

2020

International Paper with refere

1. Nogueira PJ, de Araújo Nobre M, Nicola PJ, Furtado C, Vaz Carneiro A. Excess Mortality Estimation During the COVID-19 Pandemic: Preliminary Data from Portugal. *Acta Med Port* [Internet]. 2020 Jun. 1 [cited 2023 Jan. 23];33(6):376-83. <https://doi.org/10.20344/amp.13928>
2. Assunção, Hugo, et al. "University student engagement inventory (USEI): transcultural validity evidence across four continents." *Frontiers in Psychology* 10 (2020): 2796. <https://doi.org/10.3389/fpsyg.2019.02796>
3. Sinval, Jorge, and João Marôco. "Short index of job satisfaction: Validity evidence from Portugal and Brazil." *PLoS One* 15.4 (2020): e0231474. <https://doi.org/10.1371/journal.pone.0231474>
4. Marôco, João, et al. "Predictors of academic efficacy and dropout intention in university students: Can engagement suppress burnout?." *PLoS One* 15.10 (2020): e0239816. <https://doi.org/10.1371/journal.pone.0239816>
5. Nogueira, Paulo Jorge, et al. "The role of health preconditions on COVID-19 deaths in Portugal: evidence from surveillance data of the first 20293 infection cases." *Journal of Clinical Medicine* 9.8 (2020): 2368. <https://doi.org/10.3390/jcm9082368>
6. Manso J., Marcelino J., Caldeira L. (2018). Crushing and oedometer compression of rockfill using DEM. *Computers and geotechnics* - 101 (2018): 11-22.
7. Manso J., Marcelino J., Caldeira L. (2019). Effect of the clump size for bonded particle model on the uniaxial and tensile strength ratio of rock. *International Journal of Rock Mechanics and Mining Sciences* - 114 (2019): 131-140.
8. Manso J., Marcelino J., Caldeira L. (2020). Single-particle crushing strength under different relative humidity conditions. *Acta Geotechnica* (2020): 1-13.
9. Borges et al, 2020 (*Emerging Microbes and Infections*); <https://doi.org/10.1080/22221751.2020.1844552>
10. jorge Sinval et all. "Development of the Referee Shared Mental Models Measure (RSMMM)" *Front. Psychol.*, 19 October 2020 | <https://doi.org/10.3389/fpsyg.2020.550271>
11. jorge Sinval et all. "Measurement Invariance of the Burnout Assessment Tool (BAT) Across Seven C", *Int. J. Environ. Res. Public Health* 2020, 17(15), 5604; <https://doi.org/10.3390/ijerph17155604> - 03 Aug 2020
12. Joao Maroco et all. "Validation of the Portuguese version of the Community Assessment of Psychic Experiences and characterization of psychotic experiences in a Brazilian sample" *Braz J Psychiatry*. 2020 xxx-xxx;00(00):000-000 doi:10.1590/1516-4446-2019-0611

13. Sílvia Monteiro, Leandro Almeida, Cristiano Gomes & Jorge Sinval (2020): Employability profiles of higher education graduates: a person-oriented approach, *Studies in Higher Education*, DOI: 10.1080/03075079.2020.1761785
14. Vila-Cerqueira P, Mamede R, Silva M, Carriço JA, Ramirez, M. 2020. Chewie-NS: Enabling the use of gene-by-gene typing methods through a public and centralized service.(Oral presentation). *Bioinformatic Open Days*, Universidade do Minho, Braga, Portugal, 19-21 February.
15. A. Nahon, A.B. Fortunato, A. Azevedo, F.S.B.F. Oliveira, J.N.C. Oliveira, J. Rogeiro, G. Jesus, A. Oliveira, P.A. Silva and P. Freire, 2020. Implementation and validation of an operational forecasting system for nearshore hydrodynamics with OPENCoastS. *Atas das 6as Jornadas de Engenharia Hidrográfica / 1as Jornadas Luso-Espanholas de Hidrografia. 6.as Jornadas de Engenharia Hidrográfica / 1.as Jornadas Luso-Espanholas de Hidrografia*, 03, 04 e 05 de novembro de 2020, 203-206, Instituto Hidrográfico, Lisboa.
16. Orue-Echevarría, D., Castellanos, P., Sans, J., Emelianov, M., Vallés-Casanova, I., and Pelegrí, J. L. 2019. Temperature spatio-temporal correlation scales in the Brazil Malvinas Confluence from high-resolution in-situ and remote sensing data. *Geophysical Research Letter*. <https://doi.org/10.1029/2019GL084246>
17. Cabral, S., Carvalho, F., Gaspar, M., Ramajal, J., Sá, E., Santos, C., Silva, G., Sousa, A., Costa, J.L., Chainho, P. 2019. Non-indigenous species in soft-sediments: Are some estuaries more invaded than others? *Ecological Indicators*. In press. <https://doi.org/10.1016/j.ecolind.2019.105640>
18. Ferreira, A., Garrido-Amador, P., Brito, A.C. (2019). Disentangling environmental drivers of phytoplankton biomass off Western Iberia. *Frontiers in Marine Science*, 6:44. <https://doi.org/10.3389/fmars.2019.00044>
19. Ferreira, A., Garrido-Amador, P., Brito, A.C. (2019). Disentangling environmental drivers of phytoplankton biomass off Western Iberia. *Frontiers in Marine Science*, 6:44. <https://doi.org/10.3389/fmars.2019.00044>
20. Brito, A.C., Garrido-Amador, P., Gameiro, C., Nogueira, M., Moita, M.T., Cabrita, M.T. (2020). Integrating in situ and ocean color data to evaluate ecological quality under the Water Framework Directive. *Water*, 12, 3443.
21. Ferreira, A., Brotas, V., Palma, C., Borges, C., Brito, A.C. (in review). Assessing phytoplankton bloom phenology in upwelling-influenced regions using ocean colour remote sensing. *Remote Sensing*
22. Sent, G., Biguino, B., Favareto, L., Cruz, J., Sá, C., Dogliotti, A., Brotas, V., Brito, A.C. (in review). Deriving water quality parameters using Sentinel-2 imagery: A case study in the Sado estuary, Portugal. *Remote Sensing*.
23. Afonso, I., E. Berecibar, N. Castro, J.L. Costa, P. Frias, P. Moreira, P. Oliveira, F. Henriques, G. Silva & P. Chainho. (2020). Assessment of the colonization and dispersal success of non-indigenous species introduced in recreational marinas. *Ecological Indicators* 113: 106147. <https://doi.org/10.1016/j.ecolind.2020.106147>
24. Vieira, S., P. Barrulas, P. Chainho C. Dias, K. Sroczynska & H. Adão (accepted). Multi-element composition as a tool for spatial and temporal habitat discrimination of the non-indigenous clam *Ruditapes philippinarum* (Adam & Reeve, 1850) populations. *Ecological Indicators*.

25. Monteiro, R.M., Domingos, I., Almeida, P.R., Costa, J.L., Alexandre, C.M., Quintella, B.R. 2020. Migration and escapement of silver eel males, *Anguilla anguilla*, from a southwestern European river. *Ecology of Freshwater Fish*, 29: 679-692.
<https://onlinelibrary.wiley.com/doi/abs/10.1111/eff.12545>
26. Santis, W., Castellanos, P., Campos, E. J. D. 2020. Memory effect within the Southern Atlantic Subtropical Dipole variability. *Journal of Climate*. Vol 33, nº 17. 7679-7696. DOI: 10.1175/JCLI-D-19-0745.1
27. Orue-Echevarría, D., Pelegrí, J. L., Castellanos, P., Guallar, C., Marotta, H., Marrasé., Martín, J., Masdeu-Navarro, M., Paniagua, G.F., Peña Izquierdo, J., Puigdefábregas, J., Rodríguez-Fonseca, B., Roget, E., Rosell-Fieschi, M., Salat, J., Salvador, J., Vallés-Casanova, I., Vidal, M., Viúdez, A. 2020. Dataset on the RETRO-BMC cruise onboard the R/V Hespérides, April 2017, Brazil-Malvinas Confluence. *Data in Brief* Vol.30,105412.
<https://doi.org/10.1016/j.dib.2020.105412>
28. <https://journals.aps.org/prd/abstract/10.1103/PhysRevD.102.101504>
29. <https://journals.aps.org/prd/abstract/10.1103/PhysRevD.103.024020>
30. <https://journals.aps.org/prd/abstract/10.1103/PhysRevD.102.124009>
31. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0239816>
32. <https://www.frontiersin.org/articles/10.3389/fpsyg.2019.02796/full#fun1>
33. Pereira, C., Maranhã, J. R. e Cardoso R. (2020). DEM analysis of some effects due to capillary forces in sands. *E-Unsat 2020*, Lisbon.
34. Maria Adriana Cardoso, Maria Céu Almeida, Rita S. Brito, João L. Gomes, Paula Beceiro, Anabela Oliveira (2020). 1D/2D stormwater modelling to support urban flood risk management in estuarine areas: Hazard assessment in the Dafundo case study. *Journal of Flood Risk Management*, <https://doi.org/10.1111/jfr3.12663>, 13(3).
35. Oliveira A, Fortunato AB, Rogeiro J., Teixeira J, Azevedo A, Lavaud L, Bertin A, Gomes J, David M, Pina J, Rodrigues M, Lopes P, OPENCoastS: An open-access service for the automatic generation of coastal forecast systems, 2020, *Environmental Modelling & Software*, 124, 104585
36. F.J.A.L. Cruz and J.P.B. Mota, "Equilibrium and Transport Distributions of a DNA Dodecamer in Hydrophilic Nanopores", *Materials Today: Proceedings 2020*, 20, 249.
37. P. Lopes, A. Oliveira, C. Pereira, R. S. Brito, M. A. Cardoso, R. Martins , M. David, J. Gomes, J. Pina (2019). "RESCCUE RAF app - an IT solution for digital interactive urban resilience assessment", 10th Iberian Grid Conference (IBERGRID), 23rd September 2019, Santiago de Compostela, Spain.
38. P. Lopes, A. Oliveira, C. Pereira, R. S. Brito, M. A. Cardoso, R. Martins , M. David, J. Gomes, J. Pina (2020). "RESCCUE RAF App - Using Technology to Mitigate Climate Change Urban Impacts" submitted to MIPRO 2020 - International Convention on Information, Communication and Electronic Technology, 28th September - 2nd October, Opatija, Croatia.
39. Carapeto A., Francisco A., Pereira P., Porto M. (eds.). (2020). *Lista Vermelha da Flora Vasculare de Portugal Continental*. Sociedade Portuguesa de Botânica, Associação Portuguesa de Ciência da Vegetação - PHYTOS e Instituto da Conservação da Natureza e das Florestas (coord.). Coleção «Botânica em Português», Volume 7. Lisboa: Imprensa Nacional, 374 pp.

40. G. Aad et al. (ATLAS Collaboration), Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Phys. Rev. D 102, 112008 – Published 17 December 2020, <https://doi.org/10.1103/PhysRevD.102.112008>
41. Y. Ito, T. Tochio, M. Yamashita, S. Fukushima, A. M. Vlaicu, J. P. Marques, J. M. Sampaio, M. Guerra, J. P. Santos, Ł. Syrocki, K. Słabkowska, E. Węder, M. Polasik, J. Rządkiwicz, P. Indelicato, Y. Ménesguen, M.-Ch. Lépy, and F. Parente, Structure of $K\{\alpha\}_{1,2}$ - and $K\{\beta\}_{1,3}$ -emission x-ray spectra for Se, Y, and Zr. Phys. Rev. A 102, 052820 – Published 20 November 2020, <http://dx.doi.org/10.1103/PhysRevA.102.052820>
42. Nuno Castro, José Alves, Raul Sarmento, Medida da atenuação de raios cósmicos num edifício, gazeta de Física, Volume 43, Fascículo 2, Pag 9
43. L. Lopes, P. Assis, A. Blanco, P. Fonte, M. Pimenta, Towards sealed Resistive Plate Chambers, Journal of Instrumentation, Volume 15, November 2020, <http://dx.doi.org/10.1088/1748-0221/15/11/C11009>
44. Sandra Soares, Joaquim Kessongo, Yoenls Bahu and Luis Peralta, Comparison of Radon Mass Exhalation Rate Measurements from Building Materials by two Different Methods, Radiation Protection Dosimetry (2020), Vol. 191, No. 2, pp. 255-259, <http://dx.doi.org/https://doi.org/10.1093/rpd/ncaa163>
45. The Pierre Auger Collaboration, The Pierre Auger Observatory and its Upgrade, Science Reviews - from the end of the world (Argentina) Vol. 1, No. 4, September 2020 // pp. 8-33,
46. I. Syndikus, M. Petri, A.O. Macchiavelli, et al., Probing the Z=6 spin-orbit shell gap with (p,2p) quasi-free scattering reactions, Phys. Lett. B 809, 135748 (2020), <http://dx.doi.org/10.1016/j.physletb.2020.135748>
47. T. Aoyama, N. Asmussen, M. Benayoun, J. Bijnens, T. Blum et al., The anomalous magnetic moment of the muon in the Standard Model, Phys. Rept. 887 (2020) 1, <http://dx.doi.org/https://doi.org/10.1016/j.physrep.2020.07.006>
48. G. Eichmann, C. S. Fischer, W. Heupel, N. Santowsky, P. C. Wallbott, Four-quark states from functional methods, Few Body Syst. 61 (2020) 4, 38, <http://dx.doi.org/https://doi.org/10.1007/s00601-020-01571-3>
49. Nuno Castro, Mikael Chala, Ana Peixoto, Maria Ramos, Novel flavour-changing neutral currents in the top quark sector, JHEP 2020 (2020) 38, [http://dx.doi.org/10.1007/JHEP10\(2020\)038](http://dx.doi.org/10.1007/JHEP10(2020)038)
50. B. Aharmim et al. (SNO Collaboration), A search for hep solar neutrinos and the diffuse supernova neutrino background using all three phases of the Sudbury Neutrino Observatory, Phys. Rev. D 102, 062006, <http://dx.doi.org/https://doi.org/10.1103/PhysRevD.102.062006>
51. P. C. Wallbott, G. Eichmann, C. S. Fischer, Disentangling different structures in heavy-light four-quark states, Phys. Rev. D 102 (2020) 5, 051501, <http://dx.doi.org/https://doi.org/10.1103/PhysRevD.102.051501>
52. A. Knyazev, J. Park, P. Golubev, et al., TI concentration and its variation in a CsI(Tl) crystal for the CALIFA detector, Nucl. Instr. and Methods A 975, 164197 (2020), <http://dx.doi.org/10.1016/j.nima.2020.164197>
53. J. M. Sampaio, M. Pinto, P. Gonçalves et al., Dose Measurements and Simulations of the RADFETs Response Onboard the Alphasat CTTB Experiments, IEEE Transactions on

- Nuclear Science, vol. 67, no. 9, pp. 2028-2033, Sept. 2020,
<http://dx.doi.org/10.1109/TNS.2020.3013035>
54. N. Santowsky, G. Eichmann, C. S. Fischer, P. C. Wallbott, R. Williams, Sigma-meson: Four-quark versus two-quark components and decay width in a Bethe-Salpeter approach, *Phys. Rev. D* 102 (2020) 5, 056014, <https://arxiv.org/abs/2008.07630>
 55. Felix Riehn, Ralph Engel, Anatoli Fedynitch, Thomas K. Gaisser, and Todor Stanev, The hadronic interaction model Sibyll 2.3d and extensive air showers, *Phys.Rev.D* 102 (2020) 6, 063002, <http://dx.doi.org/https://doi.org/10.1103/PhysRevD.102.063002>
 56. Mikael Chala, Paweł Kozów, Maria Ramos, Arsenii Titov, Effective field theory for vector-like leptons and its collider signals, *Physics Letters B* 809 (2020) 135752, <http://dx.doi.org/10.1016/j.physletb.2020.135752>
 57. ATLAS Collaboration (2941 authors), Performance of the ATLAS muon triggers in Run 2, *J. Instrum.* 15 (2020) P09015, <http://dx.doi.org/10.1088/1748-0221/15/09/P09015>
 58. Pierre Auger Collaboration (374 authors), Studies on the response of a water-Cherenkov detector of the Pierre Auger Observatory to atmospheric muons using an RPC hodoscope, *J. Instrum.* 15 (2020) P09002, <http://dx.doi.org/10.1088/1748-0221/15/09/P09002>
 59. DUNE Collaboration, Deep Underground Neutrino Experiment (DUNE) Far Detector Technical Design Report. Volume III. DUNE far detector technical coordination, *Journal of Instrumentation*, Volume 15, August 2020, <http://dx.doi.org/10.1088/1748-0221/15/08/T08009>
 60. DUNE Collaboration, Deep Underground Neutrino Experiment (DUNE) Far Detector Technical Design Report. Volume I. Introduction to DUNE., *Journal of Instrumentation*, Volume 15, August 2020, <http://dx.doi.org/10.1088/1748-0221/15/08/T08008>
 61. DUNE Collaboration, Deep Underground Neutrino Experiment (DUNE) Far Detector Technical Design Report. Volume IV. The DUNE far detector single-phase technology, *Journal of Instrumentation*, Volume 15, August 2020, <http://dx.doi.org/10.1088/1748-0221/15/08/T08010>
 62. D.S. Akerib et al., Search for two neutrino double electron capture of ^{124}Xe and ^{126}Xe in the full exposure of the LUX detector, *J. Phys. G: Nucl. Part. Phys.* 47 105105, <https://arxiv.org/abs/1912.02742>
 63. G La Mura, G Chiaro, R Conceição, A De Angelis, M Pimenta, B Tomé, Detection of very-high-energy gamma-ray transients with monitoring facilities, *Monthly Notices of the Royal Astronomical Society*, Volume 497, Issue 3, September 2020, Pages 3142-314, <http://dx.doi.org/https://doi.org/10.1093/mnras/staa2141>
 64. ATLAS Collaboration / CMS Collaboration (5203 authors), Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at 8 TeV, *J. High Energy Phys.* 8 (2020) 051, [http://dx.doi.org/10.1007/JHEP08\(2020\)051](http://dx.doi.org/10.1007/JHEP08(2020)051)
 65. CMS and LHCb Collaborations, Combination of the ATLAS, CMS and LHCb results on the $B_0(s) \rightarrow \mu^+ \mu^-$ decays, <http://cds.cern.ch/record/2727216>
 66. M. Gallinaro et al., Higgs boson potential at colliders: Status and perspectives, *Review in Physics* 5 (2020) 100045, <http://dx.doi.org/https://doi.org/10.1016/j.revip.2020.100045>
 67. Joaquim Kessongo, Yoenls Bahu, Margarida Inacio, Luis Peralta, Sandra Soares, Radon concentration potential in Bibala municipality water: Consequences for public consumption. *Radiat. Phys. Chem.* 173 (2020) 108951, <http://dx.doi.org/10.1016/j.radphyschem.2020.108951>

68. Soraia Elisio, Luis Peralta, Development of a low-cost monitor for radon detection in air, Nucl. Instrum. Methods Phys. Res. Sect. A-Accel. Spectrom. Dect. Assoc. Equip. 969 (2020) 164033, <http://dx.doi.org/10.1016/j.nima.2020.164033>
69. M. Anderson et al. (SNO+ Collaboration), Measurement of neutron-proton capture in the SNO+ water phase, Phys. Rev. C 102, 014002, <http://dx.doi.org/10.1103/PhysRevC.102.014002>
70. CMS Collaboration, Measurement of the CP-violating phase Φ_{13} in the $B_0 \rightarrow J/\psi\Phi(1020) \rightarrow \mu^+\mu^-K^+K^-$ channel in proton-proton collisions at 13 TeV, <https://arxiv.org/abs/2007.02434>
71. L. Apolinário, J. Barata, J. G. Milhano, On the breaking of Casimir scaling in jet quenching, Eur. Phys. J. C 80, 586 (2020), <http://dx.doi.org/10.1140/epjc/s10052-020-8133-1>
72. C. Andrés, L. Apolinário, F. Dominguez, Medium-induced gluon radiation with full resummation of multiple scatterings for realistic parton-medium interactions, JHEP 07 (2020) 114, [http://dx.doi.org/10.1007/JHEP07\(2020\)114](http://dx.doi.org/10.1007/JHEP07(2020)114)
73. Avik Roy, Nikiforos Nikiforou, Nuno Castro, Timothy Andeen, Novel Interpretation Strategy for Searches of Singly Produced Vector-like Quarks at the LHC, Phys. Rev. D 101 (2020) 115027, <http://dx.doi.org/10.1103/PhysRevD.101.115027>
74. P. Socha, M. Pinto, W. Hajdas and P. Gonçalves, Beam test results of a prototype of the Radiation Hard Electron Monitor to be flown in the JUICE mission, Journal of Instrumentation, Volume 15, June 2020 IPRD19, <http://dx.doi.org/10.1088/1748-0221/15/06/C06032>
75. CMS Collaboration, Measurement of B_0 s and B^+ meson yields in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV, CMS-PAS-HIN-19-011, <http://cds.cern.ch/record/2719500?ln=en>
76. M. Askins et al (incl. V. Lozza, N. Barros, J. Maneira, Theia: An advanced optical neutrino detector, Eur. Phys. J. C (2020) 80:416, <http://dx.doi.org/https://doi.org/10.1140/epjc/s10052-020-7977-8>
77. J. Agarwala et al. (COMPASS Coll.), Contribution of exclusive diffractive processes to the measured azimuthal asymmetries in SIDIS, Nucl. Phys. B 956 (2020) 115039, <http://dx.doi.org/https://doi.org/10.1016/j.nuclphysb.2020.115039>
78. CMS Collaboration (2286 authors), Measurement of properties of $B(s)(0)_s \rightarrow \mu^+\mu^-$ decays and search for $B^0 \rightarrow \mu^+\mu^-$ with the CMS experiment, J. High Energy Phys. 4 (2020) 188, [http://dx.doi.org/10.1007/JHEP04\(2020\)188](http://dx.doi.org/10.1007/JHEP04(2020)188)
79. CMS Collaboration (2284 authors), Constraints on the $\chi(c1)$ versus $\chi(c2)$ polarizations in proton-proton collisions at 8 TeV, Phys. Rev. Lett. 124 (2020) 162002, <http://dx.doi.org/10.1103/PhysRevLett.124.162002>
80. M. Gallinaro et al., Timing performance of a Micro-Channel-Plate photomultiplier tube, Nucl. Instr. Meth. 960, 21 April 2020, 163592 (arXiv:1909.12604), <http://dx.doi.org/10.1016/j.nima.2020.163592>
81. ATLAS Collaboration (2929 authors), ATLAS data quality operations and performance for 2015-2018 data-taking, J. Instrum. 15 (2020) P04003, <http://dx.doi.org/10.1088/1748-0221/15/04/P04003>
82. M. Gallinaro et al., Deep diffused Avalanche photodiodes for charged particles timing, Nucl. Instr. Meth. 958 (2020) 162405 (arXiv:1903.07482), <http://dx.doi.org/10.1016/j.nima.2019.162405>

83. Maura Barros, Nuno Filipe Castro, Johannes Erdmann, Gregor Gebner, Kevin Kroninger, Salvatore La Cagnina, Ana Peixoto, Study of interference effects in the search for flavour-changing neutral current interactions involving the top quark and a photon or a Z boson at the LHC, *Eur. Phys. J. Plus* 135 (2020) 339, <http://dx.doi.org/10.1140/epjp/s13360-020-00346-3>
84. Pablo Orviz, Mário David, Jorge Gomes, Doina Cristina Duma, Elisabetta Ronchieri, Davide Salomoni, Software Quality Assurance in INDIGO-DataCloud Project: a Converging Evolution of Software Engineering Practices to Support European Research e-Infrastructures, *J. Grid Comput.* 18 (2020) 81-98, <http://dx.doi.org/10.1007/s10723-020-09509-z>
85. LUX-ZEPLIN Collaboration (178 authors), Projected WIMP sensitivity of the LUX-ZEPLIN dark matter experiment, *Phys. Rev. D* 101 (2020) 052002, <http://dx.doi.org/10.1103/PhysRevD.101.052002>
86. CMS Collaboration (2307 authors), Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at $\sqrt{s}=13$ TeV, *J. High Energy Phys.* 2 (2020) 191, [http://dx.doi.org/10.1007/JHEP02\(2020\)191](http://dx.doi.org/10.1007/JHEP02(2020)191)
87. M. Crispim Romao, N. F. Castro, R. Pedro, T. Vale, Transferability of Deep Learning Models in Searches for New Physics at Colliders, *Phys. Rev. D* 101 (2020) 035042, <http://dx.doi.org/10.1103/PhysRevD.101.035042>
88. ATLAS Collaboration (2892 authors), Measurement of the azimuthal anisotropy of charged-particle production in Xe plus Xe collisions at $\sqrt{s_{NN}}=5.44$ TeV with the ATLAS detector, *Phys. Rev. C* 101 (2020) 024906, <http://dx.doi.org/10.1103/PhysRevC.101.024906>
89. G. Strong, On the impact of selected modern deep-learning techniques to the performance and celerity of classification models in an experimental high-energy physics use case, *2020 Mach. Learn.: Sci. Technol.* 1, 045006, <https://doi.org/10.1088/2632-2153/ab983a>
90. 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, S. Bernardo, OPENCoastS: An open-access service for the automatic generation of coastal forecast systems, *Environmental Modelling & Software*, 2019, 104585, ISSN 1364-8152, <http://dx.doi.org/10.1016/j.envsoft.2019.104585>
91. Álvaro López García; Jesus Marco, Marica Antonacci, Wolfgang zu Castell, Mario David, Marcus Hardt; Lara Lloret Iglesias; Viet Tran; Germán Moltó, Marcin Plociennik, Andy S Alic, Miguel Caballer, Isabel Campos Plasencia, Alessandro Costantini, Stefan Dlugolinsky, Doina Cristina Duma, Giacinto Donvito, Jorge Gomes, Ignacio Heredia, Keiichi Ito, Valentin Kozlov, Giang SCC Nguyen, Pablo Orviz Fernandez, Zdenek Sustr, Pawel Wolniewicz. A cloud-based framework for machine learning workloads and applications, <http://dx.doi.org/10.1109/ACCESS.2020.2964386>
92. J. Casalderrey-Solana, G. Milhano, D. Pablos and K. Rajagopal, Modification of Jet Substructure in Heavy Ion Collisions as a Probe of the Resolution Length of Quark-Gluon Plasma, *JHEP* 2001 (2020) 044, [http://dx.doi.org/10.1007/JHEP01\(2020\)044](http://dx.doi.org/10.1007/JHEP01(2020)044)
93. F. Domínguez, J. G. Milhano, C. A. Salgado, K. Tywoniuk, V. Vila, Mapping collinear in-medium parton splittings, *Eur.Phys.J.* C80 (2020) no.1, 11, <http://dx.doi.org/10.1140/epjc/s10052-019-7563-0>

94. M. Gallinaro et al., Deep diffused APDs for charged particle timing applications: Performance after neutron irradiation, Nucl. Instrum. Methods Phys. Res. Sect. A-Accel. Spectrom. Dect. Assoc. Equip. 949 (2020) UNSP 162930, <http://dx.doi.org/10.1016/j.nima.2019.162930>

National paper

1. Manso, J., Marcelino, J., Caldeira, L.. (2018a) – Estudo da evolução granulométrica em ensaios edométricos de enrocamento, com controlo de sucção. Congresso Nacional de Geotecnia. Ponta Delgada, 27 a 30 de maio de 2018;
2. Manso, J., Marcelino, J., Caldeira, L.. (2018b) – Discrete numerical modelling of the mechanical behaviour of rockfill in a oedometer test with suction control. Congresso Nacional de Geotecnia. Ponta Delgada, 27 a 30 de maio de 2018.
3. Manso, J., Marcelino, J., Caldeira, L.. (2020) – Estudo da fluência e da relaxação de enrocamentos em ensaios edométricos. Congresso Nacional de Geotecnia

Books

1. Lista Vermelha da Flora Vasculare de Portugal Continental – ISBN: 978-972-27-2870-6 - versão impressa
2. Lista Vermelha da Flora Vasculare de Portugal Continental - ISBN: 978-972-27-2876-8 - versão digital – disponível em dois sítios:
 - https://listavermelha-flora.pt/wp-content/uploads/2020/10/Lista_Vermelha_Flora_Vascular_Portugal_Continental_2020_versao_digital.pdf
 - http://spbotanica.pt/docs/Lista_Vermelha_Flora_Vascular_Portugal_Continental_2020_versao_digital.pdf

Journal Paper with indirect contribution (*)

Thesis / Dissertation

PhD Thesis

Finished

1. Pereira, C. (2020). Formulation of an advanced effective stress based constitutive model for unsaturated soils. PhD Thesis, IST, Lisbon,
2. Mendes, D. (2020). Modelling infra-gravity waves in coastal areas, Tese de Doutoramento em Engenharia Civil, IST.
3. Giles Strong (2020). Deep Learning methods applied to Higgs physics at the LHC, PhD Thesis. Instituto Superior Tecnico.
4. Oleksii Toldaiev (2020). Top quark physics and search for physics beyond the Standard Model at the Large Hadron Collider. PhD Thesis, Instituto Superior Tecnico.
5. Ricardo Luz (2020). Development of the instrumentation and readout schemes of MARTA, an upgrade to the Pierre Auger Observatory. PhD Thesis, Instituto Superior Tecnico.
6. João Marcos (2020). Real-time statistical event reconstruction for medical scintillation cameras. PhD Thesis, University of Coimbra.
7. Miguel Moita (2020). ASTROGAM Space Gamma-ray Telescope Main Instrument Development, Doctoral program in Applied Physics and Physical Engineering, University of Coimbra.

Ongoing

1. Manso J. (2017). Predicting the behaviour of rockfill embankments. Instituto Superior Técnico Universidade de Lisboa.
2. Luís Borges-Araújo Institute for Bioengineering and Biosciences, Instituto Superior Técnico: PD/BD/137492/2018
3. Mariana de Oliveira Farinha Fidalgo Valério Universidade Nova de Lisboa / Instituto de Tecnologia e Química Biológica: SFRH/BD/148542/2019
4. PhD thesis de Paulo Santos (LASIGE/FCUL) (<https://www.lasige.pt/member/paulo-santos>)
5. PhD thesis de Guilherme Espada (LASIGE/FCUL) (<https://www.lasige.pt/member/guilherme-espada>)
6. João Pedro Pino Gonçalves "Collider, neutrino and dark relics of Grand Unification with Deep Learning" Universidade de Aveiro.
7. Ana Patrícia Teixeira Pontes "The genomics of microbe domestication – testing the hypothesis of secondary domestication events in *Saccharomyces cerevisiae*. Programa Doutoral em Biologia FCT-UNL: SFRH/BD/136462/2018
8. Biology and ecology of allis shad in Portugal: contributions of fluvial restoration and participated management to its conservation. PhD Thesis, Universidade de Évora (Bolsa FCT referência SFRH/BD/123434/2016)
9. Catadromous migration of the Thinlip grey mullet (*Liza ramada* Risso, 1827) and its importance to fluvial ecosystems. PhD Thesis, Universidade de Évora (Bolsa FCT referência SFRH/BD/121042/2016)
10. Alberto de Albuquerque Cezar Junior "On deep learning analysis of new physics at the LHC. Tese de Doutorado" Universidade Federal da Paraíba parceria com a Universidade de

Aveiro

11. Water quality indexes for Estuarine Waters: assessment of temporal and spatial variability. PhD Thesis, Universidade de Lisboa (EARTHSYSTEMS FCT – Programa Doutoral – PD/BD/135064/2017)
12. Evaluating the design and size adequacy of a Marine Protected Area to promote small-scale artisanal fisheries management. PhD Thesis, Universidade de Lisboa, Faculdade de Ciências (Bolsa FCT referência SFRH/BD/131868/2017)
13. Assessment of anthropogenic impacts on the European Eel in Portugal. PhD Thesis, Universidade de Lisboa, Faculdade de Ciências (EARTHSYSTEMS FCT – Programa Doutoral - PD/143/2012) RuiMonteiro
14. Phytoplankton response to climate change on the North Atlantic and Southern Ocean. PhD Thesis. Universidade de Lisboa. (FCT- SFRH/BD/144586/2019)
15. Movement patterns of the Wels catfish (*Silurus glanis*) in River Tagus: implications for the management of aquatic systems. MSc Thesis in Biologia da Conservação, Universidade de Lisboa, Faculdade de Ciências
16. Bio-optical properties of Portuguese coastal waters with emphasis on the detection of Functional Types of Phytoplankton. PhD Thesis, Universidade de Lisboa (Bolsa CNPq referência 200589/2019-9)

Master Thesis

Finished

1. Automatic conversion of ADA source code to scala, Espada, Guilherme Jorge Nunes Monteiro (<https://repositorio.ul.pt/handle/10451/48217>)
2. Bayesian approach to Ecological Monitoring data: Latent Growth Curve Models. Mestrado em Bioestatística, Universidade de Lisboa, Faculdade de Ciências.
3. Empowering Antibiotic Polymers Design through Coarse Grained Molecular Dynamics [url](#)
4. Tiago Correia "Searching for new physics in the era of Deep Learning and Quantum Supremacy" Universidade de Aveiro. MSc thesis de Máximo Oliveira (LASIGE/FCUL)
5. MSc thesis de Máximo Oliveira (LASIGE/FCUL)
6. Rita Afonso Population genomics of the endangered seabird Bermuda Petrel (*Pterodroma cahow*). Mestrado em Biologia Evolutiva e do Desenvolvimento, Faculdade de Ciências, Universidade de Lisboa
7. Luis Coelho (2020), Study of the CP nature of the top-Higgs coupling in ttH events at the LHC, MSc Thesis in Physics, University of Coimbra, Faculty of Sciences
8. Joana Mingacho (2020), Terrestrial Gamma-ray Flashes analysis for Aircraft Transport Safety, Master in Engineering physics, University of Coimbra, Faculty of Sciences
9. Joana Antunes, Simulations of radiosensitization efficacy of nanoparticles in proton therapy, Mestrado Integrado em Engenharia Biomédica e Biofísica, Universidade de Lisboa, Faculdade de Ciências.
10. Maura Teixeira, Search for Dark Matter in Monotop Events at the Large Hadron Collider, Master in Physics, University of Minho

11. Jacinto Fonseca, Detection of Magnetic Inelastic Dark Matter, Master in Physics, University of Coimbra
12. Matteo Magherini, Vector Boson Scattering with a tau lepton in the final state in proton-proton collisions at the Large Hadron Collider, MSc Univ. of Perugia
13. Ricardo Barru , Study of the ATLAS sensibility to anomalous Spin/CP components in the HWW vertex, MSc in Physics Engineering, IST

ongoing

1. Monitoriza o da popula o do Roaz-corvineiro (*Tursiops truncatus*) do estu rio do Sado. Mestrado em Ecologia e Gest o Ambiental, Universidade de Lisboa, Faculdade de Ci ncias.

Conference Paper

1. "A mosaic thiamine biosynthetic pathway in yeasts reconstructed by multiple horizontal gene transfers" Orador: Carla Gonalves, European congress on fungal genetics, Roma 2020
2. P. Lopes; A. Oliveira; C. Pereira; R. S. Brito; M. A. Cardoso; R. Martins; M. David; J. Gomes; J. Pina et al., "RESCCUE RAF App – Using Technology to Mitigate Climate Change Urban Impacts," 2020 43rd International Convention on Information, Communication and Electronic Technology (MIPRO), Opatija, Croatia, 2020, pp. 1651-1655, doi: 10.23919/MIPRO48935.2020.9245231.
3. CAMPUZANO F., SOBRINHO J., RODRIGUES M., NUNES S., CASTELLANOS P., ALMADA F., FERNANDES C.S., PASCOAL A., NEVES R., OLIVEIRA A., OLIVEIRA A., BROTAS V. (2020). Desenvolvimento dum observat rio costeiro para a  rea Metropolitana de Lisboa. 6as Jornadas de Engenharia Hidrogr fica/1as Jornadas Luso-Espanholas de Hidrografia, 408-411
4. Manso, J., Marcelino, J., Caldeira, L. (2018) – Settlement Analysis of the Montesinho CFRD. Third International DAM WORLD Conference – DAMWORLD 2018, Foz do Iguau, Brasil, 17 e 21 de setembro de 2018.
5. Manso, J., Marcelino, J., Caldeira, L. (2019) "Settlement analysis of the Montesinho concrete-face rockfill dam", XVII European Conference on Soil Mechanics and Geotechnical Engineering – XVII ECSMGE-2019, Reykjav k, Isl ndia, 1 a 7 de setembro de 2019.
6. Manso, J., Marcelino, J., Caldeira, L. (2020) "Yielding of rockfill in triaxial experiments", DAM WORLD Webinar, evento online, emitido a partir de Lisboa, 22 a 24 de setembro de 2020.
7. R. Pedro, Operation and Performance of the ATLAS Tile Calorimeter, J. Phys.: Conf. Ser. 1690 012045
8. B. Pereira on behalf of the ATLAS Collaboration, Radiation hardness of the atlas tile calorimeter optical components, J. Phys.: Conf. Ser. 1690 012053
9. Laura Sargsyan and Filipe Martins, Evaluation of a new visualization and analytics solution for slow control data for large scale experiments, EPJ Web of Conferences 245, 07001

- (2020), <https://doi.org/10.1051/epjconf/202024507001>
10. L. Apolinário, Time evolution of a medium-modified jet, PoS EPS-HEP2019 (2020) 296, <http://dx.doi.org/10.22323/1.364.0296>
 11. Helena Santos, Jet Production in Heavy Ion Collisions with the ATLAS Experiment, PoS 2020, vol. 364, p. 286, <https://pos.sissa.it/364/286/>
 12. P.Lopes, A.Oliveira, C.Pereira, R.S.Brito, M.A.Cardoso, R.Martins, M.David, J.Gomes, J.Pina, RESCCUE RAF App - Using Technology to Mitigate Climate Change Urban Impacts, Mipro2020, ISSN 1847-3946, pp 1959-1963
 13. M. Pinto, P. Gonçalves et al., The RADiation hard Electron Monitor (RADEM) for the JUICE mission, Europlanet Science Congress 2020, online, 21 September-9 Oct 2020, EPSC2020-311, 2020, <http://dx.doi.org/10.5194/epsc2020-311>
 14. G. Strong et al., Muon Energy Measurement from Radiative Losses in a Calorimeter for a Collider Detector, <https://arxiv.org/abs/2008.10958>
 15. Shoaib Sufi et.al, Report on the Workshop on Sustainable Software Sustainability 2019 (WOSSS19), <http://dx.doi.org/10.5281/zenodo.3922155>
 16. M. Gallinaro et al., Precise timing with the PICOSEC-Micromegas detector, Nuovo Cim. C 43 (2020) 1, <https://doi.org/10.1393/ncc/i/2020-20013-8>
 17. M. Gallinaro et al., Beyond the Standard Model in Vector Boson Scattering signatures, <https://arxiv.org/abs/2005.09889>
 18. M. Gallinaro et al., Single photoelectron time resolution studies of the PICOSEC-Micromegas detector, JINST 15(2020) 04, C04053, <https://doi.org/10.1088/1748-0221/15/04/C04053>
 19. Agostinho Gomes, Jose Augusto, Filipe Cuim, Guiomar Evans, Rui Fernandez, Luis Gurriana, Filipe Martins, Upgrade of the ATLAS Tile Calorimeter High Voltage System, ATLETICAL-PROC-2019-008, PoS 370-062, <http://dx.doi.org/10.22323/1.370.0062>
 20. G. Strong, HiggsML Lumin Code: supporting arXiv:2002.01427, <https://doi.org/10.5281/zenodo.3754669>
 21. M. Gallinaro et al., Progress on the PICOSEC-Micromegas Detector Development: Towards a precise timing, radiation hard, large-scale particle detector with segmented readout, Nucl. Instrum. Methods Phys. Res. Sect. A-Accel. Spectrom. Dect. Assoc. Equip. 958 (2020) 162877, <http://dx.doi.org/10.1016/j.nima.2019.162877>
 22. V. Lozza for the SNO+ Collaboration, Backgrounds Analysis for the SNO+ Experiment, Proceedings of TAUP 2019, to be published in Journal of Physics: Conference Series, <http://dx.doi.org/10.1088/1742-6596/1468/1/012135>

Conference Poster

1. RODRIGUES M., MARTINS R., ROGEIRO J., OLIVEIRA A., FORTUNATO A.B., AZEVEDO A., FREIRE P., CRAVO A., JACOB J., ROSA A. (2020). The UBEST observatory: an innovative HPC-based portal for water quality management in coastal regions. EOSC week 2020, 1pp.
2. Borges V. 2020 (20 May). Título: “INSaFLU: open web-based bioinformatics suite for genome-based surveillance of influenza virus and other pathogens, such as SARS-CoV-2”; Encontro: ECDC COVID-19 Laboratory Networks Influenza, European Centre for Disease

Prevention and Control (ECDC)

3. Borges and Isidro, 2020 (10 October). Genetic diversity of the novel coronavirus SARS-CoV-2 (COVID-19) in Portugal; XV CICS-UBI Symposium CICS-UBI.
4. Manso, J., Marcelino, J., Caldeira, L.. (2020) – Estudo da fluência e da relaxação de enrocamentos em ensaios edométricos. Congresso Nacional de Geotecnia. LNEC, 3 a 6 de maio de 2020 (adiado).
5. Palestra/Webinar «A flora ameaçada de Portugal continental», por André Carapeto (Sociedade Portuguesa de Botânica), a 8 de Maio de 2020, integrada no «BioLousada em Casa», organizado pela Câmara Municipal de Lousada.
6. Palestra/Webinar «A flora ameaçada de Portugal continental», por Paulo Pereira (Sociedade Portuguesa de Botânica), a 5 de Outubro de 2020, integrada no Festival de Observação de Aves & Actividades de Natureza/Festival Bird Watching, em Sagres, organizado pela Sociedade Portuguesa para o Estudo das Aves, pela Câmara Municipal de Vila do Bispo e pela Associação Almargem.
7. Comunicação «Apresentação da publicação 'Lista Vermelha da Flora Vasculiar de Portugal Continental' e considerações finais», por Ana Francisco (Sociedade Portuguesa de Botânica), a 13 de Outubro de 2020, integrada na Conferência Pública «Plantas em Risco de Extinção: A Lista Vermelha da Flora Vasculiar de Portugal Continental», realizada na Fundação Calouste Gulbenkian (auditório 2), em Lisboa, organizada pela Sociedade Portuguesa de Botânica.
8. URL da comunicação: https://listavermelha-flora.pt/wp-content/uploads/2020/11/07_PDF_AnaFrancisco.pdf
9. Logótipo da INCD apresentado no slide 21 da comunicação.
10. Palestra/Webinar «Lista Vermelha da Flora Vasculiar de Portugal Continental», por André Carapeto (Sociedade Portuguesa de Botânica), a 4 de Novembro de 2020, para a turma do 10^a ano da Escola Secundária Pedro Nunes, em Lisboa.
11. P. Figueiredo, G. Lage, P. Conde Muíño, R. Pedro, Investigando as interações entre o bosão de Higgs e o W com ATLAS Open Data, Conferência Nacional de Física (Física 2020), Lisboa
12. Carolina Costa, Sensitivity of the ATLAS experiment to anomalous interactions between the Higgs and W bosons, Conferência Nacional de Física (Física 2020), Lisboa
13. Rita Silva, AMBER Experiment at CERN, Jornadas LIP, Braga, Portugal
14. A.S. Alic, M. Antonacci, M. Caballer, I. Campos, A. Costantini, M. David, S. Dlugolinsky, G. Donvito, C. Duma, J. Gomes, M. Hardt, I. Heredia, L. Hluchy, K. Ito, V. Kozlov, L. Lloret, A. López García, J. Marco, L. Matyska, G. Moltó, G. Nguyen, P. Orviz, M. Plociennik, Z. Šustr, V. Tran, P. Wolniewicz, W. zu Castell, DEEP framework for deep learning, ISC High Performance 2020, Frankfurt
15. Susana Santos, Determination of the Higgs CP properties in hadron colliders, Jornadas LIP, Braga, Portugal
16. Rute Pedro, Machine Learning in the Search for New Physics Phenomena at the LHC, Jornadas do LIP, Braga, Universidade do Minho
17. M. Moita, N. Auricchio, E. Caroli, R. M. Curado da Silva, G. De Cesare, S. Del Sordo, J. M. Maia, J. Stephen, E. Virgilli, Monte Carlo study of a 3D CZT Spectroscopic-imager for Scattering Polarimetry, 27th International Symposium On Room-temperature Semiconductor Detectors / IEEE NSS RTSD MIC Conference 2020, Boston, USA

18. Ana Peixoto, Novel flavour-changing neutral currents in the top quark sector, Poster session at the TOP2020 international conference
19. Luís Sintra, Luísa Arruda, Patrícia Gonçalves, Particle Energy Spectra Reconstruction of the MFS Data using Machine Learning Techniques, Jornadas Científicas LIP 2020, Universidade do Minho, Braga
20. M. Moita, R. M. Curado da Silva, J. M. Maia, G. Salgado, G. Canezin, C. Kierans, R. Caputo, J. E. McEnergy, Polarimetric Potential of AMEGO-X Mission Proposal, XXX Encontro Nacional de Astronomia e Astrofísica, Instituto de Astrofísica e Ciências do Espaço, Porto
21. Miguel Moita, Polarimetric Potential of AMEGO-X Mission Proposal, 27th International Symposium On Room-temperature Semiconductor Detectors / IEEE NSS RTSD MIC Conference 2020, Boston, USA
22. Emanuel Gouveia, Probing the CP nature of the Higgs coupling to top quarks with the ATLAS experiment, LIP Jornadas, Braga, Universidade do Minho
23. Diogo de Bastos, Prospects at the High-Luminosity LHC with the CMS experiment, Particle physics for the future of Europe, IST, Lisbon
24. B. Pereira, Radiation hardness of the atlas tile calorimeter optical components, ICPPA 2020, Virtual World - Moscow
25. Coelho, Luis Felipe and Goncalo, R. and Gouveia, E. D. and Moreira De Carvalho, A. L. and Onofre, A., Search for CP-odd ttH production in the H \rightarrow bb decay channel, 6th IDPASC/LIP PhD Students Workshop, Portugal
26. Luis Coelho, Search for CP-odd ttH production in the H \rightarrow bb decay channel with ATLAS, 6th IDPASC PhD students workshop,
27. Ana Peixoto, Search for Flavour Changing Neutral Currents interactions in the tZq vertex with the ATLAS Experiment at 13 TeV, LIP Jornadas 2020, Braga, Universidade do Minho
28. Tiago Vale, Search for vector-like quarks with the ATLAS Experiment, LIP Jornadas, Braga, Universidade do Minho
29. C. Costa, R. Barrué, P. Conde Muñío, Sensitivity of the ATLAS experiment to anomalous interactions between the Higgs and W bosons, Conferencia Nacional de Física (Física 2020)
30. Ricardo Barrué, Sensitivity to anomalous HWW couplings at ATLAS, LIP Jornadas, Braga, Universidade do Minho
31. N.Leonardo, S. Fonseca, E. Melo, A.Jales, T.Gaehetgens, Study of the efficiency of muon identification algorithm with Tag and Probe method using CMS Open Data, Fisica 2000
32. Ana Carvalho, Ricardo Gonçalo, Patricia Conde, The ATLAS Hardware Track Trigger performance studies for the HL-LHC, 8th Conference of Large Hadron Collider Physics
33. Ana Luísa Moreira de Carvalho, The ATLAS Hardware Track Trigger performance studies for the HL-LHC, LHCP 2020
34. M. Pinto, P. Gonçalves et al., The RADiation hard Electron Monitor (RADEM) for the JUICE mission, Outer planet moon - magnetosphere interaction workshop
35. S. Andringa, A. Blanco, P. Dobrilla, R. Gonçalo, D. Gonçalves, G. Gouveia, L. Lopes, J. Pereira, Um dispositivo móvel baseado em RPCs para tomografia de muões, FÍSICA 2020 - 22ª Conferência Nacional de Física,
36. A. Blanco, P. Fonte, L. Lopes, E. Neves, J. Saraiva e M. Veiga, Um novo detetor de tempo de voo para a experiência HADES, FÍSICA 2020 - 22ª Conferência Nacional de Física

37. Sara Mesquita, Lília Perfeito and Joana Gonçalves de Sá, Using pandemic periods to improve now-casting models based on search engine data, Complex Networks 2020, Madrid

Datasets

1. <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE143954>
-

Revision #43

Created 8 March 2021 10:16:38 by João Pina

Updated 23 January 2026 12:02:58 by João Pina