sciascio, PoS(ICRC2019)721, proceedings of the ICRC2019, in Proceedings of Science <https://pos.sissa.it/358>
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- Probing the pion spectrum at high-x in proton-Air interactions at ultra-high energies, Lorenzo Cazon, Ruben Conceição, Miguel da Silva Martins, and Felix Riehn, EPJ Web of Conferences 210, 02006 (2019), 10.1051/epjconf/201921002006
- Average shape of longitudinal shower profiles measured at the Pierre Auger Observatory, Sofia Andringa and on behalf of the Pierre Auger Collaboration, Proceedings of UHECR2018, EPJ Web of Conferences, Volume 210 (2019), 10.1051/epjconf/201921002015
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- Jets in QCD matter: Monte Carlo approaches, Liliana Apolinário, PoS HardProbes2018 (2019) 022, 10.22323/1.345.0022
- The SNO+ Experiment, V. Lozza for the SNO+ Collaboration, Proceedings of the 5th International Solar Neutrino Conference, pp. 313-328 (2019), 10.1142/9789811204296_0019
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- Overview of Heavy Ions from the ATLAS Experiment, Helena Santos, on behalf of the ATLAS Collaboration, Acta Physica Polonica B, Vol. 50 (2019), DOI:10.5506/APhysPolB.50.1217
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- Study of scintillating fibers response to low energy protons, D. Guerreiro, L. Peralta, D. Galaviz, J. G. Saraiva, J. M. Sampaio, P. Teubig, 3rd International Conference on Dosimetry and its Applications (ICDA-3)

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