

# 2019

## Journal Paper with direct contribution

1. A. Oliveira, A.B. Fortunato, J. Rogeiro, J. Teixeira, A. Azevedo, L. Lavaud, X. Bertin, J. Gomes, M. David, J. Pina, M. Rodrigues, P. Lopes, OPENCoastS: An open-access service for the automatic generation of coastal forecast systems, *Environmental Modelling & Software*, 2019, 104585, ISSN 1364-8152, <https://doi.org/10.1016/j.envsoft.2019.104585>.
2. Hydrophobic confinement modulates thermal stability and assists knotting in the folding of tangled proteins, *Physical Chemistry Chemical Physics*, 2019, DOI: 10.1039/C9CP01701A
3. F.J.A.L. Cruz, Saman Alavi, J.P.B. Mota, "Low-temperature Thermodynamic Study of the Metastable Empty Clathrate Hydrates using Molecular Simulations", *ACS. Earth Space Chem.* 3 (2019) 789
4. Oliveira A.; Rodrigues, M.; Rogeiro, J.; Fortunato, A. B.; Teixeira, J.; Azevedo, A.; Lopes, P. (2019) OPENCoastS: An Open-Access App for Sharing Coastal Prediction Information for Management and Recreation. In: Rodrigues J. et al. (eds) *Computational Science – ICCS 2019. ICCS 2019. Lecture Notes in Computer Science*, vol 11540. Springer, [https://doi.org/10.1007/978-3-030-04849-5\\_44](https://doi.org/10.1007/978-3-030-04849-5_44)
5. Anabela Oliveira, André Fortunato, João Rogeiro, Joana Teixeira, Alberto Azevedo, Laura Lavaud, Xavier Bertin, Jorge Humberto Lúcio Oliveira Gomes, Mario David, Joao Pina, Marta Rodrigues, Pedro Lopes (2019) OPENCoastS: an open-access service for the automatic generation of coastal forecast systems. In: *ENVSOFT\_2019\_458\_R1* (Accepted, Ready for Decision)
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
9. Gravitational wave and collider probes of extended Higgs sectors with a low cutoff Mikael Chala (Durham U., IPPP), Maria Ramos (LIP, Minho), Michael Spannowsky (Durham U., IPPP) *Eur. Phys. J. C* (2019) 79: 156 10.1140/epjc/s10052-019-6655-1
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
12.  $\beta$  decay of  $^{133}\text{In}$  :  $\gamma$  emission from neutron-unbound states in  $^{133}\text{Sn}$  M. Piersa, et al. Phys. Rev. C 99, 024304 (2019) 10.1103/PhysRevC.99.024304
13. Measurement of the 8B solar neutrino flux in SNO+ with very low backgrounds M. Anderson et al. (SNO+ Collaboration) Phys. Rev. D 99, 012012 (2019) 10.1103/PhysRevD.99.012012
14. Boron-10 lined RPCs for sub-millimeter resolution thermal neutron detectors: Feasibility study in a thermal neutron beam L.M.S. Margato, A. Morozov, A. Blanco, P. Fonte, F.A.F. Fraga, B. Guerard, R. Hall-Wilton, C. Höglunde, A. Mangiarotti, L. Robinson, S. Schmidt and K. Zeitelhack 2019 JINST 14 P01017 10.1088/1748-0221/14/01/P01017
15. Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector ATLAS collaboration (2925 authors) Phys.Lett. B788 (2019) 347-370 10.1016/j.physletb.2018.11.032
16. Measurement of the Gamma Ray Background in the Davis Cavern at the Sanford Underground Research Facility, D. Akerib et al, Astroparticle Physics Volume 116, 2020, 102391, 10.1016/j.astropartphys.2019.102391
17. Hadronic interaction model sibyll 2.3 c and inclusive lepton fluxes, Anatoli Fedynitch, Felix Riehn, Ralph Engel, Thomas K. Gaisser, and Todor Stanev, Phys. Rev. D 100, 103018, 10.1103/PhysRevD.100.103018
18. Role of the  $t(\bar{t})$  rest frame in direct top-quark Yukawa coupling measurements, Andrea Ferroglia, Miguel C. N. Fiolhais, Emanuel Gouveia, and António Onofre, Phys. Rev. D 100, 075034, 10.1103/PhysRevD.100.075034
19. Calculations for deep inelastic scattering using fast interpolation grid techniques at NNLO in QCD and the extraction of  $\alpha_s$  from HERA data, D. Britzger, J. Currie, A. Gehrmann-De Ridder, T. Gehrmann, E.W.N. Glover, C. Gwenlan, A. Huss, T. Morgan, J. Niehues, J. Pires, K. Rabbertz, M.R. Sutton, Eur.Phys.J. C79 (2019) no.10, 845, 10.1140/epjc/s10052-019-7351-x
20. Beam test results of the RADEM Engineering Model, M.Pinto, P. Gonçalves, P. Socha, W. Hajdas, A. Marques, J.Costa Pinto, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 10.1016/j.nima.2019.162795
21. Dark Matter Benchmark Models for Early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum, D. Abercrombie et al. Phys. Dark Univ. 27 (2020) 100371, 10.1016/j.dark.2019.100371
22. Measurement of  $B\text{-}s(0)$  meson production in  $pp$  and  $PbPb$  collisions at  $\sqrt{s_{NN}}=5.02$  TeV, CMS Collaboration (2263 authors), Phys. Lett. B 796 (2019) 168-190, 10.1016/j.physletb.2019.07.014
23. Differential Dijet Cross Section at the LHC, Aude Gehrmann-De Ridder, Thomas Gehrmann, E.W.N. Glover, Alexander Huss, Joao Pires, Phys. Rev. Lett. 123, 102001 (2019), 10.1103/PhysRevLett.123.102001
24. Improved measurements of the  $\beta$  -decay response of liquid xenon with the LUX detector, D Akerib et al, Phys. Rev. D 100, 022002, 2019, 10.1103/PhysRevD.100.022002

25. Long term experience in Autonomous Stations and production quality control, L. Lopes, A. B. Alves, P. Assis, A. Blanco, N. Carolino, M. A. Cerda, R. Conceição, O. Cunha, C. Dobrigkeit, M. Ferreira, P. Fonte, L. de Almeida, R. Luz, V. B. Martins, L. Mendes, J. C. Nogueira, A. Pereira, M. Pimenta, R. Sarmento, V. de Souza, B. Tomé, J. Instrum. 14 (2019) C07002, 10.1088/1748-0221/14/07/C07002
26. Numerical modeling of cosmic-ray transport in the heliosphere and interpretation of proton and helium fluxes in Solar Cycle 24, N. Tomassetti, F. Barao, B. Bertucci, E. Fiandrini, M. Orcinha, Advances in Cosmic-Ray Astrophysics and Related Areas, Volume 64, Issue 12, (2019), 10.1016/j.asr.2019.06.025
27. Transverse extension of partons in the proton probed in the sea-quark range by measuring the DVCS cross section, COMPASS Collaboration (225 authors), Phys.Lett.B 793 (2019) 188-194, 10.1016/j.physletb.2019.04.038
28. Measurement of the average shape of longitudinal profiles of cosmic ray air-showers at the Pierre Auger Observatory, The Pierre Auger Collaboration, A. Aab et al, J. Cosmol. Astropart. Phys. 3 (2019) 018, 10.1088/1475-7516/2019/03/018
29. Measurement of PT-weighted Sivers asymmetries in lepton production of hadrons, COMPASS Collaboration (205 authors), Nucl. Phys. B 940 (2019) 34-53, 10.1016/j.nuclphysb.2018.12.024
30. PICOSEC-Micromegas: Robustness measurements and study of different photocathode materials, M. Gallinaro et al., J.Phys.Conf.Ser. 1312 (2019) no.1, 012012
31. Constraints on Neutrino Lifetime from the Sudbury Neutrino Observatory, B. Aharmim et al. (SNO Collaboration), Phys. Rev. D 99, 032013 (2019), 10.1103/PhysRevD.99.032013
32. 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, IEEE Transactions on Nuclear Science Volume: 66 Issue: 7, 1770 - 1777, 10.1109/TNS.2019.2900398
33. Compton polarimetry with a multi-layer CdTe focal plane prototype, M. Moita, E. Caroli, J.M. Maia, R.M. Curado da Silva, N. Auricchio, J.B. Stephen, M. Páscoa, A.M.F. Trindade, Nucl. Instr. Meth. A, Vol. 918, 2019, pp. 93-98, 10.1016/j.nima.2018.10.192
34. Gravitational wave and collider probes of extended Higgs sectors with a low cutoff, Mikael Chala (Durham U., IPPP), Maria Ramos (LIP, Minho), Michael Spannowsky (Durham U., IPPP), Eur. Phys. J. C (2019) 79: 156, 10.1140/epjc/s10052-019-6655-1
35. Search for invisible modes of nucleon decay in water with the SNO+ detector, M. Anderson et al. (SNO+ Collaboration), Phys. Rev. D 99, 032008 (2019), 10.1103/PhysRevD.99.032008
36. GUIMesh: a tool to import STEP geometries into Geant4 via GDML, M. Pinto, P. Gonçalves, Computer Physics Communications, Volume 239, June 2019, Pages 150-156, 10.1016/j.cpc.2019.01.024
37. Measurement of the 8B solar neutrino flux in SNO+ with very low backgrounds, M. Anderson et al. (SNO+ Collaboration), Phys. Rev. D 99, 012012 (2019), 10.1103/PhysRevD.99.012012
38. Measurement of proton induced gamma-ray emission cross sections on Na from 1.0 to 4.1 MeV, M. Chiari, et al., Nucl. Instr. and Meth. in Phys. B 441, 108 (2019), 10.1016/j.nimb.2017.01.043

39. Properties of the CsI(Tl) detector elements of the CALIFA detector A. Knyazev, et al., Nucl. Instr. and Meth. in Phys. A 940, 393 (2019) 10.1016/j.nima.2019.06.045
40. Measurement of neutron production in atmospheric neutrino interactions at the Sudbury Neutrino Observatory SNO Collaboration Phys. Rev. D 99, 112007 (2019) 10.1103/PhysRevD.99.112007
41. Tests of Lorentz invariance at the Sudbury Neutrino Observatory SNO collaboration Phys.Rev. D98 (2018) 112013 10.1103/PhysRevD.98.112013
42. Tests of Lorentz invariance at the Sudbury Neutrino Observatory SNO collaboration Phys.Rev. D98 (2018) 112013 10.1103/PhysRevD.98.112013
43. Tests of Lorentz invariance at the Sudbury Neutrino Observatory B. Aharmim et al. (SNO Collaboration) Phys. Rev. D 98, 112013 10.1103/PhysRevD.98.112013
44. Measurement of differential cross sections for Z boson pair production in association with jets at  $\sqrt{s} = 8$  and 13 TeV CMS collaboration (2303 authors) Phys.Lett. B789 (2019) 19-44 10.1016/j.physletb.2018.11.007
45. Correlated long-range mixed-harmonic fluctuations measured in  $pp$ ,  $p+Pb$  and low-multiplicity Pb+Pb collisions with the ATLAS detector ATLAS collaboration (2925 authors) Phys.Lett. B789 (2019) 444-471 10.1016/j.physletb.2018.11.065
46. Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the  $H \rightarrow WW^{*} \rightarrow e \mu \mu$  decay channel in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector ATLAS collaboration (2935 authors) Phys.Lett. B789 (2019) 508-529 10.1016/j.physletb.2018.11.064
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
49. Search for light resonances decaying to boosted quark pairs and produced in association with a photon or a jet in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector ATLAS collaboration (2885 authors) Phys.Lett. B788 (2019) 316-335 10.1016/j.physletb.2018.09.062
50. Seleção de Atributos de Dados Inconsistentes em ambiente HDF5+Python na cloud INCD; João Apolónia, Luís Cavique, Universidade Aberta, DCeT <https://repositorioaberto.uab.pt/bitstream/10400.2/8912/1/184-Texto%20Artigo-680-1-10-20191206.pdf>
51. Search for Higgs boson pair production in the  $\gamma\gamma$  final state in  $pp$  collisions at  $\sqrt{s} = 13$  TeV CMS collaboration (2285 authors) Phys.Lett. B788 (2019) 7-36 10.1016/j.physletb.2018.10.056
52. Measurement of differential cross sections for inclusive isolated-photon and photon+jets production in proton-proton collisions at  $\sqrt{s} = 13$  TeV CMS collaboration (2299 authors) Eur.Phys.J. C79 (2019) 20 10.1140/epjc/s10052-018-6482-9
53. Search for heavy charged long-lived particles in proton-proton collisions at  $\sqrt{s} = 13$  TeV using an ionisation measurement with the ATLAS detector ATLAS collaboration (2933 authors) Phys.Lett. B788 (2019) 96-116 10.1016/j.physletb.2018.10.055

54. Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV CMS collaboration (2292 authors) Phys.Rev. D99 (2019) 012005 10.1103/PhysRevD.99.012005
55. Search for pair production of Higgs bosons in the  $\bar{b}b$  final state using proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector ATLAS collaboration (2901 authors) JHEP 1901 (2019) 030 10.1007/JHEP01(2019)030
56. Electroluminescence TPCs at the Thermal Diffusion Limit NEXT collaboration (81 authors) JHEP 1901 (2019) 027 10.1007/JHEP01(2019)027
57. Search for long-lived particles in final states with displaced dimuon vertices in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector ATLAS collaboration (2920 authors) Phys.Rev. D99 (2019) 012001 10.1103/PhysRevD.99.012001
58. Search for heavy Majorana or Dirac neutrinos and right-handed  $W$  gauge bosons in final states with two charged leptons and two jets at  $\sqrt{s} = 13$  TeV with the ATLAS detector ATLAS collaboration (2924 authors) JHEP 1901 (2019) 016 10.1007/JHEP01(2019)016
59. Transitioning from recruit to officer: An investigation of how stress appraisal and coping influence work engagement, Rodrigues, S, Sinval, J, Queirós, C, Marôco, J, Kaiseler, M., Int J Select Assess. 2019; 27: 152– 168. <https://doi.org/10.1111/ijsa.12238>

# 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
14. Treino de redes neuronais profundas de forma distribuída
15. Bento, Andre. Observing and controlling performance in microservices. Diss. Universidade de Coimbra, 2019.
16. Marta Afonso Morgadinho Martins "Atributos genómicos e fenotípicos que influenciam a ocorrência de *Saccharomyces cerevisiae* como microorganismo patogénico oportunista. Dissertação Mestrado em Microbiologia Médica" 2019.
17. Santos, C. 2019. Estado atual das populações de berbigão (*Cerastoderma* spp) no estuário do Sado. Mestrado em Ecologia e Gestão Ambiental, Universidade de Lisboa, Faculdade de Ciências. 64 pp.
18. Ferreira, M. 2019. Movement patterns of the Wels catfish (*Silurus glanis*) in River Tagus: implications for the management of aquatic systems. Mestrado em Biologia da Conservação, Universidade de Lisboa, Faculdade de Ciências. 45 pp.

## Conference Paper

- SNO+ present results and prospects S. Andringa on behalf of the SNO+ Collaboration Proceedings of BEACH 2018 - XIII International Conference on Beauty, Charm and Hyperon Hadrons, (June 2018, Peniche, Portugal), Conf. Series 1137 (2019) 012053 doi:10.1088/1742-6596/1137/1/012053
- 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
- GERAÇÃO AUTOMÁTICA DE SISTEMAS DE PREVISÃO COSTEIRA: A PLATAFORMA OPENCOASTS André B. FORTUNATO, João ROGEIRO, Joana TEIXEIRA, Anabela OLIVEIRA, Alberto AZEVEDO, Xavier BERTIN, Laura LAVAUD, Mário DAVID, João PINA, Jorge GOMES, Sonia CASTANEDO, Fernando MENDEZ, Pedro LOPES, Marta RODRIGUES André B. FORTUNATO, João ROGEIRO, Joana TEIXEIRA, Anabela OLIVEIRA, Alberto AZEVEDO, Xavier BERTIN, Laura LAVAUD, Mário DAVID, João PINA, Jorge GOMES, Sonia CASTANEDO, Fernando MENDEZ, Pedro LOPES, Marta RODRIGUES; GERAÇÃO AUTOMÁTICA DE SISTEMAS DE PREVISÃO COSTEIRA: A PLATAFORMA OPENCOASTS; IX Congresso sobre Planeamento e Gestão de das Zonas Costeiras, Lisboa 2019
- Benchmarking Deep Learning Infrastructures by Means of TensorFlow and Containers, Valentin Kozlov, Isabel Campos, Mário David, Jorge Gomes, Alvaro Lopez Garcia, ISC 2019 Workshops, LNCS 11887

- 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>
- 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>
- Probing High-Energy Hadronic Interactions with Extensive Air Showers, L. Cazon, PoS(ICRC2019)005, proceedings of the ICRC2019, in Proceedings of Science <https://pos.sissa.it/358>
- Measurement of the fluctuations in the number of muons in inclined air showers with the Pierre Auger Observatory, Felix Riehn for the Pierre Auger Collaboration, PoS(ICRC2019)404, proceedings of the ICRC2019, in Proceedings of Science <https://pos.sissa.it/358>
- 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>
- Probing the High Energy Spectrum of Neutral Pions in Ultra-high-energy Proton-Air Interactions, L. Cazon, R. Conceição, M. Martins and F. Riehn, PoS(ICRC2019)226, proceedings of the ICRC2019, in Proceedings of Science <https://pos.sissa.it/358>
- Working Group Report on the Combined Analysis of Muon Density Measurements from Eight Air Shower Experiments, Lorenzo Cazon, for the EAS-MSU, IceCube, KASCADE-Grande, NEVOD-DECOR, Pierre Auger, SUGAR, Telescope Array, and Yakutsk EAS Array collaborations, Pos(ICRC2019)214, proceedings of the ICRC2019, in Proceedings of Science <https://pos.sissa.it/358>

- Results on quarkonia production in Heavy Ion collisions from the ATLAS Experiment, Helena Santos (for the ATLAS Collaboration), J PHYS CONF SER 1137 (2019) UNSP 012046, 10.1088/1742-6596/1137/1/012046
- 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
- Measurements and tests of hadronic interactions at ultra-high energies with the Pierre Auger Observatory, Lorenzo Cazon on behalf of the Pierre Auger Collaboration, EPJ Web of Conferences 210, 02002 (2019), 10.1051/epjconf/201921002002
- 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
- High-z proton and kaon multiplicity ratios on deuteron target in SIDIS, M. Stolarski on behalf of COMPASS Coll., PoS DIS2019 (2019) 207, 10.22323/1.352.0207
- 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
- SNO+ present results and prospects, S. Andringa on behalf of the SNO+ Collaboration, Proceedings of BEACH 2018 - XIII International Conference on Beauty, Charm and Hyperon Hadrons, (June 2018, Peniche, Portugal), Conf. Series 1137 (2019) 012053, 10.1088/1742-6596/1137/1/012053
- Flavor physics & beyond, a concluding review, N. Leonardo, JPCS 1137 (2019) 012060
- Recent highlights in top quark and Higgs boson physics from the LHC, R. Gonçalo on behalf of the ATLAS and CMS Collaborations, J. Phys.: Conf. Ser. 1137 011001 (2019); ATL-PHYSPROC-2018-109, in Proceedings of BEACH 2018 □ XIII International Conference on Beauty, 17 □ 24 June, 10.1088/1742-6596/1137/1/011001
- Searches for Higgs bosons with dark matter at the Large Hadron Collider, M. Gallinaro (for the ATLAS and CMS collaborations), PoS CHARGED2018 (2019) 024, <https://pos.sissa.it/339/024>
- Measurements and tests of hadronic interactions at ultra-high energies with the Pierre Auger Observatory, Lorenzo Cazon for the Pierre Auger Collaboration, Proceedings of UHECR2018 held in Paris from 8-12 October 2018
- Results on quarkonia production in Heavy Ion collisions from the ATLAS Experiment, Helena Santos (for the ATLAS Collaboration), J PHYS CONF SER 1137 (2019) UNSP 012046, 10.1088/1742-6596/1137/1/012046
- 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)



- pMC a fast-low energy proton simulation program, Duarte Gurreiro, Luis Peralta, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisboa 27-31 maio 2019
- 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
- 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
- Measurements and tests of hadronic interactions at ultra-high energies with the Pierre Auger Observatory, Lorenzo Cazon on behalf of the Pierre Auger Collaboration, EPJ Web of Conferences 210, 02002 (2019), 10.1051/epjconf/201921002002
- 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
- High-z proton and kaon multiplicity ratios on deuteron target in SIDIS, M. Stolarski on behalf of COMPASS Coll., PoS DIS2019 (2019) 207, 10.22323/1.352.0207
- 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
- LUMIN: Lumin Unifies Many Improvements for Networks, G. Strong, 10.5281/zenodo.2601857
- SNO+ present results and prospects, S. Andringa on behalf of the SNO+ Collaboration, Proceedings of BEACH 2018 - XIII International Conference on Beauty, Charm and Hyperon Hadrons, (June 2018, Peniche, Portugal), Conf. Series1137 (2019) 012053, 10.1088/1742-6596/1137/1/012053
- Recent highlights in top quark and Higgs boson physics from the LHC, R. Gonçalo on behalf of the ATLAS and CMS Collaborations, J. Phys.: Conf. Ser. 1137 011001 (2019); ATL-PHYSPROC-2018-109, in Proceedings of BEACH 2018 XIII International Conference on Beauty, 17-24 June, 10.1088/1742-6596/1137/1/011001
- Flavor physics & beyond, a concluding review, N.Leonardo, J.Phys.Conf.Ser. 1137 (2019) 012060,
- 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
- Searches for Higgs bosons with dark matter at the Large Hadron Collider, M. Gallinaro (for the ATLAS and CMS collaborations), PoS CHARGED2018 (2019) 024
- Measurements and tests of hadronic interactions at ultra-high energies with the Pierre Auger Observatory, Lorenzo Cazon for the Pierre Auger Collaboration, Proceedings of UHECR2018 held in Paris from 8-12 October 2018

# Conference Poster

- Rootless Containers with Udocker, Jorge Gomes, Mário David, João Paulo Martins, João Pina, Isabel Campos, Alvaro López Garcia, Pablo Orviz, Valentin Kozlov, ISC 2019 High Performance, Frankfurt Germany,  
[https://ssl.linklings.net/conferences/isc\\_hpc/assets/2019/posters/proj111.pdf](https://ssl.linklings.net/conferences/isc_hpc/assets/2019/posters/proj111.pdf)
- Backgrounds Analysis for the SNO+ Experiment, Valentina Lozza, TAUP 2019 - Topics in Astroparticle and Underground Physics

---

Revision #38

Created 31 October 2019 14:27:23 by João Pina

Updated 9 September 2024 15:31:46 by João Pina