

2018

Journal Paper with direct contribution

1. Llarena, Anna;Katrin, et al. "INNUENDO: a cross sectoral platform for the integration of genomics in the surveillance of food borne pathogens." EFSA Supporting Publications 15.11 (2018): 1498E.
<https://efsa.onlinelibrary.wiley.com/doi/abs/10.2903/sp.efsa.2018.EN-1498>
2. Pina, F., Correia, J., Filipe, R., Araujo, F. and Cardroom, J., 2018, November. Nonintrusive Monitoring of Microservice-Based Systems. In 2018 IEEE 17th International Symposium on Network Computing and Applications (NCA) (pp. 1-8). IEEE.
3. Correia J, Ribeiro F, Filipe R, Araujo F, Cardoso J. Response Time Characterization of Microservice-Based Systems. In 2018 IEEE 17th International Symposium on Network Computing and Applications (NCA) 2018 Nov 1 (pp. 1-5). IEEE.
4. F.J.A.L. Cruz and J.P.B. Mota, "Equilibrium and Transport Distributions of DNA in Hydrophilic Nanopores", 41st Iberian Adsorption Meeting, Gijón, Spain, September 2018.
5. F.J.A.L. Cruz and J.P.B. Mota, "Thermodynamics and Kinetics of DNA in Hydrophilic Nanopores", 11th International conference on Advanced Nanomaterials, Aveiro, Portugal, July 2018.
6. F.J.A.L. Cruz and J.P.B. Mota, "Equilibrium and Transport Distributions of DNA in Hydrophilic Nanotubes", XIII Physical-Chemistry National Meeting, Faro, Portugal, June 2018.
7. Rodrigues, S., Sinval, J., Queirós, C., Marôco, J., & Kaiseler, M. (2019). Transitioning from recruit to officer: An investigation of how stress appraisal and coping influence work engagement. *International Journal of Selection and Assessment*, 27(2), 152–168.
<https://doi.org/10.1111/ijsa.12238>
8. Sinval, J., Sirgy, M. J., Lee, D.-J., & Marôco, J. (2019). Quality of Work Life Scale: Validity evidence from Brazil, and Portugal. *Applied Research in Quality of Life*.
<https://doi.org/10.1007/s11482-019-09730-3>
9. haplotype-resolved draft genome of the European sardine (*Sardina pilchardus*) B Louro, G De Moro, CM Garcia, C Cox, A Veríssimo, SJ Sabatino, ... *BioRxiv*, 441774
10. Nuclear protein phylogenies support the monophyly of the three bryophyte groups (Bryophyta Schimp.) F de Sousa, PG Foster, PCJ Donoghue, H Schneider, CJ Cox *New Phytologist* 222 (1), 565-575
11. Observation of Fine Time Structures in the Cosmic Proton and Helium Fluxes with the Alpha Magnetic Spectrometer on the International Space Station AMS Collaboration *Phys. Rev. Lett.* 121, 051101
12. Testing Diffusion of Cosmic Rays in the Heliosphere with Proton and Helium Data from AMS N. Tomassetti, F. Barão, B. Bertucci, E. Fiandrini, J. L. Figueiredo, J. B. Lousada, and M. Orcinha *Phys. Rev. Lett.* 121, 251104

13. Search for the standard model Higgs boson produced in association with top quarks and decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration Phys. Rev. D 97 (2018) 072016
14. Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration J. High Energy Phys. 7 (2018) 176
15. The High Voltage distribution system of the ATLAS Tile Calorimeter and its performance during data taking D. Calvet, S. Calvet, R. Chadelas, D. Cinca, Ph. Grenier, P. Gris, P. Lafarguette, D. Lambert, M. Marjanovi, L. F. Oleiro Seabra, F. M. Pedro Martins, J. B. Pena Madeira Gouveia De Campos, S. M. Romano Saez, P. Rosnet, C. Santoni, L. Valéry, F. Vazeille JINST 13 (2018) P08006
16. Search for pair production of heavy vector-like quarks decaying into high-(PT) W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration J. High Energy Phys. 8 (2018) 048
17. CP tests of Higgs couplings in $t\bar{t}h$ semileptonic events at the LHC D. Azevedo, A. Onofre, F. Filthaut, and R. Gonalo Phys.Rev. D98 (2018) 033004
18. Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector ATLAS Collaboration Phys. Lett. B 784 (2018) 173, arXiv:1806.00425 [hep-ex]
19. Observation of $H \rightarrow b\bar{b}$ decays and VH production with the ATLAS detector ATLAS Collaboration Phys. Lett. B 786 (2018) 59-86
20. Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector ATLAS collaboration JHEP 1811 (2018) 085
21. Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector ATLAS Collaboration Phys. Rev. Lett. 121 (2018) 211801
22. Operation and performance of the ATLAS Tile Calorimeter in Run 1 ATLAS collaboration Eur.Phys.J. C78 (2018) 987
23. Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at $\sqrt{s}=13$ TeV ATLAS Collaboration Phys. Rev. D 98 (2018) 112010
24. Probing the energy spectrum of hadrons in proton air interactions at ultrahigh energies through the fluctuations of the muon content of extensive air showers. Lorenzo Cazon, Ruben Conceio, Felix Riehn Phys.Lett. B784 (2018) 68-76
25. MARTA: A high-energy cosmic-ray detector concept with high-accuracy muon measurement P. Abreu, S. Andringa, P. Assis, A. Blanco, V. Barbosa Martins, P. Brogueira, N. Carolino, L. Cazon, M. Cerda, G. Cernicchiaro, R. Colalillo, R. Conceio, O. Cunha, R. M. de Almeida, V. de Souza, F. Diogo, C. Dobrigkeit, J. Espadanal, C. Espirito-Santo, M. Ferreira, P. Ferreira, P. Fonte, U. Giaccari, P. Gonalves, F. Guarino, O. C. Lippmann, L. Lopes, R. Luz, D. Maurizio, F. Marujo, P. Mazur, L. Mendes, A. Pereira, M. Pimenta, R. R. Prado, J. Rdky, R. Sarmiento, C. Scarso, R. Shellard, J. Souza, B. Tom, Eur. Phys. J. C (2018) 78: 333
26. The MARTA (Muon Array with RPCs for Tagging Air showers) Front-End acquisition system P. Assis, A. Blanco, P. Brogueira, M. Ferreira and R. Luz IEEE Transactions on Nuclear Science (Volume: 65 , Issue: 12 , Dec. 2018)2920 - 2928

27. Towards a Next Generation of CORSIKA: A Framework for the Simulation of Particle Cascades in Astroparticle Physics Ralph Engel, Dieter Heck, Tim Huege, Tanguy Pierog, Maximilian Reininghaus, Felix Riehn, Ralf Ulrich, Michael Unger, Darko Veberič Comput Softw Big Sci (2019) 3: 2
28. Universal kinematic scaling as a probe of factorized long-distance effects in high-energy quarkonium production Pietro Faccioli, Carlos Lourenco, Mariana Araujo, Joao Seixas Eur. Phys. J. C 78 (2018) 118
29. From identical S- and P-wave p(T) spectra to maximally distinct polarizations: probing NRQCD with chi states Pietro Faccioli, Carlos Lourenco, Mariana Araujo, Joao Seixas, Ilse Kraetschmer, Valentin Knunz Eur. Phys. J. C 78 (2018) 268
30. Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer CMS and TOTEM Collaborations J. High Energy Phys. 7 (2018) 153
31. Charged particle timing at sub-25 picosecond precision: the PICOSEC detection concept M. Gallinaro et al. arXiv:1806.04395
32. Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s}=13\sim\text{TeV}$ P. Bargassa, C. Beirao et al J. High Energy Phys. 9 (2018) 065
33. PICOSEC: Charged particle timing at sub-25 picosecond precision with a Micromegas based detector M. Gallinaro et al. Nucl. Instrum. Meth. A 903, 317 (2018)
34. Deep Diffused APDs for Charged Particle Timing Applications: Performance after Neutron Irradiation M. Gallinaro et al. arXiv:1812.08433
35. Transverse-momentum-dependent multiplicities of charged hadrons in muon-deuteron deep inelastic scattering COMPASS Collaboration Phys. Rev. D 97, 032006 (2018)
36. New analysis of eta-pi tensor resonances measured at the COMPASS experiment JPAC and COMPASS Collaborations Physics Letters B 779 (2018) 464-472
37. Longitudinal double-spin asymmetry A_{1p} and spin dependent structure function g_{1p} of the proton at small values of x and Q^2 M. Aghasyan et al. (COMPASS Collab.) Physics Letters B 781 (2018) 464-472
38. Search for muoproduction of $X(3872)$ at COMPASS and indication of a new state $X^{\sim}(3872)$ M. Aghasyan et al. (COMPASS Collab.) Physics Letters B 783 (2018) 334-340
39. K^- over K^+ multiplicity ratio for kaons produced in DIS with a large fraction of the virtual-photon energy R. Akhunzyanov et al. (COMPASS Coll.) Physics Letters B 786 (2018) 390-398
40. Light isovector resonances in $\pi^-p \rightarrow \pi^-\pi^-\pi^+p$ at 190 GeV/c M. Aghasyan et al. (COMPASS Collab.) Phys. Rev. D 98, 092003 (2018)
41. Azimuthal asymmetries of charged hadrons produced in high-energy muon scattering off longitudinally polarised deuterons C. Adolph et al (COMPASS Coll.) Eur. Phys. J. C (2018) 78:952
42. Measurement of PT-weighted Siverts asymmetries in leptonproduction of hadrons M.G. Alexeev et al (COMPASS Coll.) Nucl. Phys. B 940 (2019) 34-53
43. Design and expected performance of a novel hybrid detector for very-high-energy gamma astrophysics P. Assis, U. Barres de Almeida, A. Blanco, R. Conceição, B. D'Ettore Piazzoli, A. De Angelis, M. Doro, P. Fonte, L. Lopes, G. Matthiae, M. Pimenta, R. Shellard, B. Tomé Astropart.Phys. 101 (2018) 36-36

44. Structure of Be-13 studied in proton knockout from B-14 G. Ribeiro, E. Nacher, O. Tengblad, et al. Phys. Rev. C 98, 024603 (2018)
45. Global constraints on top quark anomalous couplings Frederic Deliot, Ricardo Faria, Miguel C. N. Fiolhais, Pedro Lagarelhos, Antonio Onofre, Christopher M. Pease, Ana Vasconcelos Phys. Rev. D 97 (2018) 013007
46. Universal kinematic scaling as a probe of factorized long-distance effects in high-energy quarkonium production Pietro Faccioli, Carlos Lourenco, Mariana Araujo, Joao Seixas Eur. Phys. J. C 78 (2018) 118
47. Probing the energy spectrum of hadrons in proton air interactions at ultrahigh energies through the fluctuations of the muon content of extensive air showers. Lorenzo Cazon, Ruben Conceição, Felix Riehn Phys.Lett. B784 (2018) 68-76
48. From identical S- and P-wave p(T) spectra to maximally distinct polarizations: probing NRQCD with chi states Pietro Faccioli, Carlos Lourenco, Mariana Araujo, Joao Seixas, Ilse Kraetschmer, Valentin Knunz Eur. Phys. J. C 78 (2018) 268
49. Sensitivity of jet substructure to jet-induced medium response José Guilherme Milhano, Urs Achim Wiedemann, Korinna Christine Zapp Phys.Lett. B779 (2018) 409-413
50. Probing the time structure of the quark-gluon plasma with top quarks Liliana Apolinário, José Guilherme Milhano, Gavin P. Salam, Carlos A. Salgado Phys.Rev.Lett. 120 (2018) no.23, 232301
51. Novel subject observables for jet quenching in heavy-ion collisions Liliana Apolinário, José Guilherme Milhano, Mateusz Ploskon, Xiaoming Zhang Eur.Phys.J. C78 (2018) no.6, 529
52. CP tests of Higgs couplings in tth semileptonic events at the LHC D. Azevedo, A. Onofre, F. Filthaut, and R. Gonçalo Phys.Rev. D98 (2018) 033004
53. The fate of quarkonia in heavy-ion collisions at LHC energies: a unified description of the sequential suppression patterns Pietro Faccioli, Carlos Lourenço Eur.Phys.J. C78 (2018) 731
54. CP in the dark Duarte Azevedo, Pedro M. Ferreira, M. Margarete Muhlleitner, Shruti Patel, Rui Santos, Jonas Wittbrodt J. High Energy Phys. 11 (2018) 091
55. Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at root s=13 TeV ATLAS Collaboration Phys. Rev. D 98 (2018) 112010
56. "Equilibrium and Transport Distributions of DNA in Hydrophilic Nanopores" F.J.A.L. Cruz and J.P.B. Mota 41st Iberian Adsorption Meeting, Gijón, Spain, September 2018.
57. "Thermodynamics and Kinetics of DNA in Hydrophilic Nanopores" F.J.A.L. Cruz and J.P.B. Mota 11th International conference on Advanced Nanomaterials, Aveiro, Portugal, July 2018.
58. "Equilibrium and Transport Distributions of DNA in Hydrophilic Nanotubes" F.J.A.L. Cruz and J.P.B. Mota XIII Physical-Chemistry National Meeting, Faro, Portugal, June 2018.
59. Transitioning from recruit to officer: An investigation of how stress appraisal and coping influence work engagement. International Journal of Selection and Assessment Sinval, J., Sirgy, M. J., Lee, D.-J., & Marôco, J. (2019) International Journal of Selection and Assessment, 27(2), 152–168.
60. Quality of Work Life Scale: Validity evidence from Brazil, and Portugal Sinval, J., Sirgy, M. J., Lee, D.-J., & Marôco, J. (2019) Applied Research in Quality of Life
61. A haplotype-resolved draft genome of the European sardine (*Sardina pilchardus*) B Louro,

- G De Moro, CM Garcia, C Cox, A Veríssimo, SJ Sabatino, .. BioRxiv, 441774
62. Nuclear protein phylogenies support the monophyly of the three bryophyte groups (Bryophyta Schimp.) F de Sousa, PG Foster, PCJ Donoghue, H Schneider, CJ Cox *New Phytologist* 222 (1), 565-575
 63. Hydrophobic confinement modulates thermal stability and assists knotting in the folding of tangled proteins *Physical Chemistry Chemical Physics*, 2019, DOI: 10.1039/C9CP01701A
 64. Nonintrusive Monitoring of Microservice-Based Systems Pina, F., Correia, J., Filipe, R., Araujo, F. and Cardroom, J., 2018, November 2018 IEEE 17th International Symposium on Network Computing and Applications (NCA) (pp. 1-8). IEEE.
 65. Response Time Characterization of Microservice-Based Systems Correia J, Ribeiro F, Filipe R, Araujo F, Cardoso J. 2018 IEEE 17th International Symposium on Network Computing and Applications (NCA) 2018 Nov 1 (pp. 1-5). IEEE.
 66. Near-future changes in storm surges along the Atlantic Iberian coast, *Natural Hazards*, Fortunato, A.B., Meredith, E.P., Rodrigues, M., Freire, P., Feldmann, H. 2018. <https://doi.org/10.1007/s11069-018-3375-z>
 67. umd-verification: Automation of Software Validation for the EGI federated e-Infrastructure, Pablo Orviz, Joao Pina, Álvaro López, Isabel Campos, Jorge Gomes, Mario David, *J Grid Computing* (2018) 16: 683. <https://doi.org/10.1007/s10723-018-9454-2>
 68. INDIGO-DataCloud: a platform to facilitate seamless access to e-infrastructures, D. Salomoni , I. Campos, L. Gaido, J. Marco de Lucas, P. Solagna, J. Gomes, et al, *J Grid Computing* (2018) 16: 381. <https://doi.org/10.1007/s10723-018-9453-3>
 69. Enabling rootless Linux Containers in multi-user environments: the udocker tool, Jorge Gomes, Isabel Campos, Emanuele Bagnaschi, Mario David, Luis Alves, Joao Martins, Joao Pina, Alvaro Lopez-Garcia, Pablo Orviz, *Computer Physics Communications*, Volume 232, 2018, Pages 84-97, ISSN 0010-4655, DOI: 10.1016/j.cpc.2018.05.021
 70. Running high resolution coastal models in forecast systems: moving from workstations and HPC cluster to cloud resources, João Rogeiro, Marta Rodrigues, Alberto Azevedo, Anabela Oliveira, João Paulo Martins, Mário David, João Pina, Nuno Dias, Jorge Gomes, *Advances in Engineering Software*, Volume 117, 2018, Pages 70-79, ISSN 0965-9978, DOI: 10.1016/j.advengsoft.2017.04.002
 71. Electrons in GEO measured with the ESA Multi-Functional Spectrometer during the January 2014 SEP, L. Arruda, P. Goncalves, A. Marques, J. Costa-Pinto, A. Aguilar, P. Marinho, T. Sousa, H. Evans, P. Nieminen, *IEEE TNS Vol65*, Issue 8 pp 1540 - 1545 August 18, DOI: 10.1109/TNS.2018.2854161
 72. Assessment of radiation exposure in manned missions to Mars for three mission profiles, A. L. Casimiro, J. M. Sampaio, P. Gonçalves, M. Pinto, *Radiation and Applications Journal (RAD Journal)*, Volume 3, Issue 1, pp. 27-33, March 2018, DOI: 10.21175/RadJ.2018.01.006
 73. Optimization of the signal-to-background ratio in prompt gamma imaging using energy- and shifting time-of-flight discrimination: experiments with a scanning parallel-slit collimator, P. Cambraia Lopes, P. Crespo, J. Huizenga, D.R. Schaart, *IEEE Trans. Radiat. Plasma Med. Sci.*, vol. 2, pp. 510-9, DOI: 10.1109/TRPMS.2018.2846612
 74. Fast phylogenetic inference from typing data, by J. A. Carriço, M. Crochemore, A. P. Francisco, S. P. Pissis, B. Ribeiro-Gonçalves and C. Vaz. *Algorithms for Molecular Biology*, 13:4, 2018, DOI: 10.1186/s13015-017-0119-7
 75. Dynamic phylogenetic inference for sequence-based typing data, by A. P. Francisco, M.

- Nascimento and C. Vaz. In Proceedings of the 8th ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics, 604-604, 2017, DOI: 10.1145/3107411.3108214
76. An approach to evolve and exploit repertoires of general robot behaviours, Jorge Gomes, Sancho Moura Oliveira, Anders Lyhne Christensen, Swarm and Evolutionary Computation, Volume 43, 2018, Pages 265-283, ISSN 2210-6502, <https://doi.org/10.1016/j.swevo.2018.06.009>.
77. A biobjective feature selection algorithm for large omics datasets, Cavique, L, Mendes, AB, Martiniano, HFMC, Correia, L., Expert Systems. 2018; 35:e12301. <https://doi.org/10.1111/exsy.12301>

Journal Paper with indirect contribution (*)

(*) includes articles of internacional collaboration that used INCD infrastructure without direct contribution from Portuguese researchers.

- Observation of New Properties of Secondary Cosmic Rays Lithium, Beryllium, and Boron by the Alpha Magnetic Spectrometer on the International Space Station M. Aguilar et al. Phys. Rev. Lett. 120 021101
- Precision Measurement of Cosmic-Ray Nitrogen and its Primary and Secondary Components with the Alpha Magnetic Spectrometer on the International Space Station AMS Collaboration Phys. Rev. Lett. 121, 051103
- Observation of Complex Time Structures in the Cosmic-Ray Electron and Positron Fluxes with the Alpha Magnetic Spectrometer on the International Space Station AMS Collaboration Phys. Rev. Lett. 121, 051102
- Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector ATLAS Collaboration (2881 authors) Phys. Lett. B 776 (2018) 295-317
- Search for an invisibly decaying Higgs boson or dark matter candidates produced in association with a Z boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2896 authors) Phys. Lett. B 776 (2018) 318-337
- Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector ATLAS Collaboration (2900 authors) Eur. Phys. J. C 78 (2018) 18
- Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb⁻¹ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2904 authors) J. High Energy Phys. 1 (2018) 055
- Search for heavy resonances decaying into WW in the e ν μ ν final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2888 authors) Eur. Phys. J. C 78 (2018) 24
- Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $\sqrt{s}=13$ TeV with ATLAS ATLAS Collaboration (2861 authors) J. High Energy Phys. 1 (2018) 063

- Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector ATLAS Collaboration (2892 authors) J. High Energy Phys. 1 (2018) 126
- Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2890 authors) Eur. Phys. J. C 78 (2018) 102
- Search for B - L R-parity-violating top squarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS experiment ATLAS Collaboration (2894 authors) Phys. Rev. D 97 (2018) 032003
- Measurement of the W-boson mass in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector ATLAS Collaboration (2841 authors) Eur. Phys. J. C 78 (2018) 110
- $ZZ \rightarrow l^{(+)}l^{(-)}l^{(+)}l^{(-)}$ cross-section measurements and search for anomalous triple gauge couplings in 13 TeV pp collisions with the ATLAS detector Atlas Collaboration (2879 authors) Phys. Rev. D 97 (2018) 032005
- Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2891 authors) Phys. Lett. B 777 (2018) 91-113
- Measurement of the exclusive $\gamma\gamma \rightarrow \mu^{+}\mu^{-}$ process in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2894 authors) Phys. Lett. B 777 (2018) 303-323
- Measurement of long-range multiparticle azimuthal correlations with the subevent cumulant method in pp and p plus Pb collisions with the ATLAS detector at the CERN Large Hadron Collider ATLAS Collaboration / ATLAS Collaboration (2896 authors) Phys. Rev. C 97 (2018) 024904
- Direct top-quark decay width measurement in the $t(\bar{t})$ lepton plus jets channel at $\sqrt{s}=8$ TeV with the ATLAS experiment ATLAS Collaboration (2899 authors) Eur. Phys. J. C 78 (2018) 129
- Measurement of longitudinal flow decorrelations in Pb plus Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.02 TeV with the ATLAS detector ATLAS Collaboration (2902 authors) Eur. Phys. J. C 78 (2018) 142
- Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector ATLAS Collaboration (2882 authors) Eur. Phys. J. C 78 (2018) 154
- Measurement of tau polarisation in $Z/\gamma^{*} \rightarrow \tau\tau$ decays in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector ATLAS Collaboration (2895 authors) Eur. Phys. J. C 78 (2018) 163
- Measurement of quarkonium production in proton-lead and proton-proton collisions at 5.02 TeV with the ATLAS detector Atlas Collaboration (2845 authors) Eur. Phys. J. C 78 (2018) 171
- Searches for heavy ZZ and ZW resonances in the $llqq$ and $\nu\nu qq$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2893 authors) J. High Energy Phys. 3 (2018) 009
- Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s}=13$ TeV with ATLAS ATLAS Collaboration (2869 authors) Eur. Phys. J. C 78 (2018) 186
- Search for WW/WZ resonance production in $lvqq$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2899 authors) J. High Energy Phys. 3 (2018) 042

- Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13\text{TeV}$ ATLAS Collaboration (2907 authors) Eur. Phys. J. C 78 (2018) 199
- Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4l$ decay channel at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector ATLAS Collaboration (2906 authors) J. High Energy Phys. 3 (2018) 095
- A search for pair-produced resonances in four-jet final states at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector ATLAS Collaboration (2876 authors) Eur. Phys. J. C 78 (2018) 250
- Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector ATLAS Collaboration (2855 authors) Phys. Rev. D 97 (2018) 052010
- Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb^{-1} of $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector ATLAS Collaboration (2907 authors) J. High Energy Phys. 3 (2018) 174
- Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector ATLAS Collaboration (2877 authors) Phys. Rev. D 97 (2018) 052012
- Combination of inclusive and differential $t(\bar{t})$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s}=7$ and 8 TeV ATLAS Collaboration / ATLAS Collaboration / CMS Collaboration (5098 authors) J. High Energy Phys. 4 (2018) 033
- Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector ATLAS Collaboration (2856 authors) Phys. Rev. D 97 (2018) 072003
- A search for resonances decaying into a Higgs boson and a new particle X in the $XH \rightarrow qqbb$ final state with the ATLAS detector Atlas Collaboration (2882 authors) Phys. Lett. B 779 (2018) 24-45
- Search for heavy ZZ resonances in the $l^{(+)} l^{(-)} l^{(+)} l^{(-)}$ and $l^{(+)} l^{(-)} \nu(\bar{\nu})$ final states using proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector ATLAS Collaboration (2891 authors) Eur. Phys. J. C 78 (2018) 293
- Search for High-Mass Resonances Decaying to $\tau \nu$ in pp Collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS Detector ATLAS Collaboration (2899 authors) Phys. Rev. Lett. 120 (2018) 161802
- Jets in Heavy Ion Collisions with the ATLAS Detector Helena Santos Int.J.Mod.Phys.Conf.Ser. 46 (2018) 1860020
- Measurement of the production cross-section of a single top quark in association with a Z boson in proton-proton collisions at 13 TeV with the ATLAS detector ATLAS Collaboration (2900 authors) Phys. Lett. B 780 (2018) 557-577
- Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s}=13\text{ TeV}$ using the ATLAS detector ATLAS Collaboration (2904 authors) Phys. Lett. B 780 (2018) 578-602
- Measurement of differential cross sections and W^+/W^- cross-section ratios for W boson production in association with jets at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector Atlas Collaboration (2881 authors) J. High Energy Phys. 5 (2018) 077
- Search for a Structure in the $B\text{-}s(0) \pi^{+/-}$ Invariant Mass Spectrum with the ATLAS Experiment ATLAS Collaboration (2871 authors) Phys. Rev. Lett. 120 (2018) 202007
- Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb^{-1} of pp collisions $\sqrt{s}=13\text{ TeV}$ with the ATLAS experiment

ATLAS Collaboration (2858 authors) Eur. Phys. J. C 78 (2018) 401

- Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment ATLAS Collaboration (2853 authors) Phys. Rev. Lett. 120 (2018) 211802
- Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector ATLAS Collaboration (2766 authors) Phys. Rev. D 97 (2018) 092006
- Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2903 authors) J. High Energy Phys. 5 (2018) 195
- Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2874 authors) J. High Energy Phys. 6 (2018) 022
- Search for squarks and gluinos in final states with jets and missing transverse momentum using 36.1 fb of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector ATLAS collaboration (2875 authors) Phys.Rev. D97 (2018) 112001
- Measurement of the production cross section of three isolated photons in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector ATLAS Collaboration (2849 authors) Phys. Lett. B 781 (2018) 55-76
- Search for $W \rightarrow tb$ decays in the hadronic final state using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2877 authors) Phys. Lett. B 781 (2018) 327-348
- Measurement of the inclusive and fiducial $t\bar{t}$ production cross-sections in the lepton plus jets channel in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector ATLAS Collaboration (2888 authors) Eur. Phys. J. C 78 (2018) 487
- Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2861 authors) J. High Energy Phys. 6 (2018) 107
- Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector ATLAS Collaboration (2870 authors) J. High Energy Phys. 6 (2018) 108
- Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13$ TeV ATLAS Collaboration (2883 authors) J. High Energy Phys. 6 (2018) 166
- Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2884 authors) Eur. Phys. J. C 78 (2018) 565
- Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the $\gamma\gamma$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2855 authors) Phys. Lett. B 782 (2018) 750-767
- Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector ATLAS Collaboration (2892 authors) J. High Energy Phys. 7 (2018) 089
- Search for exclusive Higgs and Z boson decays to $\phi\gamma$ and $\rho\gamma$ with the ATLAS detector ATLAS Collaboration (2883 authors) J. High Energy Phys. 7 (2018) 127
- Measurements of $t\bar{t}$ differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS

- detector M. Aaboud et al. (2889 authors) Phys. Rev. D 98 (2018) 012003
- Search for flavor-changing neutral currents in top quark decays $t \rightarrow Hc$ and $t \rightarrow Hu$ in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2895 authors) Phys. Rev. D 98 (2018) 032002
 - Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector ATLAS Collaboration (2885 authors) Eur. Phys. J. C 78 (2018) 625
 - Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $l\bar{l}b\bar{b}$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2902 authors) Phys. Lett. B 783 (2018) 392-414
 - Search for supersymmetry in events with four or more leptons in $\sqrt{s}=13$ TeV pp collisions with ATLAS ATLAS Collaboration (2879 authors) Phys. Rev. D 98 (2018) 032009
 - Measurements of b-jet tagging efficiency with the ATLAS detector using $t(t)\bar{t}$ events at $\sqrt{s}=13$ TeV ATLAS Collaboration (2912 authors) J. High Energy Phys. 8 (2018) 089
 - Measurement of jet fragmentation in Pb plus Pb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector ATLAS Collaboration (2903 authors) Phys. Rev. C 98 (2018) 024908
 - Search for top squarks decaying to tau sleptons in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2864 authors) Phys. Rev. D 98 (2018) 032008
 - Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in pp Collisions at $\sqrt{s}=13$ TeV ATLAS Collaboration (2900 authors) Phys. Rev. Lett. 121 (2018) 081801
 - Search for heavy resonances decaying to a photon and a hadronically decaying Z/W/H boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2893 authors) Phys. Rev. D 98 (2018) 032015
 - Measurement of the Soft-Drop Jet Mass in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector ATLAS Collaboration (2870 authors) Phys. Rev. Lett. 121 (2018) 092001
 - Search for resonances in the mass distribution of jet pairs with one or two jets identified as b-jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2919 authors) Phys. Rev. D 98 (2018) 032016
 - Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector ATLAS Collaboration (2909 authors) Phys. Rev. D 98 (2018) 052003
 - Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector ATLAS collaboration (2900 authors) JHEP 1809 (2018) 050
 - Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ channels with $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector ATLAS collaboration (2906 authors) Phys.Lett. B784 (2018) 345-366
 - Measurements of Higgs boson properties in the diphoton decay channel with 36 fb⁻¹ of pp collision data at $\sqrt{s}=13$ TeV with the ATLAS detector M. Aaboud et al. (2896 authors) Phys. Rev. D 98 (2018) 052005
 - Prompt and non-prompt J/psi and psi(2S) suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions with the ATLAS experiment ATLAS Collaboration (2905 authors) Eur. Phys. J. C 78 (2018) 762

- Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau(\pm)\nu(\tau)$ in the tau plus jets and tau plus lepton final states with 36 fb⁻¹ of pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS experiment ATLAS Collaboration (2923 authors) J. High Energy Phys. 9 (2018) 139
- Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb⁻¹ of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2916 authors) Phys. Rev. D 98 (2018) 052008
- Prompt and non-prompt J/psi elliptic flow in Pb plus Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector ATLAS Collaboration (2911 authors) Eur. Phys. J. C 78 (2018) 784
- Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector ATLAS Collaboration (2847 authors) Nucl. Phys. A 978 (2018) 65-106
- Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a a \rightarrow 4b$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector ATLAS collaboration (2921 authors) JHEP 1810 (2018) 031
- Angular analysis of $B_d(0) \rightarrow K^* \mu^{+}\mu^{-}$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector ATLAS Collaboration (2857 authors) J. High Energy Phys. 10 (2018) 047
- Search for R-parity-violating supersymmetric particles in multi-jet final states produced in p-p collisions at $\sqrt{s}=13$ TeV using the ATLAS detector at the LHC ATLAS Collaboration (2838 authors) Phys. Lett. B 785 (2018) 136-158
- Probing the quantum interference between singly and doubly resonant top-quark production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS collaboration (2917 authors) Phys.Rev.Lett. 121 (2018) 152002
- Measurement of colour flow using jet-pull observables in $t\bar{t}$ events with the ATLAS experiment at $\sqrt{s}=13$ TeV ATLAS Collaboration (2842 authors) Eur. Phys. J. C 78 (2018) 847
- Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb plus Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector ATLAS Collaboration (2899 authors) Phys. Rev. C 98 (2018) 044905
- Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector ATLAS Collaboration (2885 authors) J. High Energy Phys. 10 (2018) 159
- Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2916 authors) J. High Energy Phys. 10 (2018) 180
- Search for pair production of Higgsinos in final states with at least three b-tagged jets in $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector ATLAS Collaboration (2881 authors) Phys. Rev. D 98 (2018) 092002
- Measurement of the W-boson mass in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector (vol 78, 110, 2018) ATLAS Collaboration (2841 authors) Eur. Phys. J. C 78 (2018) 898
- Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state with 13TeV pp collision data collected by the ATLAS experiment ATLAS Collaboration (2917 authors) J. High Energy Phys. 11 (2018) 040
- Measurement of dijet azimuthal decorrelations in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector and determination of the strong coupling ATLAS Collaboration (2882 authors)

Phys. Rev. D 98 (2018) 092004

- Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}\tau^+\tau^-$ Decay Channel in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector ATLAS Collaboration (2913 authors) Phys. Rev. Lett. 121 (2018) 191801
- Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV ATLAS collaboration (2867 authors) Eur.Phys.J. C 78 (2018) 903
- Search for pair production of heavy vectorlike quarks decaying into hadronic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2908 authors) Phys. Rev. D 98 (2018) 092005
- Combined measurement of differential and total cross sections in the $H \rightarrow \gamma\gamma$ and the $H \rightarrow ZZ^* \rightarrow 4l$ decay channels at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2920 authors) Phys. Lett. B 786 (2018) 114-133
- Searches for exclusive Higgs and Z boson decays into $J/\psi\gamma$, $\psi(2S)\gamma$, and $\Upsilon(nS)\gamma$ at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2916 authors) Phys. Lett. B 786 (2018) 134-155
- Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ\ell\ell$ and $ZZ\ell\ell\ell$ final states with the ATLAS detector ATLAS collaboration (2932 authors) Phys.Lett. B 786 (2018) 223-244
- Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2908 authors) Phys. Rev. D 98 (2018) 092008
- Search for lepton-flavor-violating decays of the Z boson into a τ lepton and a light lepton with the ATLAS detector ATLAS Collaboration (2910 authors) Phys. Rev. D 98 (2018) 092010
- Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced via Two-Photon Scattering in Pb plus Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS Detector ATLAS Collaboration (2905 authors) Phys. Rev. Lett. 121 (2018) 212301
- Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS collaboration (2915 authors) Phys.Rev. D 98 (2018) 092012
- Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at E-beam=4 TeV ATLAS Collaboration (2883 authors) J. Instrum. 13 (2018) P12006
- Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2876 authors) Eur. Phys. J. C 78 (2018) 995
- Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector The ATLAS collaboration (2924 authors) J. High Energy Phys. 12 (2018) 039
- Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{NN}}=5.02$ TeV Pb+ Pb collisions with the ATLAS detector ATLAS Collaboration (2916 authors) Eur. Phys. J. C 78 (2018) 997
- Search for resonant W Z production in the fully leptonic final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2891 authors) Phys. Lett. B 787 (2018) 68-88

- Search for Higgs boson pair production in the WW^* channel using pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration (2915 authors) Eur. Phys. J. C 78 (2018) 1007
- An Indication of anisotropy in arrival directions of ultra-high-energy cosmic rays through comparison to the flux pattern of extragalactic gamma-ray sources The Pierre Auger Collaboration The Astrophysical Journal Letters 853:L29, 2018
- Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory (vol 4, 038, 2017) Pierre Auger Collaboration J. Cosmol. Astropart. Phys. 3 (2018) E02
- Observation of inclined EeV air showers with the radio detector of the Pierre Auger Observatory The Pierre Auger Collaboration JCAP10(2018)026
- Large-scale cosmic-ray anisotropies above 4 EeV measured by the Pierre Auger Observatory The Pierre Auger Collaboration 2018 ApJ 868 4
- Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV CMS Collaboration (2229 authors) Phys. Lett. B 776 (2018) 195-216
- Measurements of $t\bar{t}$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2196 authors) Phys. Lett. B 776 (2018) 355-378
- Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}}=5.02$ and 8.16 TeV CMS Collaboration (2223 authors) J. High Energy Phys. 1 (2018) 045
- Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV (vol 9, 106, 2017) CMS Collaboration (2244 authors) J. High Energy Phys. 1 (2018) 056
- Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\ell\ell$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2158 authors) J. High Energy Phys. 1 (2018) 054
- Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2263 authors) J. High Energy Phys. 1 (2018) 097
- Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks CMS Collaboration (2258 authors) Phys. Rev. D 97 (2018) 012007
- Constraint on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s}=8$ TeV CMS Collaboration (2230 authors) J. High Energy Phys. 2 (2018) 032
- Search for Higgsino pair production in pp collisions at $\sqrt{s}=13$ TeV in final states with large missing transverse momentum and two Higgs bosons decaying via $H \rightarrow b\bar{b}$ CMS Collaboration (2214 authors) Phys. Rev. D 97 (2018) 032007
- Search for heavy resonances decaying to a top quark and a bottom quark in the lepton plus jets final state in proton-proton collisions at 13 TeV CMS Collaboration (2233 authors) Phys. Lett. B 777 (2018) 39-63
- Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2239 authors) J. High Energy Phys. 2 (2018) 067
- Search for top squarks and dark matter particles in opposite-charge dilepton final states at

root s=13 TeV CMS Collaboration (2230 authors) Phys. Rev. D 97 (2018) 032009

- Inclusive search for a highly boosted Higgs boson decaying to a bottom quark-antiquark pair CMS collaboration (2263 authors) Phys.Rev.Lett. 120 (2018) 071802
- Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at root s=13TeV CMS Collaboration (2273 authors) Eur. Phys. J. C 78 (2018) 140
- Observation of electroweak production of same-sign W boson pairs in the two jet and two same-sign lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV CMS collaboration (2265 authors) Phys.Rev.Lett. 120 (2018) 081801
- Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4l$ branching fraction, and constraints on anomalous triple gauge couplings at root s=13TeV CMS Collaboration (2229 authors) Eur. Phys. J. C 78 (2018) 165
- Measurements of the $p\bar{p} \rightarrow Z\gamma$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$, ext {TeV} CMS collaboration (2240 authors) Eur.Phys.J. C78 (2018) 515
- Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in pp and p plus Pb Collisions at the LHC CMS Collaboration (2228 authors) Phys. Rev. Lett. 120 (2018) 092301
- Search for ZZ resonances in the $2l2\nu$ final state in proton-proton collisions at 13 TeV CMS Collaboration (2268 authors) J. High Energy Phys. 3 (2018) 003
- Search for third-generation scalar leptoquarks decaying to a top quark and a μ lepton at $\sqrt{s}=13$ TeV CMS collaboration (2291 authors) Eur.Phys.J. C78 (2018) 707
- Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at root s=13 TeV CMS Collaboration (2236 authors) Phys. Lett. B 778 (2018) 101-127
- Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at root s=13 TeV CMS Collaboration (2232 authors) Phys. Lett. B 778 (2018) 263-291
- Search for pair production of excited top quarks in the lepton plus jets final state The CMS Collaboration CMS Collaboration (2258 authors) Phys. Lett. B 778 (2018) 349-370
- Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at root s=13TeV CMS Collaboration (2239 authors) J. High Energy Phys. 3 (2018) 076
- Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying μ leptons at $\sqrt{s} = 13$ TeV CMS collaboration (2301 authors) JHEP 1808 (2018) 066
- Measurement of the inclusive $t\bar{t}$ cross section in pp collisions root s=5.02 TeV using final states with at least one charged lepton CMS Collaboration (2239 authors) J. High Energy Phys. 3 (2018) 115
- Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at root s=7 TeV CMS Collaboration (2228 authors) Eur. Phys. J. C 78 (2018) 242
- Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at root s=8 TeV CMS Collaboration (2226 authors) J. High Energy Phys. 3 (2018) 167
- Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at root s=13 TeV CMS Collaboration (2233 authors) J. High Energy

Phys. 3 (2018) 166

- Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2253 authors) J. High Energy Phys. 3 (2018) 160
- Measurement of differential cross sections in the kinematic angular variable ϕ^* for inclusive Z boson production in pp collisions at $\sqrt{s}=8$ TeV CMS Collaboration (2261 authors) J. High Energy Phys. 3 (2018) 172
- Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV CMS Collaboration (2297 authors) J. High Energy Phys. 3 (2018) 181
- Suppression of Excited gamma States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV A. M. Sirunyan et al. (2228 authors) Phys. Rev. Lett. 120 (2018) 142301
- Measurement of the Splitting Function in $\sqrt{s_{NN}}=5.02$ TeV Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV CMS Collaboration (2236 authors) Phys. Rev. Lett. 120 (2018) 142302
- Measurement of associated Z plus charm production in proton-proton collisions at $\sqrt{s}=8$ TeV CMS Collaboration (2209 authors) Eur. Phys. J. C 78 (2018) 287
- Search for pair production of vector-like quarks in the $bW(b)\overline{b}W$ channel from proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2234 authors) Phys. Lett. B 779 (2018) 82-106
- Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s}=13$ TeV CMS Collaboration (2239 authors) Phys. Lett. B 779 (2018) 166-190
- Measurement of the associated production of a single top quark and a Z boson in pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2283 authors) Phys. Lett. B 779 (2018) 358-384
- Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at $\sqrt{s}=13$ TeV CMS Collaboration (2235 authors) Phys. Rev. D 97 (2018) 072006
- Observation of the Higgs boson decay to a pair of $\mu^+\mu^-$ leptons with the CMS detector CMS collaboration (2235 authors) Phys. Lett. B 779 (2018) 283-316
- Measurement of normalized differential $t(\overline{t})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2223 authors) J. High Energy Phys. 4 (2018) 060
- Search for vectorlike light-flavor quark partners in proton-proton collisions at $\sqrt{s}=8$ TeV A. M. Sirunyan et al. (2223 authors) Phys. Rev. D 97 (2018) 072008
- Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s}=13$ TeV CMS collaboration (2261 authors) Eur. Phys. J. C 78 (2018) 291
- Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\mu$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2301 authors) J. High Energy Phys. 4 (2018) 073
- Measurement of the $\Lambda(b)$ polarization and angular parameters in $\Lambda(b) \rightarrow J/\psi \Lambda$ decays from pp collisions at $\sqrt{s}=7$ and 8 TeV CMS Collaboration (2273 authors) Phys. Rev. D 97 (2018) 072010
- Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider CMS Collaboration (2258 authors) Phys. Rev. C 97 (2018) 044912

- Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV CMS Collaboration (2265 authors) J. Instrum. 13 (2018) P05011
- Jet properties in PbPb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV CMS Collaboration (2303 authors) J. High Energy Phys. 5 (2018) 006
- Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum CMS Collaboration (2302 authors) J. High Energy Phys. 5 (2018) 025
- Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2261 authors) Phys. Lett. B 780 (2018) 118-143
- Measurement of quarkonium production cross sections in pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2240 authors) Phys. Lett. B 780 (2018) 251-272
- Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2240 authors) Phys. Lett. B 780 (2018) 384-409
- Evidence for the Higgs boson decay to a bottom quark-antiquark pair CMS Collaboration (2257 authors) Phys. Lett. B 780 (2018) 501-532
- Search for new long-lived particles at $\sqrt{s}=13$ TeV CMS collaboration (2238 authors) Phys. Lett. B 780 (2018) 432-454
- Search for Narrow Resonances in the b-Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=8$ TeV CMS Collaboration (2276 authors) Phys. Rev. Lett. 120 (2018) 201801
- Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state $\sqrt{s}=13$ TeV CMS Collaboration (2300 authors) J. High Energy Phys. 5 (2018) 088
- Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV CMS Collaboration (2219 authors) Phys. Rev. Lett. 120 (2018) 202301
- Search for the X(5568) State Decaying into $B_s(0)\pi(+/-)$ in Proton-Proton Collisions at $\sqrt{s}=8$ TeV CMS Collaboration (2234 authors) Phys. Rev. Lett. 120 (2018) 202005
- Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at $\sqrt{s}=13$ TeV CMS Collaboration (2253 authors) Phys. Rev. D 97 (2018) 092005
- Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV CMS collaboration (2281 authors) JHEP 1805 (2018) 127
- Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets $\sqrt{s}=13$ TeV CMS Collaboration (2303 authors) J. High Energy Phys. 5 (2018) 148
- Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV A. M. Sirunyan et al. (2291 authors) Phys. Rev. Lett. 120 (2018) 221801
- Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2333 authors) J. Instrum. 13 (2018) P06015
- Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration

- (2291 authors) J. High Energy Phys. 6 (2018) 002
- Observation of $t\bar{t}$ Production CMS Collaboration (2302 authors) Phys. Rev. Lett. 120 (2018) 231801
 - Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV CMS Collaboration (2261 authors) J. High Energy Phys. 6 (2018) 027
 - Search for single production of vector-like quarks decaying to a b quark and a Higgs boson CMS Collaboration (2283 authors) J. High Energy Phys. 6 (2018)
 - Measurement of b hadron lifetimes in pp collisions at $\sqrt{s}=8$ TeV A. M. Sirunyan et al. (2260 authors) Eur. Phys. J. C 78 (2018) 457
 - Search for excited quarks of light and heavy flavor in gamma plus jet final states in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2271 authors) Phys. Lett. B 781 (2018) 390-411
 - Measurement of angular parameters from the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s}=8$ TeV CMS Collaboration (2257 authors) Phys. Lett. B 781 (2018) 517-541
 - Search for single production of a vector- like T quark decaying to a Z boson and a top quark in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2242 authors) Phys. Lett. B 781 (2018) 574-600
 - Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s}=13$ TeV CMS collaboration (2268 authors) Phys. Lett. B 781 (2018) 244-269
 - Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV CMS Collaboration (2286 authors) Phys. Rev. Lett. 120 (2018) 241801
 - Bose-Einstein correlations in pp, pPb, and PbPb collisions at $\sqrt{s_{NN}}=0.9-7$ TeV CMS Collaboration (2215 authors) Phys. Rev. C 97 (2018) 064912
 - Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton plus jets events from pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2299 authors) Phys. Rev. D 97 (2018) 112003
 - Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s}=13$ TeV CMS Collaboration (2283 authors) J. High Energy Phys. 6 (2018) 102
 - Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV CMS Collaboration (2229 authors) Eur. Phys. J. C 78 (2018) 509
 - Search for $t\bar{t}$ production in the all-jet final state in proton-proton collisions $\sqrt{s}=13$ TeV CMS Collaboration (2299 authors) J. High Energy Phys. 6 (2018) 101
 - Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2297 authors) J. High Energy Phys. 6 (2018) 120
 - Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4l$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV (vol 78, 165, 2018) CMS Collaboration (2237 authors) Eur. Phys. J. C 78 (2018) 515
 - Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV Cms Collaboration (2301 authors) J. High Energy Phys. 6 (2018) 128

- Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2303 authors) J. High Energy Phys. 6 (2018) 127
- Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2241 authors) J. High Energy Phys. 7 (2018) 032
- Measurement of b hadron lifetimes in pp collisions at $\sqrt{s} = 8$ TeV (vol 78, 2018) CMS Collaboration (2253 authors) Eur. Phys. J. C 78 (2018) 561
- Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2285 authors) Phys. Lett. B 782 (2018) 440-467
- Nuclear modification factor of D-0 mesons in PbPb collisions at $\sqrt{s(NN)}=5.02$ TeV CMS Collaboration (2237 authors) Phys. Lett. B 782 (2018) 474-496
- Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2256 authors) Eur. Phys. J. C 78 (2018) 566
- Search for a heavy resonance decaying into a Z boson and a vector boson in the $\nu(\nu)\overline{\text{bar}}q(q)\overline{\text{bar}}$ final state CMS Collaboration (2276 authors) J. High Energy Phys. 7 (2018) 075
- Search for the Higgs boson decaying to two muons in proton-proton collisions at $\sqrt{s} = 13$ TeV CMS collaboration (2288 authors) Phys.Rev.Lett. 122 (2019) 021801
- Search for a singly produced third-generation scalar leptoquark decaying to a μ lepton and a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV CMS collaboration (2302 authors) JHEP 1807 (2018) 115
- Electroweak production of two jets in association with a Z boson in proton-proton collisions $\sqrt{s} = 13$ TeV CMS Collaboration (2261 authors) Eur. Phys. J. C 78 (2018) 589
- Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV CMS Collaboration (2259 authors) J. High Energy Phys. 7 (2018) 161
- Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2234 authors) J. High Energy Phys. 8 (2018) 011
- Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s(NN)}=5.02$ TeV CMS Collaboration (2298 authors) Phys. Rev. Lett. 121 (2018) 062002
- Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2290 authors) J. High Energy Phys. 8 (2018) 016
- Search for R-parity violating supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV using b jets in a final state with a single lepton, many jets, and high sum of large-radius jet masses CMS collaboration (2282 authors) Phys.Lett. B783 (2018) 114-139
- Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s}=13$ TeV CMS collaboration (2303 authors) Phys.Rev. D98 (2018) 032005
- Search for beyond the standard model Higgs bosons decaying into a $b(b)\overline{\text{bar}}$ pair in pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2263 authors) J. High Energy Phys. 8 (2018) 113
- Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter mediators and other new particles CMS Collaboration (2276

- authors) J. High Energy Phys. 8 (2018) 130
- Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at $\sqrt{s}=8.16$ TeV CMS Collaboration (2289 authors) Phys. Rev. Lett. 121 (2018) 082301
 - Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV CMS Collaboration (2277 authors) J. High Energy Phys. 8 (2018) 152
 - Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ TeV CMS Collaboration (2261 authors) J. High Energy Phys. 8 (2018) 177
 - Observation of the $\chi(b1)(3P)$ and $\chi(b2)(3P)$ and Measurement of their Masses CMS Collaboration (2300 authors) Phys. Rev. Lett. 121 (2018) 092002
 - Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2264 authors) Eur. Phys. J. C 78 (2018) 697
 - Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV CMS Collaboration (2263 authors) Eur. Phys. J. C 78 (2018) 701
 - Measurement of the $Z/\gamma^* \rightarrow \tau\tau$ cross section in pp collisions at $\sqrt{s}=13$ TeV and validation of tau lepton analysis techniques CMS Collaboration (2253 authors) Eur. Phys. J. C 78 (2018) 708
 - Search for additional neutral MSSM Higgs bosons in the tau tau final state in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2305 authors) J. High Energy Phys. 9 (2018) 007
 - Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or $\tau(+)\tau(-)$ at $\sqrt{s}=13$ TeV CMS Collaboration (2304 authors) J. High Energy Phys. 9 (2018) 046
 - Observation of Higgs Boson Decay to Bottom Quarks CMS Collaboration (2257 authors) Phys. Rev. Lett. 121 (2018) 121801
 - Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2l2q$ final states at $\sqrt{s}=13$ TeV CMS Collaboration (2304 authors) J. High Energy Phys. 9 (2018) 101
 - Search for Z gamma resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2235 authors) J. High Energy Phys. 9 (2018) 148
 - Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models CMS Collaboration (2274 authors) Eur. Phys. J. C 78 (2018) 789
 - Precision measurement of the structure of the CMS inner tracking system using nuclear interactions CMS Collaboration (2498 authors) J. Instrum. 13 (2018) P10034
 - Performance of reconstruction and identification of tau leptons decaying to hadrons and $\nu(\tau)$ in pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2297 authors) J. Instrum. 13 (2018) P10005
 - Observation of the $Z \rightarrow \psi l(+)l(-)$ Decay in pp Collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2270 authors) Phys. Rev. Lett. 121 (2018) 141801
 - Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions CMS Collaboration (2200 authors) Phys. Rev. C 98 (2018) 044902
 - Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2305 authors) Phys. Rev. Lett. 121

(2018) 141802

- Study of jet quenching with isolated-photon plus jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV CMS Collaboration (2238 authors) Phys. Lett. B 785 (2018) 14-39
- Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV The CMS Collaboration CMS Collaboration (2273 authors) Phys. Lett. B 785 (2018) 462-488
- Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2313 authors) J. High Energy Phys. 10 (2018) 117
- Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{NN}}=5.44$ TeV CMS Collaboration (2316 authors) J. High Energy Phys. 10 (2018) 138
- Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV CMS Collaboration (2300 authors) J. High Energy Phys. 10 (2018) 161
- Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2270 authors) Phys. Rev. D 98 (2018) 092001
- Measurement of the top quark mass with lepton+jets final states using $\sqrt{s}=13$ TeV CMS collisions at $\sqrt{s}=13$, ext {TeV} \$ CMS collaboration (2306 authors) Eur.Phys.J. C 78 (2018) 891
- Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two tau leptons in proton-proton collisions at TeV CMS Collaboration (2302 authors) J. High Energy Phys. 11 (2018) 018
- Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions a $\sqrt{s}=13$ TeVt CMS Collaboration (2304 authors) J. High Energy Phys. 11 (2018) 042
- Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2321 authors) J. High Energy Phys. 11 (2018) 079
- Studies of $B_s^{*0}(5840)$ and $B_s(5830)$ mesons including the observation of the $B_s^{*0}(5840) \rightarrow (BKS^0)-K^0$ decay in proton- proton collisions at $\sqrt{s}=8$ TeV CMS Collaboration (2304 authors) Eur. Phys. J. C 78 (2018) 939
- Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2298 authors) Phys. Rev. D 98 (2018) 092011
- Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV CMS Collaboration (2304 authors) J. High Energy Phys. 11 (2018) 115
- Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton -proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2300 authors) J. High Energy Phys. 11 (2018) 113
- Measurement of differential cross sections for Z boson production in association with jets in proton- proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2322 authors) Eur. Phys. J. C 78 (2018) 965
- Search for supersymmetry in events with a tau lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2297 authors) J. High Energy Phys. 11 (2018) 151

- Search for the decay of a Higgs boson in the $\ell\ell\gamma$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2301 authors) J. High Energy Phys. 11 (2018) 152
- Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV CMS Collaboration (2305 authors) J. High Energy Phys. 11 (2018) 161
- Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV CMS collaboration (2302 authors) JHEP 1811 (2018) 172
- Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2301 authors) J. High Energy Phys. 11 (2018) 185
- Measurement of jet substructure observables in $t\bar{t}$ events from proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2302 authors) Phys. Rev. D 98 (2018) 092014
- Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2301 authors) Phys. Rev. Lett. 121 (2018) 221802
- Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV CMS Collaboration (2304 authors) Phys. Rev. Lett. 121 (2018) 241802
- Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV Using Isolated Photon-Tagged Jets CMS Collaboration (2259 authors) Phys. Rev. Lett. 121 (2018) 242301
- Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s}=13$ TeV The CMS collaboration (2305 authors) J. High Energy Phys. 12 (2018) 117
- Angular analysis of the decay $B^+ \rightarrow K^+\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s}=8$ TeV CMS Collaboration (2297 authors) Phys. Rev. D 98 (2018) 112011
- Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV CMS collaboration (2297 authors) Phys.Rev. D98 (2018) 112014
- Science with e-ASTROGAM A space mission for MeV-GeV gamma-ray astrophysics e-ASTROGAM Collaboration J. High Energy Astrophys. 19 (2018) 1-106
- Gamma-ray astrophysics A. De Angelis, M. Mallamaci Eur. Phys. J. Plus 133 (2018) 324
- Erratum: Design and expected performance of a novel hybrid detector for very-high-energy gamma-ray astrophysics (vol 99, pg 34, 2018) P. Assis et al. Astropart Phys. 101 (2018) 36-36
- Quasifree (p,pN) scattering of light neutron-rich nuclei near $N=14$ Díaz Fernández, P. et al. Phys.Rev. C97 (2018) 024311
- INVESTIGATION OF LOW-LYING STATES IN ^{133}Sn POPULATED IN THE beta DECAY OF ^{133}In USING ISOMER-SELECTIVE LASER IONIZATION M. Piersa et al. Acta Phys. Pol. B 49 (2018) 523-528
- Comparison of electromagnetic and nuclear dissociation of ^{17}Ne F. Wamers, J. Marganec, F. Aksouh, ..., D Galaviz, et al. Phys. Rev. C 97, 034612 (2018)
- Strong Neutron Pairing in core+4n Nuclei R3B Collaboration Phys. Rev. Lett. 120 (2018) 152504
- Machine Learning in High Energy Physics Community White Paper J.P. Araque, N. Castro et al. J.Phys.Conf.Ser. 1085 (2018) no.2, 022008
- Temperature quenching in LAB based liquid scintillator A. Sörensen, S. Hans, A.R. Junghans, B.v. Krosigk, T. Kögler, V. Lozza, A. Wagner, M. Yeh, K. Zuber Eur.Phys.J. C78 (2018) 9

- Tests of Lorentz invariance at the Sudbury Neutrino Observatory SNO collaboration Phys.Rev. D98 (2018) 112013
- Observation of Fine Time Structures in the Cosmic Proton and Helium Fluxes with the Alpha Magnetic Spectrometer on the International Space Station AMS Collaboration Phys. Rev. Lett. 121, 051101
- Testing Diffusion of Cosmic Rays in the Heliosphere with Proton and Helium Data from AMS N. Tomassetti, F. Barão, B. Bertucci, E. Fiandrini, J. L. Figueiredo, J. B. Lousada, and M. Orcinha Phys. Rev. Lett. 121, 251104
- Search for the standard model Higgs boson produced in association with top quarks and decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration Phys. Rev. D 97 (2018) 072016
- Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration J. High Energy Phys. 7 (2018) 176
- The High Voltage distribution system of the ATLAS Tile Calorimeter and its performance during data taking D. Calvet, S. Calvet, R. Chadelas, D. Cinca, Ph. Grenier, P. Gris, P. Lafarguette, D. Lambert, M. Marjanovi, L. F. Oleiro Seabra, F. M. Pedro Martins, J. B. Pena Madeira Gouveia De Campos, S. M. Romano Saez, P. Rosnet, C. Santoni, L. Valéry, F. Vazeille JINST 13 (2018) P08006
- Search for pair production of heavy vector-like quarks decaying into high-(PT) W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector ATLAS Collaboration J. High Energy Phys. 8 (2018) 048
- CP tests of Higgs couplings in $t\bar{t}h$ semileptonic events at the LHC D. Azevedo, A. Onofre, F. Filthaut, and R. Gonçalo Phys.Rev. D98 (2018) 033004
- Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector ATLAS Collaboration Phys. Lett. B 784 (2018) 173, arXiv:1806.00425 [hep-ex]
- Observation of $H \rightarrow b\bar{b}$ decays and VH production with the ATLAS detector ATLAS Collaboration Phys. Lett. B 786 (2018) 59-86
- Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector ATLAS collaboration JHEP 1811 (2018) 085
- Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector ATLAS Collaboration Phys. Rev. Lett. 121 (2018) 211801
- Operation and performance of the ATLAS Tile Calorimeter in Run 1 ATLAS collaboration Eur.Phys.J. C78 (2018) 987
- Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at $\sqrt{s}=13$ TeV ATLAS Collaboration Phys. Rev. D 98 (2018) 112010
- Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at $\sqrt{s}=13$ TeV ATLAS Collaboration Phys. Rev. D 98 (2018) 112010
- Probing the energy spectrum of hadrons in proton air interactions at ultrahigh energies through the fluctuations of the muon content of extensive air showers. Lorenzo Cazon, Ruben Conceição, Felix Riehn Phys.Lett. B784 (2018) 68-76

- MARTA: A high-energy cosmic-ray detector concept with high-accuracy muon measurement P. Abreu, S. Andringa, P. Assis, A. Blanco, V. Barbosa Martins, P. Brogueira, N. Carolino, L. Cazon, M. Cerda, G. Cernicchiaro, R. Colalillo, R. Conceição, O. Cunha, R. M. de Almeida, V. de Souza, F. Diogo, C. Dobrigkeit, J. Espadanal, C. Espirito-Santo, M. Ferreira, P. Ferreira, P. Fonte, U. Giaccari, P. Gonçalves, F. Guarino, O. C. Lippmann, L. Lopes, R. Luz, D. Maurizio, F. Marujo, P. Mazur, L. Mendes, A. Pereira, M. Pimenta, R. R. Prado, J. Rídký, R. Sarmento, C. Scarso, R. Shellard, J. Souza, B. Tomé, Eur. Phys. J. C (2018) 78: 333
- MARTA: A high-energy cosmic-ray detector concept with high-accuracy muon measurement P. Abreu, S. Andringa, P. Assis, A. Blanco, V. Barbosa Martins, P. Brogueira, N. Carolino, L. Cazon, M. Cerda, G. Cernicchiaro, R. Colalillo, R. Conceição, O. Cunha, R. M. de Almeida, V. de Souza, F. Diogo, C. Dobrigkeit, J. Espadanal, C. Espirito-Santo, M. Ferreira, P. Ferreira, P. Fonte, U. Giaccari, P. Gonçalves, F. Guarino, O. C. Lippmann, L. Lopes, R. Luz, D. Maurizio, F. Marujo, P. Mazur, L. Mendes, A. Pereira, M. Pimenta, R. R. Prado, J. Rídký, R. Sarmento, C. Scarso, R. Shellard, J. Souza, B. Tomé, Eur. Phys. J. C (2018) 78: 333
- MARTA: A high-energy cosmic-ray detector concept with high-accuracy muon measurement P. Abreu, S. Andringa, P. Assis, A. Blanco, V. Barbosa Martins, P. Brogueira, N. Carolino, L. Cazon, M. Cerda, G. Cernicchiaro, R. Colalillo, R. Conceição, O. Cunha, R. M. de Almeida, V. de Souza, F. Diogo, C. Dobrigkeit, J. Espadanal, C. Espirito-Santo, M. Ferreira, P. Ferreira, P. Fonte, U. Giaccari, P. Gonçalves, F. Guarino, O. C. Lippmann, L. Lopes, R. Luz, D. Maurizio, F. Marujo, P. Mazur, L. Mendes, A. Pereira, M. Pimenta, R. R. Prado, J. Rídký, R. Sarmento, C. Scarso, R. Shellard, J. Souza, B. Tomé, Eur. Phys. J. C (2018) 78: 333
- The MARTA (Muon Array with RPCs for Tagging Air showers) Front-End acquisition system P. Assis, A. Blanco, P. Brogueira, M. Ferreira and R. Luz IEEE Transactions on Nuclear Science (Volume: 65 , Issue: 12 , Dec. 2018)2920 - 2928
- The MARTA (Muon Array with RPCs for Tagging Air showers) Front-End acquisition system P. Assis, A. Blanco, P. Brogueira, M. Ferreira and R. Luz IEEE Transactions on Nuclear Science (Volume: 65 , Issue: 12 , Dec. 2018)2920 - 2928
- The MARTA (Muon Array with RPCs for Tagging Air showers) Front-End acquisition system P. Assis, A. Blanco, P. Brogueira, M. Ferreira and R. Luz IEEE Transactions on Nuclear Science (Volume: 65 , Issue: 12 , Dec. 2018)2920 - 2928
- Towards a Next Generation of CORSIKA: A Framework for the Simulation of Particle Cascades in Astroparticle Physics Ralph Engel, Dieter Heck, Tim Huege, Tanguy Pierog, Maximilian Reininghaus, Felix Riehn, Ralf Ulrich, Michael Unger, Darko Veberič Comput Softw Big Sci (2019) 3: 2
- Universal kinematic scaling as a probe of factorized long-distance effects in high-energy quarkonium production Pietro Faccioli, Carlos Lourenco, Mariana Araujo, Joao Seixas Eur. Phys. J. C 78 (2018) 118
- From identical S- and P-wave p(T) spectra to maximally distinct polarizations: probing NRQCD with chi states Pietro Faccioli, Carlos Lourenco, Mariana Araujo, Joao Seixas, Ilse Kraetschmer, Valentin Knunz Eur. Phys. J. C 78 (2018) 268
- Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer CMS and TOTEM Collaborations J. High Energy Phys. 7 (2018) 153
- Charged particle timing at sub-25 picosecond precision: the PICOSEC detection concept M. Gallinaro et al. arXiv:1806.04395

- Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s}=13\sim\text{TeV}$ P. Bargassa, C. Beirao et al J. High Energy Phys. 9 (2018) 065
- PICOSEC: Charged particle timing at sub-25 picosecond precision with a Micromegas based detector M. Gallinaro et al. Nucl. Instrum. Meth. A 903, 317 (2018)
- Deep Diffused APDs for Charged Particle Timing Applications: Performance after Neutron Irradiation M. Gallinaro et al. arXiv:1812.08433
- Transverse-momentum-dependent multiplicities of charged hadrons in muon-deuteron deep inelastic scattering COMPASS Collaboration Phys. Rev. D 97, 032006 (2018)
- New analysis of eta-pi tensor resonances measured at the COMPASS experiment JPAC and COMPASS Collaborations Physics Letters B 779 (2018) 464-472
- Longitudinal double-spin asymmetry A_{1p} and spin dependent structure function g_{1p} of the proton at small values of x and Q^2 M. Aghasyan et al. (COMPASS Collab.) Physics Letters B 781 (2018) 464-472
- Search for muoproduction of $X(3872)$ at COMPASS and indication of a new state $X^{\sim}(3872)$ M. Aghasyan et al. (COMPASS Collab.) Physics Letters B 783 (2018) 334-340
- K^- over K^+ multiplicity ratio for kaons produced in DIS with a large fraction of the virtual-photon energy R. Akhunzyanov et al. (COMPASS Coll.) Physics Letters B 786 (2018) 390-398
- Light isovector resonances in $\pi^-p \rightarrow \pi^-\pi^-\pi^+p$ at 190 GeV/c M. Aghasyan et al. (COMPASS Collab.) Phys. Rev. D 98, 092003 (2018)
- Azimuthal asymmetries of charged hadrons produced in high-energy muon scattering off longitudinally polarised deuterons C. Adolph et al (COMPASS Coll.) Eur. Phys. J. C (2018) 78:952
- Measurement of PT-weighted Siverts asymmetries in leptonproduction of hadrons M.G. Alexeev et al (COMPASS Coll.) Nucl. Phys. B 940 (2019) 34-53
- Design and expected performance of a novel hybrid detector for very-high-energy gamma astrophysics P. Assis, U. Barres de Almeida, A. Blanco, R. Conceição, B. D'Ettore Piazzoli, A. De Angelis, M. Doro, P. Fonte, L. Lopes, G. Matthiae, M. Pimenta, R. Shellard, B. Tomé Astropart.Phys. 101 (2018) 36-36
- Structure of Be-13 studied in proton knockout from B-14 G. Ribeiro, E. Nacher, O. Tengblad, et al. Phys. Rev. C 98, 024603 (2018)
- Global constraints on top quark anomalous couplings Frederic Deliot, Ricardo Faria, Miguel C. N. Fiolhais, Pedro Lagarelhos, Antonio Onofre, Christopher M. Pease, Ana Vasconcelos Phys. Rev. D 97 (2018) 013007
- Global constraints on top quark anomalous couplings Frederic Deliot, Ricardo Faria, Miguel C. N. Fiolhais, Pedro Lagarelhos, Antonio Onofre, Christopher M. Pease, Ana Vasconcelos Phys. Rev. D 97 (2018) 013007
- Universal kinematic scaling as a probe of factorized long-distance effects in high-energy quarkonium production Pietro Faccioli, Carlos Lourenco, Mariana Araujo, Joao Seixas Eur. Phys. J. C 78 (2018) 118
- Probing the energy spectrum of hadrons in proton air interactions at ultrahigh energies through the fluctuations of the muon content of extensive air showers. Lorenzo Cazon, Ruben Conceição, Felix Riehn Phys.Lett. B784 (2018) 68-76
- Probing the energy spectrum of hadrons in proton air interactions at ultrahigh energies through the fluctuations of the muon content of extensive air showers. Lorenzo Cazon,

Ruben Conceição, Felix Riehn Phys.Lett. B784 (2018) 68-76

- From identical S- and P-wave p(T) spectra to maximally distinct polarizations: probing NRQCD with chi states Pietro Faccioli, Carlos Lourenco, Mariana Araujo, Joao Seixas, Ilse Kraetschmer, Valentin Knunz Eur. Phys. J. C 78 (2018) 268
- Sensitivity of jet substructure to jet-induced medium response José Guilherme Milhano, Urs Achim Wiedemann, Korinna Christine Zapp Phys.Lett. B779 (2018) 409-413
- Sensitivity of jet substructure to jet-induced medium response José Guilherme Milhano, Urs Achim Wiedemann, Korinna Christine Zapp Phys.Lett. B779 (2018) 409-413
- Probing the time structure of the quark-gluon plasma with top quarks Liliana Apolinário, José Guilherme Milhano, Gavin P. Salam, Carlos A. Salgado Phys.Rev.Lett. 120 (2018) no.23, 232301
- Probing the time structure of the quark-gluon plasma with top quarks Liliana Apolinário, José Guilherme Milhano, Gavin P. Salam, Carlos A. Salgado Phys.Rev.Lett. 120 (2018) no.23, 232301
- Novel subjet observables for jet quenching in heavy-ion collisions Liliana Apolinário, José Guilherme Milhano, Mateusz Ploskon, Xiaoming Zhang Eur.Phys.J. C78 (2018) no.6, 529
- CP tests of Higgs couplings in tth semileptonic events at the LHC D. Azevedo, A. Onofre, F. Filthaut, and R. Gonçalo Phys.Rev. D98 (2018) 033004
- The fate of quarkonia in heavy-ion collisions at LHC energies: a unified description of the sequential suppression patterns Pietro Faccioli, Carlos Lourenço Eur.Phys.J. C78 (2018) 731
- CP in the dark Duarte Azevedo, Pedro M. Ferreira, M. Margarete Muhlleitner, Shruti Patel, Rui Santos, Jonas Wittbrodt J. High Energy Phys. 11 (2018) 091
- Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at root s=13 TeV ATLAS Collaboration Phys. Rev. D 98 (2018) 112010

Thesis / Dissertation

PhD Thesis

- Novel Techniques for High Pressure Noble Gas Radiation Detectors [link](#)
- Demonstração de um dispositivo de imagiologia por raios ortogonais para apoio à radioterapia externa de fotões [[link](#)]NA
- An Emulation Workbench for Position Sensitive Gaseous Scintillation Detectors [[link](#)]NA
- Development of new high-performance Positron Emission Mammography based on new photosensor technology [[link](#)]NA

Master Thesis

- Average lateral distribution function of muons in 10^{17} eV extensive air showers [link](#)
- Measurement of rare top quark decays in ATLAS/LHC [link](#)

- Análise da deterioração das características de um protótipo de CdTe para um Telescópio Espacial de Raios Gama em ambiente de radiação orbital [link](#)
- Effects of Confinement in the Folding of Knotted Proteins [link](#)
- Studying Elements of Genetic Programming for Multiclass Classification [link](#)

Conference Paper

- Control System For ATLAS TileCal HVRemote Boards F. Martins, L. Gurriana, L. Seabra, G. Evans, A. Gomes, A. Maio, C. Rato, J. Sabino, J. Soares Augusto C17-10-08 (2018) THPHA069
- Jets in heavy ion collisions with the ATLAS detector H.Santos ATL-PHYS-PROC-2018-001
- Probing the CP nature of the Higgs coupling in tt events at the LHC Emanuel Gouveia, S. P. Amor dos Santos, M. C. N. Fiolhais, R. Frederix, R. Gonçalo, R. Martins, A. Onofre, C. M. Pease, H. Peixoto, A. Reigoto, R. Santos, J. Silva arXiv:1801.04954
- Optics robustness of the ATLAS Tile Calorimeter R. Pedro ATL-TILECAL-PROC-2018-010
- Hadronic Interactions at Ultra High Energies – tests with the Pierre Auger Observatory Sofia Andringa, for the Pierre Auger Collaboration Proceedings of the 17th conference on Elastic and Diffractive Scattering, EDS, Blois2017, Prague, Czech Republic, June 2017.
- Characterization of irradiated APDs for picosecond time measurements M. Gallinaro et al. J. Instrum. 13 (2018) C01041
- Looking forward: exclusive dilepton production with a leading proton M. Gallinaro (for the CMS and TOTEM collaborations) CMS CR-2018/186
- Heavy quark probes of QCD N. Leonardo PoS(ICHEP2018)216
- Searches for Higgs bosons with dark matter at the Large Hadron Collider M. Gallinaro (for the ATLAS and CMS collaborations) CMS CR-2018/380
- Photon-photon and photon-proton measurements with forward proton taggers in CMS+TOTEM J. Hollar, on behalf of the CMS and TOTEM Collaborations CERN Proceedings, [S.I.], v. 1, p. 1, dec. 2018
- Final COMPASS results on hadrons, pions and kaons multiplicities in SIDIS Marcin Stolarski on behalf of the COMPASS Coll. PoS DIS2017 (2018) 235
- Polarised Drell-Yan results from COMPASS C. Franco on behalf of the COMPASS Coll. arXiv:1804.09516 [hep-ex]
- K⁻ over K⁺ multiplicity ratio for kaons produced in DIS with a large fraction of the virtual-photon energy A.S. Nunes on behalf of the COMPASS Coll. PoS(DIS2018)018
- Reactor Antineutrinos in SNO+ S. Nae on behalf of the SNO+ Collaboration published in Proceedings of student poster session of the VII International Pontecorvo Neutrino Physics School (Prague, Czech Republic, August 20 - September 1, 2017), edited by F. Simkovic, - Dubna: JINR, ISBN 978-5-9530-0484-8
- Optical Calibration of the SNO+ Detector A.S. Inácio on behalf of the SNO+ Collaboration published in Proceedings of student poster session of the VII International Pontecorvo Neutrino Physics School (Prague, Czech Republic, August 20 - September 1, 2017), edited by F. Simkovic, - Dubna: JINR, ISBN 978-5-9530-0484-8
- SNO J. Maneira (on behalf of the SNO Collaboration) Proceedings of the XVII International

Workshop on Neutrino Telescopes. March 2017, Venice, Italy

- Calibration of the SNO+ Detector with a Light Diffusing Source in the Water Phase A. S. Inácio et. al. on behalf of the SNO+ Collaboration Proceedings of the XXVIII International Conference on Neutrino Physics and Astrophysics
- AmBe source calibration in the SNO+ water phase Y. Liu on behalf of the SNO+ Collaboration Proceedings of the XXVIII International Conference on Neutrino Physics and Astrophysics
- From SNO to SNO+ and the search for neutrino masses J. Maneira on behalf of the SNO+ Collaboration Published in Livro de Atas da 20.^a Conferência Nacional de Física e 26.^o Encontro Ibérico para o Ensino da Física, FÍSICA 2016.
- Reactor neutrino oscillations with the SNO+ detector Stefan Nae on behalf of the SNO+ Collaboration Published in Livro de Atas da 20.^a Conferência Nacional de Física e 26.^o Encontro Ibérico para o Ensino da Física, FÍSICA 2016.
- Measuring oscillations with different neutrino sources S. Andringa Published in Livro de Atas da 20.^a Conferência Nacional de Física e 26.^o Encontro Ibérico para o Ensino da Física, FÍSICA 2016.
- OPENCoastS.pt – Serviço de previsão em tempo real a pedido para a circulação na ZEE portuguesa A. Azevedo, A.B. Fortunato, J. Teixeira, J. Rogeiro, A. Oliveira, M. Rodrigues, J. Gomes, M. David e J. Pina (2018) Atas das 5as Jornadas de Engenharia Hidrográfica, I.H. (eds), 105-108.
- Generation of operational forecasts on demand: the OPENCoastS platform A.B. Fortunato, A. Oliveira, J. Rogeiro, J. Teixeira, A. Azevedo, J. Gomes, M. David, J. Pina 17thIMUM Book of Abstracts
- Digital preservation challenges and methodology using Cloud resources - the OPENCoastS case study João Rico, José Barateiro, António Silva, João Rogeiro, Alberto Azevedo, Anabela Oliveira
- Previsão em tempo real a pedido na costa portuguesa - O serviço opencoasts.pt e sua demonstração na circulação da Ria Formosa Teixeira, J., Fortunato, A. B., Rogeiro, J., Azevedo, A., Rodrigues, M., Oliveira, A. (2018) Atas do 14^o Congresso da água -Gestão dos Recursos Hídricos:Novos Desafios, 16 pp.
- High-performance computing applied to numerical models in UBEST. Martins, R., Rogeiro, J., Rodrigues, M., Fortunato, A.B., Oliveira, A., Azevedo, A. (2018) Scientific Challenges & Business Opportunities in Water Management (SciBOWater).
- The SNO+ Experiment, V. Lozza on behalf of the SNO+ Collaboration, Proceedings of the 5th International Solar Neutrino Conference, June 2018, Dresden, Germany
- Using Spark and GraphX to parallelize large-scale simulations of bacterial populations over host contact networks, by A. S. Teixeira, P. T. Monteiro, J. A. Carriço, F. C. Santos and A. P. Francisco. In Algorithms and Architectures for Parallel Processing: 17th International Conference, ICA3PP 2017, 591-600, 2017, DOI: 10.1007/978-3-319-65482-9_44
- Gomes J., Christensen A.L. (2018) Task-Agnostic Evolution of Diverse Repertoires of Swarm Behaviours. In: Dorigo M., Birattari M., Blum C., Christensen A., Reina A., Trianni V. (eds) Swarm Intelligence. ANTS 2018. Lecture Notes in Computer Science, vol 11172. Springer, Cham, doi: 10.1007/978-3-030-00533-7_18
- J. Gomes and A. L. Christensen, "Comparing Approaches for Evolving High-Level Robot Control Based on Behaviour Repertoires," 2018 IEEE Congress on Evolutionary Computation (CEC), Rio de Janeiro, 2018, pp. 1-6. doi: 10.1109/CEC.2018.8477699

Conference Poster

- Average shape of longitudinal shower profiles measured at the Pierre Auger Observatory, Sofia Andringa, UHECR 2018, Ecole Supérieure de Chimie, Paris, France
- Calibration of the SNO+ Detector with a Light Diffusing Source in the Water Phase, A. S. Inácio et. al. on behalf of the SNO+ Collaboration, Neutrino 2018 - XXVIII International Conference on Neutrino Physics and Astrophysics, Heidelberg, Germany
- Development of a Directionality Detector for RADEM, the Radiation Hard Electron Monitor aboard the JUICE Mission, Marco Alves Pinto, RADECS 2018, Gotemburg, Sweden
- Precision Measurement of the Monthly Cosmic Ray Fluxes with the Alpha Magnetic Spectrometer on the ISS, Miguel Orcinha (on behalf of the AMS collaboration), 26th Extended European Cosmic Ray Symposium and 35th Russian Cosmic Ray Conference, Barnaul - Belokurikha - Altai Mountains, Russia
- Recent developments in deep-learning applied to open HEP data, Giles Strong, Advanced Statistics for Physics Discovery, Padova University, Italy
- Search for flavour-changing neutral currents $t\bar{t}$ interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with the ATLAS detector, Ana Peixoto, 11th International Workshop on Top Quark Physics, Bad Neuenahr, Germany
- Search for new interaction at the top quark section, Ana Peixoto, 1st IGFAE/LIP Workshop, Braga, Portugal
- Search for vector-like quarks decaying to a Z boson with the ATLAS experiment, Tiago Vale, 11th International Workshop on Top Quark Physics, Bad Neuenahr, Germany
- Triggering on hadronic signatures in the ATLAS experiment - Developments for 2017 and 2018, Emanuel Gouveia, 23rd International Conference on Computing in High Energy and Nuclear Physics, Sofia - Bulgaria
- Development of a framework for Multi-Messenger Observations with the Auger Observatory, Sofia Andringa, Lorenzo Cazon, Bernardo Dias, Nelson Eiró, XXVIII Encontro Nacional de Astronomia e Astrofísica, Observatório Geofísico e Astronómico da Universidade de Coimbra
- Search for heavy fermions with the ATLAS experiment, Tiago Vale, 4th IDPASC Workshop, Coimbra, Portugal
- Search for $t\bar{t}$ production via Flavour Changing Neutral Currents with the ATLAS Experiment at 13 TeV, Ana Peixoto, 4th IDPASC Workshop, Coimbra, Portugal

Revision #41

Created Thu, Oct 31, 2019 2:27 PM by [João Pina](#)

Updated Thu, Nov 9, 2023 11:50 AM by [João Pina](#)