

2025

International articles with referee

1. Storti, B. C., Sinval, J., Munro, Y. L., Diaz, F. J. M., & Sticca, M. G. (2025). Advisor-advisee relationship and the organizational culture of doctoral programs on doctoral students' mental health and academic performance: A scoping review protocol. *MethodsX*. <https://doi.org/10.1016/j.mex.2025.103433>
2. Gadelho, J.F.M., Barajas, G., Lara, J. and Guedes Soares, C., (2025), "Numerical analysis of Multiple-chamber OWCs efficiency using a fast PTO modelling approach in OpenFOAM". *Ocean Engineering* 332, 121354. <https://doi.org/10.1016/j.oceaneng.2025.121354>
3. Li, Hansheng, Wang, S., Guedes Soares, C., 2025, Scale-Induced Uncertainty in 2D Cylinder Flow Near the Free Surface at High Reynolds Numbers, *Ocean Engineering*, Submitted.
4. Rodrigues, M.I.P., Wang, S., Islam, H., Abdelwahab1, H.S., Jiao, Jialong, Guedes Soares, C., 2025, Uncertainty analysis of a CFD solver for predicting ship motions in head waves, *Ocean Engineering*, Submitted.
5. Ning, D., Wang, S., Guedes Soares, C., 2025. Coupled dynamics of a point absorber array with a shared mooring system. *Ocean Eng.* (submitted)
6. Alexandre Blanckaert and Vitor C. Sousa, Interactions between mechanisms of reproductive, *The American Society of Naturalists* DOI: www.journals.uchicago.edu/doi/10.1086/740888
7. Marôco, J., Harju-Lukkainen, H., & Rautopuro, J. (2026). Worldwide predictors of science literacy in lower-secondary students: a TIMSS 2019 analysis. *International Journal of Science Education*, 48(4), 580–598. <https://doi.org/10.1080/09500693.2024.2394239>
8. Lehtola, P., Marôco, J., Pulkkinen, J. et al. The validity and comparability of motivational constructs in TIMSS 2019. *Large-scale Assess Educ* 14, 9 (2026). <https://doi.org/10.1186/s40536-026-00283-0>
9. Marôco, J., & von Davier, M. (2026). Imputing PIRLS's home socioeconomic status from students' and schools' questionnaire data: a simulation with MICE. *International Journal of Testing*, 26(1), 38–53. <https://doi.org/10.1080/15305058.2025.2595574>
10. Løken TK, Hanssen NB, Olsen K and Marôco J (2026) Norwegian validation of the University Student Engagement Inventory. *Front. Psychol.* 17:1734409. doi: [10.3389/fpsyg.2026.1734409](https://doi.org/10.3389/fpsyg.2026.1734409)
11. Dias-Almeida, B., de Oliveira Gonçalves, P., Marôco, J. et al. Assessing autism knowledge in portugal: validation of the autism spectrum knowledge scale (ASKS-PT). *Curr Psychol* 45, 617 (2026). <https://doi.org/10.1007/s12144-026-09232-0>

12. Joaquim F. Silva and Jose C. Cunha. A scalable model for frequency distribution of low occurrence multi-words towards handling very large spectrum of text corpora sizes. In Machine Learning and Knowledge Discovery in Databases. Research Track: European Conference, ECML PKDD 2025, Porto, Portugal, September 15, 2025, Proceedings, Part VII, pages 402–418, Berlin, Heidelberg, 2025. Springer-Verlag. (CORE A conference)
13. Ning, D., Wang, S., Chen, H. and Soares, C.G., 2026. Coupled dynamics of a point absorber array with a shared mooring system. *Ocean Engineering*, 343, p.123447.
14. Ning, D., Wang, S. and Soares, C.G., 2026. Analysis of three-dimensional and hydroelastic effects on high-velocity water entry of a rectangular plate. *Ocean Engineering*, 352, p.124445
15. Rodrigues, M.I.P., Wang, S., Islam, H., Abdelwahab, H.S., Jiao, J. and Soares, C.G., 2026. Uncertainty analysis of a CFD solver for predicting ship motions in head waves. *Ocean Engineering*, 343, p.123129.
16. Pavloudi, Christina, et al. "First release of the European marine omics biodiversity observation network (EMO BON) shotgun metagenomics data from water and sediment samples." *ARPHA Preprints* 6 (2025): e146366. (<https://doi.org/10.3897/arphapreprints.e146366>)
17. Abreu, R., Caetano, F., Carreira, F., Borrego, A. C., & Nunes, S. (2026). Tax strategy and political ideology in Portuguese municipalities: An application of the boosting technique. In Á. Rocha, F. J. García-Peñalvo, R. Gonçalves, A. García-Holgado, & F. Moreira (Eds.), *Proceedings of 19th Iberian Conference on Information Systems and Technologies (CISTI 2024)* (pp. 365–376). Springer. https://doi.org/10.1007/978-3-032-12882-9_32
18. Abreu, R., Carreira, F., Borrego, A. C., Nunes, S., & Caetano, F. (2025). Fiscal clustering: Tax burdens and strategies across Portuguese municipalities [Conference presentation]. 11th International Conference on CSR, Sustainability, Ethics, and Governance, ESTeSL, Portugal.
19. Abreu, R., Carreira, F., Borrego, A. C., Nunes, S., Caetano, F., Pérez-López, J.-Á., & Segura, L. (2025). The role of the taxation strategies of the Portuguese municipalities in shaping electoral outcomes. In C. R. Tănăsescu, C. Oprean-Stan, S. O. Idowu, & B. Díaz Díaz (Eds.), *Advancements in sustainable development* (pp. 217–242). Springer. https://doi.org/10.1007/978-3-031-86337-0_13
20. Abreu, R., Nunes, S., Borrego, A. C., Carreira, F., Caetano, F., & Pérez-López, J.-Á. (n.d.). High costs, high impacts: Faculty evaluation and fairness in the open access era [Conference presentation]. 23rd International Conference on Corporate Social Responsibility and Sustainability (SRRNet), Lisbon, Portugal.
21. Caetano, F., Abreu, R., & López-Pérez, M.-V. (2025, July 14–15). Artificial intelligence in financial distress management: Advancing beyond Portuguese municipalities [Conference presentation]. 6th International Conference on Accounting and Finance Innovation (ICAFI 2025), Aveiro, Portugal
22. Caetano, F., Abreu, R., Brioso, P., & Lopez-Pérez, M. V. (2026). Accelerating literature reviews with multi-database information systems for financial distress research. *Systems*, 14(2), Article 181. <https://doi.org/10.3390/systems14020181>
23. 1CGH Catalog ; Published in: *Mon.Not.Roy.Astron.Soc.* 539 (2025) 2, 1458-1470 ; MNRAS_link: <https://academic.oup.com/mnras/article/539/2/1458/8120033?login=false> ; INSPIRE_link: <https://inspirehep.net/literature/2853545> ; DOI: 10.1093/mnras/staf329

24. Radio Loud Quazar, $z=6.13$; *Astrophys.J.Lett.* 990 (2025) 2, L56 ; [ApJL_link: https://iopscience.iop.org/article/10.3847/2041-8213/aded0a](https://iopscience.iop.org/article/10.3847/2041-8213/aded0a) ; [INSPIRE_link: https://inspirehep.net/literature/2967003](https://inspirehep.net/literature/2967003) ; DOI: 10.3847/2041-8213/aded0a
25. Marques, M, Pascoal, F, Villela, H, Santos, E, Baylina, N, Peixoto, RS, Keller-Costa, T, & Costa, R. (2025). "Selective shaping of prokaryotic communities and core symbiont maintenance suggest large-scale aquarium facilities as reservoirs of microbiome diversity in octocorals". *Frontiers in Microbiology*, 16:1651109.
<https://doi.org/10.3389/fmicb.2025.1651109>
26. Madeira, Carolina; Pedro M. Costa; Madeira, Diana; Vinagre, Catarina. Outputs from research project ExtremeOceans - Unravelling evolutionary physiology landscapes of coastal marine fauna under extreme temperatures using a multi-layer Systems Biology approach (NOVA.ID.FCT, University of Aveiro and CCMAR), Funded by the Portuguese Foundation for Science and Technology. 2025. <https://doi.org/10.5281/zenodo.15761756>
27. Madeira, Carolina; Diniz, Mário; Pedro M. Costa. Partner 3: Portugal (NOVA University Lisbon) - Outputs from EASMO: Eastern Tropical Pacific Fish on the Move: Biodiversity Reorganisation and Societal Consequences. 2025.
<https://doi.org/10.5281/zenodo.15642813>
28. Biguino, B., Haigh, I., Dias, J.M., Brito, A.C. (2025). Features and trends of marine heat waves and marine cold spells along the Western Iberian Coast from four decades of satellite data. *Scientific Reports*, 16, 1860.
29. Brandão, P., Costa, L.M, Costa, J.L, Cabral, H.N, Marques, T.M, França, S. 2025. Trends in fish diversity in Portuguese estuaries in the past decades and predictions in face of global changes. *Estuarine, Coastal and Shelf Science*, 109048.
<https://doi.org/10.1016/j.ecss.2024.109048>
30. Darras, K.F.A., Rountree, R.A., Van Wilgenburg, S.L., Cord, A.F., Pitz, F., Chen, Y., Dong, L., Rocquencourt, A., Desjonquères, C., Diaz, P.M., Lin, T.-H., Turco, T., Emmerson, L., Bradfer-Lawrence, T., Gasc, A., Marley, S., Salton, M., Schillé, L., Wensveen, P.J., Wu, S.-H., Acero-Murcia, A.C., et al. (2025), *Worldwide Soundscapes: A Synthesis of Passive Acoustic Monitoring Across Realms*. *Global Ecol Biogeogr*, 34: e70021.
<https://doi.org/10.1111/geb.70021>
31. Santos G.S., Ribeiro F., Pereira E., Silva A.F., Almeida P.R., Ribeiro D., Quintella B.R.2025. Behaviour of the Apex Predator European Catfish (*Silurus glanis*) on a Recently Invaded Reservoir. *Ecology of Freshwater Fish*, 34: e12817 <https://doi.org/10.1111/eff.12817>
32. Sent, G., Spyrakos, E., Jackson, T., Atwood, E., Brotas, V., Groom, S., Brito, A.C. (2025). Can optical water types be used as ecological indicators? Insights from a temperate estuary. *International Journal of Applied Earth Observation and Geoinformation*, 144, 104880.
33. Silva A., Castro J., Pereira E., Marques J., Silva T., Lino P., Candeias-Mendes A., Pousão-Ferreira P., Pinto B., Costa J., de Almeida P., Quintella B.R. 2025. An Acclimatization Period in a Cage Promotes Site Fidelity of Hatchery-Reared Dusky Groupers to the Release Areas. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 35: e70125
<https://doi.org/10.1002/aqc.70125>
34. Verhelst P., Righton D., Aarestrup K., Almeida P.R., Bašić T., Bolland J.D., Carter L., Coeck J., Costa J.L., Dainys J., Davidsen J.G., Domingos I., Dorow M., Feunteun E., Frankowski J., Griffioen A.B., Monteiro R.M., Moore A., Oldoni D., Piper A.T., Quintella B.R., Reeds J.,

- Trancart T., Verschelde P., Winter H.V., Reubens J. 2025. The Seaward Migration of European Eel at a Continental Scale: A Europe-Wide Biotelemetry Meta-Analysis. *Fish and Fisheries*, 26: 65-668. <https://doi.org/10.1111/faf.12904>
35. Vieira, S., Adão, H., & Vicente, C. S. L. (2025). Assessing spatial and temporal patterns of benthic bacterial communities in response to different sediment conditions. *Marine Environmental Research*, 204, 106963. <https://doi.org/10.1016/j.marenvres.2025.106963>

Oral Presentations

1. Marques, M, Pascoal, F, Villela, H, Santos, E, Baylina, N, Peixoto, RS, Keller-Costa, T, & Costa, R. (2025). "Selective shaping of prokaryotic communities and core symbiont maintenance suggest large-scale aquarium facilities as reservoirs of microbiome diversity in octocorals". *Frontiers in Microbiology*, 16:1651109. <https://doi.org/10.3389/fmicb.2025.1651109>
2. Marques, M, Keller-Costa, T, Peixoto, R, & Costa, R. "Climate change impacts on octocorals: emergent pathogens, symbiont preservation and probiotic solutions". Institute Seminar at Institute for Bioengineering and Biosciences, Instituto Superior Técnico. Lisbon, Portugal. July 28th
3. Climate change in the Eastern Tropical Pacific: Molecular and phenotypic responses of the commercial fish spotted rose snapper to multistressors – Scientific discoveries and progress Stakeholder meeting with the EASMO Scientific Panel Advisory Board Leibniz Centre for Tropical Marine Research
4. Climate change in the Eastern Tropical Pacific: Adaptive responses of the commercial fish spotted rose snapper – Implications for Conservation. Stakeholder meeting with the ETP Node of the Global Coral Reef Monitoring Network Leibniz Centre for Tropical Marine Research
5. Climate change in the Eastern Tropical Pacific: Impacts on the commercial fish spotted rose snapper - Implications for Conservation, Fisheries and Aquaculture. Stakeholder meeting with 9 NGOs from the Eastern Tropical Pacific: Migramar, Fundación Malpelo Colombia, Marviva, Ecomares, Wildlife Conservation Society, Conservation International, Charles Darwin Foundation Galapagos, Asociación Costa Rica por Siempre and Fundación Pacífico Leibniz Centre for Tropical Marine Research
6. Dark matter imprints on the neutron star properties and merger dynamics, V. Sagun, at the University of Nottingham, Nottingham, United Kingdom, 2 December, 2025 (Invited seminar).
7. Neutron stars as dark matter probes, V. Sagun, at the CENTRA, Instituto Superior Técnico, University of Lisbon, Portugal, 15 October, 2025 (Invited seminar).
8. Fastest spinning millisecond pulsars: indicators for quark matter in neutron stars?, C. Gärtlein, V. Sagun, D. Blaschke, O. Ivanytskyi, I. Lopes at the Modern Physics of Compact Stars and Relativistic Gravity conference, Yerevan University, Yerevan, Armenia, 23–26 September 2025 (Plenary talk, remote).
9. The impact of dark matter on neutron stars' properties and binary neutron star mergers, SPINS-UK 2025, the Annual UK Neutron Star Meeting, Royal Holloway, University of

London, UK, 15-17 September 2025 (Plenary talk).

10. Multi-Messenger Probes of Dark Matter With Neutron Stars and Binary Neutron Star Mergers, at the INT Workshop INT-25-94w "Nuclear Physics in Mergers - Going Beyond the Equation of State", Institute of Nuclear Theory, University of Washington, Seattle, USA, 8-12 September 2025 (Invited talk).
11. The Impact of Dark Matter on the Dynamics of Binary Neutron Star Mergers, International Conference "Dark Matter and Stars: Multi-Messenger Probes of Dark Matter and Modified Gravity", Queen's University, Kingston, Ontario, Canada, 14-16 July 2025 (Plenary talk).
12. Are there indications for quark deconfinement in fast-spinning massive neutron stars?, International Conference on QCD in Extreme Conditions (XQCD), Wroclaw, Poland, 2-4 July 2025 (Plenary talk).
13. Numerical Relativity Simulations of Dark Matter Admixed Binary Neutron Stars, at the Black Holes, Neutron Stars, and Gravitational Waves @ Black Sea Conference, Varna, Bulgaria, 16-20 June 2025 (Invited talk).
14. Gravitational Wave Signatures of Dark Matter in Neutron Star Mergers, Department of Applied Mathematics and Theoretical Physics, University of Cambridge, United Kingdom, 30 May 2025 (Invited seminar).
15. Fastest spinning millisecond pulsars as indicators of deconfined quark matter in neutron stars, at the 2nd Workshop on modern equations of state and spectroscopy in neutron-star matter, Universidad de Alcalá, Alcalá de Henares, Spain, 26-28 May 2025.
16. Numerical relativity simulations of dark matter admixed binary neutron stars, V. Sagun, E. Giangrandi, H. R. Rüter, N. Kunert, M. Emma, A. Abac, A. Adhikari, T. Dietrich, W. Tichy, C. Providência, at the Theory Astrophysics and Gravity (STAG) Research Centre, University of Southampton, Southampton, United Kingdom, 1 May 2025 (Invited seminar).
17. Fastest spinning millisecond pulsars: indicators for quark matter in neutron stars?, V. Sagun, C. Gärtlein, O. Ivanytskyi, D. Blaschke, I. Lopes, at the Department of Physics, University of Southampton, Southampton, United Kingdom, 4 April 2025 (Invited seminar).
18. Constraining the deconfinement phase transition properties at zero temperature with the fastest spinning millisecond pulsars, V. Sagun, C. Gärtlein, O. Ivanytskyi, D. Blaschke, I. Lopes, at the Center for Cosmology and AstroParticle Physics, Ohio State University, Columbus, USA, 25 March 2025 (Invited seminar).
19. Gravitational wave signatures of dark matter in binary neutron star mergers, V. Sagun, A. Abac, A. Adhikari, T. Dietrich, M. Emma, E. Giangrandi, O. Ivanytskyi, H. Koehn, N. Kunert, C. Providência, H. R. Rüter, R. Somasundaram, W. Tichy, at the American Physical Society Global Physics Summit, Anaheim, USA, 16-21 March 2025 (Invited talk).
20. Vieira S. & Adão H.(2025). Food web attributes to assess estuarine benthic ecosystem" European Marine Biology Symposium (EMBS) EuroMarine, 06-09 July, Bodø, Norway, - Oral presentation. <https://doi.org/10.5281/zenodo.16753702>
21. A forecasting framework for galactic cosmic ray flux in space weather applications David Pelosi, Fernando Barão, Bruna Bertucci, Francesco Faldi, Emanuele Fiandrini, Alejandro Reina Conde, Miguel Orcinha, Nicola Tomassetti Advances in Space Research 76 (2025) 5700–5713 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-11-01 10.1016/j.asr.2025.08.022
22. Operation and performance of the ATLAS Tile calorimeter in LHC Run 2 ATLAS Collaboration (N. Castro, J. Gentil, A. Gomes, M. Kholodenko, A. Maio, H. Santos, L.

- Gurriana, L. Seabra, R. Pedro, B. Pinheiro, et al.) Eur. Phys. J. C 84 (2024) 1313 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-01-08 10.1140/epjc/s10052-024-13151-4
23. Expected tracking performance of the ATLAS Inner Tracker at the High-Luminosity LHC ATLAS Collaboration (L. Coelho, R. Gonçalo) J. Instrum. 20 (2025) P02018 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-02-01 10.1088/1748-0221/20/02/P02018
 24. Measurement of the associated production of a top-antitop-quark pair and a Higgs boson decaying into a bb pair in pp collisions at 13 TeV using the ATLAS detector at the LHC ATLAS Collaboration (R. Gonçalo, A.L.Carvalho, et al.) Eur. Phys. J. C 85 (2025) 210 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-02-24 10.1140/epjc/s10052-025-13740-x
 25. Is Tokenization Needed for Masked Particle Modelling? Matthew Leigh, Samuel Klein, Francois Charton, Tobias Golling, Lukas Heinrich, Michael Kagan, Ines Ochoa, Margarita Osadchy Mach. Learn.-Sci. Technol. 6 (2025) 025075 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-06-27 10.1088/2632-2153/addb98
 26. t-channel dark matter models - a whitepaper Chiara Arina et al. (R. Pedro) Eur. Phys. J. C 85 (2025) 975 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-09-12 10.1140/epjc/s10052-025-14635-7
 27. The critical importance of software for HEP Christina Agapopoulou , I. Ochoa et al. (25 authors) Eur. Phys. J. C 85 (2025) 1142 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-10-13 10.1140/epjc/s10052-025-14571-6
 28. Measurement of the Depth of Maximum of Air-Shower Profiles with energies between 3 and 100 EeV using the Surface Detector of the Pierre Auger Observatory and Deep Learning Pierre Auger Collaboration (366 authors) Phys. Rev. D 111 (2025) 022003 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-01-13 10.1103/PhysRevD.111.022003
 29. The Pierre Auger Observatory Open Data The Pierre Auger Collaboration Eur. Phys. J. C 85 (2025) 70 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-01-24 10.1140/epjc/s10052-024-13560-5
 30. Search for a diffuse flux of photons with energies above tens of PeV at the Pierre Auger Observatory The Pierre Auger Collaboration J. Cosmol. Astropart. Phys. 5 (2025) Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-05-23 10.1088/1475-7516/2025/05/061
 31. Outdoor MARTA RPCs performace update L. Lopes, P. Assis, G. Neves, R. Conceicao, M. Ferreira, L. Mendes, J. C. Nogueira Nucl. Instrum. Methods Phys. Res. Sect. A-Accel. Spectrom. Dect. Assoc. Equip. 1076 (2025) 170476 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-07-01 10.1016/j.nima.2025.170476
 32. Probabilistic mapping between multiparticle production variables and the depth of maximum in proton-induced extensive air showers L. Cazon, R. Conceição, M. A. Martins, F. Riehn Phys.Rev.D 112 (2025) 4, 043016 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-08-14 10.1103/1664-pht6
 33. Sensitivity of hybrid particle detectors to the energy spectra of air shower components P. Assis, R. Conceição, P. J. Costa, M. Freitas, B. Tomé JCAP 10 (2025) 097 Jrn-Dir Articles in

- international journals (with direct contribution from team) published 2025-10-27
10.1088/1475-7516/2025/10/097
34. Global tuning of hadronic interaction models with accelerator-based and astroparticle data J. Albrecht et al. (55 authors) Nat. Rev. Phys. (2025) Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-12-16 10.1038/s42254-025-00897-3
 35. Measuring the muon content of inclined air showers using AERA and the water-Cherenkov detectors of the Pierre Auger Observatory, The Pierre Auger Collaboration Phys. Rev. D 112 (2025) 123042 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-12-23 10.1103/2q9f-pbrp
 36. Bottom quark energy loss and hadronization with B+ and Bs0 nuclear modification factors using pp and PbPb collisions at root sNN=5.02 TeV CMS Collaboration (2379 authors) J. High Energy Phys. 2 (2025) 195 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-02-27 10.1007/JHEP02(2025)195
 37. PICOSEC Micromegas precise-timing detectors: development towards large-area application and integration Y. Meng et al. (52 authors) J. Instrum. 20 (2025) C03015 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-03-01 10.1088/1748-0221/20/03/C03015
 38. Single channel PICOSEC Micromegas detector with improved time resolution A. Utrobicic et al. (50 authors) Nucl. Instrum. Methods Phys. Res. Sect. A-Accel. Spectrom. Dect. Assoc. Equip. 1072 (2025) 170127 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-03-01 10.1016/j.nima.2024.170127
 39. Properties of carbon-infused silicon LGAD devices after non-uniform irradiation with 24 GeV/c protons C. da Cruz e Silva, J. Hollar, M. Gallinaro, G. da Molin, G. Marozzo, et al Nucl.Instrum.Meth.A 1076 (2025) 170417 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-03-17
<https://doi.org/10.48550/arXiv.2412.13780>
 40. Dark sector searches with the CMS experiment CMS collaboration Phys.Rept. 1115 (2025) 448 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-04-17 <https://doi.org/10.1016/j.physrep.2024.09.013>
 41. Angular analysis of the B0 -> K*(892)0m+m- decay in proton-proton collisions at root s=13 TeV CMS Collaboration (2389 authors) Phys. Lett. B 864 (2025) 139406 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-05-01 10.1016/j.physletb.2025.139406
 42. The CMS barrel timing layer: test beam confirmation of module timing performance F. Addesa et al. Nucl.Instrum.Meth.A 1081 (2026) 170823 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-07-19
<https://doi.org/10.48550/arXiv.2504.11209>
 43. Study of same-sign W boson scattering and anomalous couplings in events with one tau lepton from pp collisions at 13 TeV CMS collaboration JHEP 2510 (2025) 219 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-10-27 [https://link.springer.com/article/10.1007/JHEP10\(2025\)219](https://link.springer.com/article/10.1007/JHEP10(2025)219)
 44. Neutrinoless double beta decay sensitivity of the XLZD rare event observatory XLZD Collaboration (439 authors) J. Phys. G-Nucl. Part. Phys. 52 (2025) 045102 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-04-30

10.1088/1361-6471/adb900

45. Dark Matter Search Results from 4.2 Tonne-Years of Exposure of the LUX-ZEPLIN (LZ) Experiment LZ Collaboration (218 authors) Phys. Rev. Lett. 135 (2025) 011802 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-07-01 10.1103/4dyc-z8zf
46. The XLZD Design Book: towards the next-generation liquid xenon observatory for dark matter and neutrino physics J. Aalbers et al. (443 authors) Eur. Phys. J. C 85 (2025) 1192 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-10-23 10.1140/epjc/s10052-025-14810-w
47. Development and Assessment of a New Multichannel Electrocutaneous Device for Non-Invasive Somatosensory Stimulation for Magnetic Resonance Applications Carolina Travassos, Alexandre Sayal, Paulo Fonte, Bruno Direito, Luis Lopes, Nuno Carolino, Sonia Afonso, Tania Lopes, Teresa Sousa, Miguel Castelo-Branco IEEE Trans. Neural Syst. Rehabil. Eng. 33 (2025) 1918-1928 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-07-01 10.1109/TNSRE.2025.3566144
48. Study of the radiation hardness of the ATLAS Tile Calorimeter optical instrumentation with Run 2 data J. Abdallah, B. Pereira, R. Pedro, P. Conde et al. (56 authors) JINST 20 (2025) 06, P06006 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-06-06 10.1088/1748-0221/20/06/P06006
49. Unconventional Three-Dimensional Active Seismic Tomography Applied in the Lousal Mine (Iberian Pyrite Belt, Portugal) I. Hamak, P. Teixeira, J. Borges, I. Koulakov, R. Oliveira, B. Caldeira, M. Bezzeghoud, J. X. Matos, S. Andringa Surv Geophys (2025) Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-12-25 <https://doi.org/10.1007/s10712-025-09920-9>
50. Initial measurement of reactor antineutrino oscillation at SNO+ A. Allega et al (SNO+ Collaboration) Eur. Phys. J. C 85, 17 (2025) Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-01-10 10.1140/epjc/s10052-024-13687-5
51. Measurement of reactor antineutrino oscillation at SNO+ M. Abreu et al. (SNO+ Collaboration) Phys. Rev. Lett. 135 (2025) 121801 Jrn-Dir Articles in international journals (with direct contribution from team) published 2025-09-15 10.1103/gypt-lc9v
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Thesis / Dissertation

PhD Thesis

Finished

1. Edoardo Giangrandi, The effects of dark matter on neutron stars and on their merger dynamics, PhD thesis at the University of Coimbra, October 2025.
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Ongoing

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Patents

Datasets

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