

# PUBLICACIONES / 2015

---

1. P. Caprile, G. H. Hartmann and E. Doerner. *Development and application of a dose verification tool using a small field model for TomoTherapy.* Zeitschrift für Medizinische Physik; 25(1), 48-57 (2015).
2. G Düring, C Josserand, S Rica. *Self-similar formation of an inverse cascade in vibrating elastic plates.* Physical Review E 91 (5), 052916 (2015).
3. E DeGiuli, G Düring, E Lerner, M Wyart. *Unified theory of inertial granular flows and non-Brownian suspensions.* Physical Review E 91 (6), 062206 (2015).
4. F Veloso, G Muñoz-Cordovez, L Donoso-Tapia, V Valenzuela-Villaseca, F Suzuki-Vidal, G Swadling, J P Chittenden, M Favre and E S Wyndham. *Ablation dynamics in wire array Z-pinch under modifications on global magnetic field topology.* Phys Plasmas 22, 072509 (2015)  
<http://dx.doi.org/10.1063/1.4926581>
5. F Veloso, L Donoso, G Swadling, J Chittenden, G Muñoz, V Valenzuela, F Suzuki-Vidal, M Favre and E Wyndham. *Effects of uneven mass distribution on plasma dynamics in cylindrical wire array Z-pinch.* J Phys: Conf Series 591, 012027 (2015)  
<http://iopscience.iop.org/1742-6596/591/1/012027>
6. N Cabrini, C Pavez, G Avaria, P San Martin, F Veloso, B Zuñiga, A Sepulveda and L Soto. *Wire array experiments in a low impedance and low current generator.* J Physics: Conf Series 591, 012026 (2015).
7. J Moreno, F Veloso, C Pavez, A Tarifeño-Saldivia, D Klir and L Soto. *Neutron energy distribution and temporal correlations with hard x-ray emission from a hundreds of joules plasma focus device.* Plasma Phys Control Fusion 57, 035008 (2015) <http://iopscience.iop.org/0741-3335/57/3/035008>
8. Davi C. Rodrigues, Benjamin Koch, Oliver F. Piattella, Ilya L. Shapiro. *The bending of light within gravity with large scale renormalization group effects.* AIP Conf.Proc. 1647, 57-61, (2015).
9. Benjamin Koch, Paola Rioseco, Carlos Contreras. *Scale Setting for Self-consistent Backgrounds.* Phys.Rev. D91 no.2, 025009, (2015).
10. Benjamin Koch, Ignacio Reyes. *Differentiable-Path Integrals in Quantum Mechanics.* Int.J.Gemot.Meth.Mod.Phys. 12, no.09, 1550100, (2015).

11. Depassier, M. C. *Speed of field driven domain walls in nanowires with large transverse magnetic anisotropy*. EPL 111, 27005 (2015).
12. Mauricio Morel, Edgar Mosquera, Donovan E. Diaz-Droguett, Nicolás Carvajal, Martin Roble, Vania Rojas, Rodrigo Espinoza-González. *Mineral magnetite as precursor in the synthesis of multi-walled carbon nanotubes and their capabilities of hydrogen adsorption*. International Journal of Hydrogen Energy, Volume 40, Issue 45, pp 15540–15548 (2015).
13. L. Padilla-Campos, D.E. Diaz-Droguett, R. Lavín, S. Fuentes. *Synthesis and structural analysis of Co-doped BaTiO<sub>3</sub>*. Journal of Molecular Structure, Volume 1099, pp 502–509 (2015).
14. M. Cisternas, F. Mellero, M. Favre, H. Bhuyan, and E. Wyndham. *TiN Coatings on Titanium Substrates Using Plasma Assisted Ion Implantation*. Journal of Physics: Conference Series 591(1) 012043, (2015).
15. Alejandro Ayala, M. Loewe, and R. Zamora. *Inverse magnetic catalysis in the linear sigma model with quarks*. Physical Review D 91, 016002, (2015).
16. D. Valenzuela, S. Hernández-Ortiz, M. Loewe, and A. Raya. *Graphene transparency in weak magnetic fields*. Journal of Physics A: Mathematical and Theoretical A 48, 065402, (2015).
17. C. A. Dominguez, M. Loewe, and Y. Zhang *Scalar Form Factor of the pion in the Kroll-Lee-Zumino Field Theory*. Advances in High Energy Physics 2015, 803232, (2015).
18. Alejandro. Ayala, J. J. Cobos-Martínez, M. Loewe, M, E. Tejeda-Yeomans, and R. Zamora. *Finite temperature quark-gluon vertex with a magnetic field in the hard thermal loop approximation*. Physical Review D 91, 016007, (2015).
19. M. Loewe, F. Marquez, C. Villavicencio, and R. Zamora. *Weak magnetic field effects on chiral critical temperature in a nonlocal Nambu-Jona-Lasinio model*. International Journal of Modern Physics A 21, 1550123, (2015).
20. Alejandro Ayala, C. A. Dominguez, L. A. Hernandez, M. Loewe, J. C. Rojas, and C. Villavicencio. *Quark deconfinement and gluon condensate in a weak magnetic field from QCD sum rules*. Physical Review D 92, 016006, (2015).
21. Alejandro Ayala, C. A. Dominguez, L. A. Hernandez, M. Loewe, and R.Zamora. *Magnetized effective QCD phase diagram*. Physical Review D 92, 096011, (2015).
22. Mendes J. B. S., Santos O. A., Meireles L. M., Lacerda R. G, Machado F. L. A., Rodríguez-Suárez R. L., Azevedo A., Rezende S. M. *Spin-Current to Charge-Current conversion and*

*magnetoresistance in a hybrid structure of graphene and yttrium iron garnet structure.* Physical Review Letters ,115, 226601 (2015).

23. Azevedo A., Cunha R. O., Estrada F., Santos O. A., Mendes J. B. S., Vilela-Leão L. H, Rodríguez-Suárez R. L., Rezende S. M. *Electrical detection of ferromagnetic resonance in single layers of permalloy: Evidence of magnonic charge pumping.* Physical Review B, 92, 024402 (2015).
24. Cunha R. O., Holanda J., Vilela-Leão L. H., Azevedo A., Rodríguez-Suárez R. L., Rezende S. M. *Nonlinear dynamics of three-magnon process driven by ferromagnetic resonance in yttrium iron garnet.* Applied Physics Letter, 19, 192403 (2015).
25. Fabai Wu, Bas G. C. van Schie, Juan E. Keymer, Cees Dekker. *Symmetry and scale orient Min protein patterns in shaped bacterial sculptures.* Nature Nanotechnology 10, 719–726 (2015).
26. Felix J H Hol, Bert Hubert, Cees Dekker and Juan E Keymer. *Density-dependent adaptive resistance allows swimming bacteria to colonize an antibiotic gradient.* The ISME Journal (2016) 10, 30–38, (2015).
27. R. D. Benguria, R. L. Frank, and E. H. Lieb. *Ground state energy of large polaron systems.* J. Math. Phys. 56, 021901, (2015).
28. R. D. Benguria and H. Van Den Bosch. *A criterion for the existence of zero modes for the Pauli operator with fastly decaying fields.* J. Math. Phys. 56, 052104, (2015).
29. R. D. Benguria. *Density Functional Theory* in Encyclopedia of Applied and Computational Mathematics, Editor-in-chief: Engquist, Björn, pp. 345–351, Springer–Verlag, Berlin (2015) ISBN 978-3-540-70528-4.
30. I. Espinoza, P. Peschke and C. P. Karger. *A voxel-based multiscale model to simulate the radiation response of hypoxic tumors.* Med. Phys. 42, 90 (2015).
31. E. A. Velásquez, J. Mazo-Zuluaga, P. Vargas, and J. Mejía-López. *Bridging the gap between discrete and continuous magnetic models in the scaling approach.* Phys. Rev. B 91, 134418, (2015).
32. Romero-Expósito M, Sánchez-Nieto B, Terrón JA, Lopes MC, Ferreira BC, Grishchuk D, Sandín C, Moral-Sánchez S, Melchor M, Domingo C, Gómez F, Sánchez-Doblado F. *Commissioning the neutron production of a Linac: development of a simple tool for second cancer risk estimation.* Med Phys., 42(1):276-81. (2015).
33. B Sánchez-Nieto, R El-far, L Irazola, M Romero-Expósito, J I Lagares, J C Mateo, J A Terrón and F Sánchez Doblado. *Analytical model for photon peripheral dose estimation in radiotherapy treatments.* Biomedical Physics & Engineering Express, Volume 1, Number 4, (2015).

34. Rodrigo Segura, Jaime Pizarro, Karina Díaz, Alan Placencio, Fernando Godoy, Eduardo Pino, Francisco Recio. *Development of electrochemical sensors for the determination of selenium using gold nanoparticles modified electrodes*. Sensors and Actuators B: Chemical, Volume 220, Pages 263–269, (2015).
35. Jorge Alfaro, Pablo González, and Ricardo Ávila. *Electroweak standard model with very special relativity*. Phys. Rev. D 91, 105007, (2015).
36. Jorge Alfaro and Pablo González. Cosmological acceleration in delta-gravity. AIP Conf. Proc. 1647, 80 (2015).
37. María Pía Valdivia, Edmund S. Wyndham, Mario Favre. *Hollow Cathode Electron Beam Formation and Effects on X-Ray Emission in Capillary Discharges*. IEEE Transactions on Plasma Science, Volume:43 Issue:8, (2015).
38. J. C. Valenzuela, E. S. Wyndham and M. Favre. *Time-resolved study of the extreme-ultraviolet emission and plasma dynamics of a sub-Joule, fast capillary discharge*. Phys. Plasmas 22, 083501 (2015).
39. P. London, R. Fischer, I. Alvizu, J. R. Maze, and D. Gershoni, *Local probing of nuclear bath polarization with a single electronic spin* Phys. Rev. B 92, 241117(R) (2015).
40. Francisco J. Peña and Enrique Muñoz. *Magnetostrain-driven quantum engine on a graphene flake*. Phys. Rev. E 91, 052152, (2015).
41. Claudio Arenas, Ricardo Henriquez, Luis Moraga, Enrique Muñoz, Raul C. Munoz. *The effect of electron scattering from disordered grain boundaries on the resistivity of metallic nanostructures*. Applied Surface Science, Volume 329, Pages 184–196, (2015).
42. Jaroslav Řeháček, Yong Siah Teo, Zdeněk Hradil & Sascha Wallentowitz. *Surmounting intrinsic quantum-measurement uncertainties in Gaussian-state tomography with quadrature squeezing*. Scientific Reports 5, Article number: 12289, (2015).
43. J L Romero, A B Klimov and S Wallentowitz. *Semiclassical dynamics of a rigid rotor:  $SO(3)$  covariant approach*. New Journal of Physics, Volume 17, (April 2015).
44. V.D. Samith, E. Ramos-Moore. *Study of glass transition in functionalized poly(itaconate)s by differential scanning calorimetry, Raman spectroscopy and thermogravimetric analysis*. Journal of Non-Crystalline Solids, Volume 408, Pages 37–42, (2015).

45. F. Munoz, A.H. Romero, J. Mejía-López, Igor V. Roshchin, R.I. González, M. Kiwi. *Surface states of FeF<sub>2</sub> (110) and its uncompensated magnetization.* Journal of Magnetism and Magnetic Materials, Volume 393, Pages 226–232, (2015).
46. J. Mejía-López, E. A. Velásquez, S. López-Moreno, J. Mazo-Zuluaga. *Complex magnetic states in Ni/Fe bi-segmented nanorods.* Phys. Status Solidi RRL 9, 740 (2015).
47. Raul Coto, Miguel Orszag, and Vitalie Eremeev. *Self-trapping triggered by losses in cavity QED.* Phys. Rev. A 91, 043841, (2015).
48. Miguel Orszag, Nellu Ciobanu, Raul Coto & Vitalie Eremeev. *Quantum correlations in cavity QED networks.* Journal of Modern Optics, Volume 62, Issue 8, pages 593-607, (2015).
49. Toyanath Joshi, Tess R. Senty, Robbyn Trappen, Jinling Zhou, Song Chen, Piero Ferrari, Pavel Borisov, Xueyan Song, Mikel B. Holcomb, Alan D. Bristow, Alejandro L. Cabrera and David Lederman. *Structural and magnetic properties of epitaxial delafossite CuFeO<sub>2</sub> thin films grown by pulsed laser deposition.* J. Appl. Phys. 117, 013908, (2015).
50. M. J. Inestrosa-Izurieta, E. Ramos-Moore, and L. Soto. *Morphological and structural effects on tungsten targets produced by fusion plasma pulses from a table top plasma focus.* Nuclear Fusion, vol. 55, no. 93011, pp. 1–8, (2015).
51. Alberto Faraggi, James T. Liu, Leopoldo A. Pando Zayas, Guojun Zhang. *One-loop structure of higher rank Wilson loops in AdS/CFT.* Physics Letters B, Volume 740, Pages 218–221, (2015).
52. Jean Bricmont, Hanne Van Den Bosch. *Intermediate Model Between Majority Voter PCA and Its Mean Field Model.* Journal of Statistical Physics, Volume 158, Issue 5, pp 1090-1099, (2015).
53. J. Mehringer and E. Stockmeyer. *Ballistic dynamics of Dirac particles in electro-magnetic fields.* J. of London Math. Soc. 92 (2), 465–482 (2015).
54. A. Gago-Arias, P. Argüeso, P. Aguiar, D.M. González-Castaño, F. Gómez, J. Pardo-Montero. *Characterization of tetramethylsilane for liquid-filled ionization dosimeters: Ion mobilities, free-ion yield and general recombination.* Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 785, Pages 170–174, (Junio, 2015).
55. Raveau M, Feuillade C. *Sound extinction by fish schools: forward scattering theory and data analysis.* J Acoust Soc Am.137(2):539-55, (2015).

56. S. López-Moreno, J. Mejía-López, Francisco Muñoz, A. Calles, J.L. Morán-López. *Energetics and the magnetic state of Mn<sub>2</sub> adsorbed on Au(111): Dimer bond distance dependence*. Journal of Magnetism and Magnetic Materials Volume 403, 1 April 2016, Pages 172–180. \*Available online 2 December 2015.
57. G Muñoz, P Homm, F Guzmán, H M Ruiz, L S Caballero, M Favre, M Flores and S A Hevia. *Pulsed Laser Deposition of Carbon Nanodots*. Journal of Physics: Conference Series 591, 012047 (2015).
58. E. Suarez Morell, P. Vargas, P. Häberle, S. A. Hevia, L. Chico. *Edge states of moiré structures in graphite*. Physical Review B 91, 035441 (2015).
59. The Fermi-LAT Collaboration. *Updated search for spectral lines from Galactic dark matter interactions with pass 8 data from the Fermi Large Area Telescope*. Phys. Rev. D. 91, 122002 (2015).
60. The Fermi-LAT Collaboration. *Strong optimized conservative Fermi-LAT constraints on dark matter models from the inclusive photon spectrum*. Phys. Rev. D 91, 083539 (2015).
61. Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai) et al.). *New Measurement of Antineutrino Oscillation with the Full Detector Configuration at Daya Bay*. Phys.Rev.Lett. 115, no.11, 111802, (2015).
62. Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai & Beijing, Inst. High Energy Phys.) et al.). *The muon system of the Daya Bay Reactor antineutrino experiment*. Nucl.Instrum.Meth. A773, 8-20, (2015).
63. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ J/ψ and ϕ (2S) ϕ (2S) in pp collisions at s√=7s=7 and 88 TeV with the ATLAS detector*. CERN-PH-EP-2015-292, (2015).
64. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of D\*±D\*±, D±D± and D±sDs± meson production cross sections in pp collisions at s√=7s=7 TeV with the ATLAS detector*. CERN-PH-EP-2015-288, (2015).
65. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the transverse momentum and φ\*ηφη\* distributions of Drell-Yan lepton pairs in proton-proton collisions at s√=8s=8 TeV with the ATLAS detector*. CERN-PH-EP-2015-275, (2015).
66. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for the Standard Model Higgs Boson Produced in Association with a Vector Boson and Decaying into a Tau Pair in pp Collisions at s√=8s=8 TeV with the ATLAS Detector*. CERN-PH-2015-226, CERN-PH-EP-2015-226, (2015).

67. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurements of top-quark pair differential cross-sections in the lepton+jets channel in  $p\bar{p}$  collisions at  $s\sqrt{s}=8$  TeV using the ATLAS detector*. CERN-PH-EP-2015-239, (2015).
68. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Performance of pile-up mitigation techniques for jets in  $p\bar{p}$  collisions at  $s\sqrt{s}=8$  TeV using the ATLAS detector*. CERN-PH-EP-2015-206, (2015).
69. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of four-jet differential cross sections in  $s\sqrt{s}=8$  TeV proton-proton collisions using the ATLAS detector*. Journal of High Energy Physics, 2015:105, (2015).
70. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for flavour-changing neutral current top quark decays  $t \rightarrow Hq$  in  $p\bar{p}$  collisions at  $s\sqrt{s}=8$  TeV with the ATLAS detector*. Journal of High Energy Physics, 1512, 2015:61, (Diciembre, 2015).
71. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the  $t\bar{t} \rightarrow Wt\bar{t}W$  and  $t\bar{t} \rightarrow Zt\bar{t}Z$  production cross sections in  $p\bar{p}$  collisions at  $s\sqrt{s}=8$  TeV with the ATLAS detector*. Journal of High Energy Physics, 1511, 2015:172, (Noviembre, 2015).
72. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Searches for Higgs boson pair production in the  $hh \rightarrow bb\tau\tau$ ,  $\gamma\gamma WW^*$ ,  $\gamma\gamma bb$ ,  $bbbb$  channels with the ATLAS detector*. Phys. Rev. D 92, 092004, (Noviembre, 2015).
73. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for pair production of a new heavy quark that decays into a W boson and a light quark in  $p\bar{p}$  collisions at  $s\sqrt{s}=8$  TeV with the ATLAS detector*. Phys. Rev. D 92, 112007, (Diciembre, 2015).
74. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector*. Journal of High Energy Physics, 1511, 2015:206, (Noviembre, 2015).
75. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 — interpreted in the phenomenological MSSM*. Journal of High Energy Physics, 1510, 2015:134, (Octubre, 2015).
76. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for lepton-flavour-violating  $H \rightarrow \mu^+ \tau^-$  decays of the Higgs boson with the ATLAS detector*. Journal of High Energy Physics, 1511, 2015:211, (Noviembre, 2015).

77. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of transverse energy-energy correlations in multi-jet events in  $pp$  collisions at  $\sqrt{s} = 7 \text{ TeV}$  with the ATLAS detector and determination of the strong coupling constant  $\alpha_s(mZ)$* . Physics Letters B Volume 750, Pages 427–447, (Noviembre, 2015).
78. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Determination of the Ratio of  $b$ -Quark Fragmentation Fractions  $f_b/f_d$  in  $pp$  Collisions at  $\sqrt{s}=7 \text{ TeV}$  with the ATLAS Detector*. Phys. Rev. Lett. 115, 262001, (Diciembre, 2015).
79. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the branching ratio  $\Gamma(\Lambda_b^0 \rightarrow \psi(2S)\Lambda^0)/\Gamma(\Lambda_b^0 \rightarrow J/\psi\Lambda^0)$  with the ATLAS detector*. Physics Letters B, Volume 751, Pages 63–80, (Diciembre, 2015).
80. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.).  *$Z$  boson production in  $p+Pb$  collisions at  $s_{NN}=\sqrt{s}=5.02 \text{ TeV}$  measured with the ATLAS detector*. Phys. Rev. C 92, 044915, (Octubre, 2015).
81. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Summary of the searches for squarks and gluinos using  $s\sqrt{s}=8 \text{ TeV}$   $pp$  collisions with the ATLAS experiment at the LHC*. Journal of High Energy Physics, 1510, 2015:54, (Octubre, 2015).
82. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for photonic signatures of gauge-mediated supersymmetry in  $8 \text{ TeV}$   $pp$  collisions with the ATLAS detector*. Phys. Rev. D 92, 072001, (Octubre, 2015).
83. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider*. The European Physical Journal C, 75:510, (Octubre, 2015).
84. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of exclusive  $\gamma\gamma \rightarrow \ell+\ell-$  production in proton-proton collisions at  $\sqrt{s}=7 \text{ TeV}$  with the ATLAS detector*. Physics Letters B, Volume 749, Pages 242–261, (Octubre, 2015).
85. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Study of  $(W/Z)H$  production and Higgs boson couplings using  $H \rightarrow WW^*$  decays with the ATLAS detector*. Journal of High Energy Physics, 2015:137, (Agosto, 2015).
86. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for the associated production of the Higgs boson with a top quark pair in multilepton final states with the ATLAS detector*. Physics Letters B, Volume 749, Pages 519–541, (Octubre, 2015).

87. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector*. The European Physical Journal C, 75:476, (Octubre, 2015).
88. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of colour flow with the jet pull angle in  $t\bar{t}$  events using the ATLAS detector at  $\sqrt{s} = 8 \text{ TeV}$* . Physics Letters B Volume 750, Pages 475–493, (Noviembre, 2015).
89. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Modelling  $Z \rightarrow \tau^+ \tau^-$  processes in ATLAS with  $\tau$ -embedded  $Z \rightarrow \mu^+ \mu^-$  data*. Journal of Instrumentation, Volume 10, P09018, (Septiembre, 2015).
90. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for metastable heavy charged particles with large ionisation energy loss in  $p\bar{p}$  collisions at  $s\sqrt{=8s=8 \text{ TeV}}$  using the ATLAS experiment*. The European Physical Journal C, 75:407, (Septiembre, 2015).
91. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector*. Phys. Rev. D 92, 072005, (Octubre, 2015).
92. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for type-III Seesaw heavy leptons in  $p\bar{p}$  collisions at  $s\sqrt{=8s=8 \text{ TeV}}$  with the ATLAS Detector*. Phys. Rev. D 92, 032001, (Agosto, 2015).
93. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for heavy lepton resonances decaying to a ZZ boson and a lepton in  $p\bar{p}$  collisions at  $s\sqrt{=8s=8 \text{ TeV}}$  with the ATLAS detector*. Journal of High Energy Physics, 2015:108, (Septiembre, 2015).
94. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in  $p\bar{p}$  Collisions at  $s\sqrt{=8s=8 \text{ TeV}}$  with the ATLAS Detector*. Phys. Rev. Lett. 115, 131801, (Septiembre, 2015).
95. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at  $s\sqrt{=8s=8 \text{ TeV}}$  with the ATLAS detector*. Journal of High Energy Physics, 2015:55, (Diciembre, 2015).
96. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for Higgs boson pair production in the  $bbbb$  final state from  $p\bar{p}$  collisions at  $s\sqrt{=8s=8 \text{ TeV}}$  with the ATLAS detector*. The European Physical Journal C, 75:412, (Septiembre, 2015).

97. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for new light gauge bosons in Higgs boson decays to four-lepton final states in  $p\bar{p}$  collisions at  $s\sqrt{s}=8$  TeV with the ATLAS detector at the LHC*. Phys. Rev. D 92, 092001, (Noviembre, 2015).
98. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *A search for  $t\bar{t}$  resonances using lepton-plus-jets events in proton-proton collisions at  $s\sqrt{s}=8$  TeV with the ATLAS detector*. Journal of High Energy Physics, 2015:148, (Agosto, 2015).
99. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in  $p\bar{p}$  collisions at  $s\sqrt{s}=8$  TeV with the ATLAS detector*. Journal of High Energy Physics, 2015:105, (Agosto, 2015).
100. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the  $H \rightarrow \gamma\gamma$  and  $H \rightarrow ZZ^* \rightarrow 4\ell$  Decay Channels at  $s\sqrt{s}=8$  TeV with the ATLAS Detector*. Phys. Rev. Lett. 115, 091801, (Agosto, 2015).
101. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for heavy long-lived multi-charged particles in  $p\bar{p}$  collisions at  $s\sqrt{s}=8$  TeV using the ATLAS detector*. The European Physical Journal C, 75:362, (Agosto, 2015).
102. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the correlation between flow harmonics of different order in lead-lead collisions at  $s_{NN}=\sqrt{s_{NN}}=2.76$  TeV with the ATLAS detector*. Phys. Rev. C 92, 034903, (Septiembre, 2015).
103. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Combined Measurement of the Higgs Boson Mass in  $p\bar{p}$  Collisions at  $s\sqrt{s}=7$  and 8 TeV with the ATLAS and CMS Experiments*. Phys. Rev. Lett. 114, 191803, (Mayo, 2015).
104. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for a Heavy Neutral Particle Decaying to  $e\mu$ ,  $e\tau$ , or  $\mu\tau$  in  $p\bar{p}$  Collisions at  $s\sqrt{s}=8$  TeV with the ATLAS Detector*. Phys. Rev. Lett. 115, 031801, (Julio, 2015).
105. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector*. Journal of High Energy Physics, 2015:117, (Abril, 2015).
106. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Evidence of  $W$  gamma gamma Production in  $p\bar{p}$  Collisions at root  $s=8$  TeV and Limits on Anomalous Quartic Gauge Couplings with the ATLAS Detector*. Phys. Rev. Lett. 115, 031802, (Julio, 2015).

107. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at root s=8 TeV*. The European Physical Journal C, 75:303, (Julio, 2015).
108. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *A search for high-mass resonances decaying to tau(+)tau(-) in pp collisions at root s=8 TeV with the ATLAS detector*. Journal of High Energy Physics, 2015:157, (Julio, 2015).
109. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Jet energy measurement and its systematic uncertainty in proton-proton collisions at root s=7 TeV with the ATLAS detector*. The European Physical Journal C, 75:17, (Enero, 2015).
110. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in pp Collisions at root s=8 TeV Using the ATLAS Detector*. Phys. Rev. Lett. 114, 142001, (Abril 2015).
111. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the inclusive jet cross-section in proton-proton collisions at root s=7 TeV using 4.5 fb(-1) of data with the ATLAS detector*. Journal of High Energy Physics, 2015:153, (Febrero, 2015).
112. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the production and lepton charge asymmetry of W bosons in Pb plus Pb collisions at root s(NN)=2.76 TeV with the ATLAS detector*. The European Physical Journal C, 75:23, (Enero, 2015).
113. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the t(t)over-bar production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions with the ATLAS detector*. Journal of High Energy Physics, 2015:20, (Enero, 2015).
114. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the transverse polarization of Lambda and (Lambda)over-bar hyperons produced in proton-proton collisions at root s=7 TeV using the ATLAS detector*. Phys. Rev. D 91, 032004, (Febrero, 2015).
115. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the WW plus WZ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at root s=7 TeV*. Journal of High Energy Physics, 2015:49, (Enero, 2015).
116. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector*. Phys. Rev. D 91, 012006, (Enero, 2015).

117. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurements of the Nuclear Modification Factor for Jets in Pb plus Pb Collisions at root SNN=2.76 TeV with the ATLAS Detector*. Phys. Rev. Lett. 114, 072302, (Febrero, 2015).
118. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurements of the W production cross sections in association with jets with the ATLAS detector*. The European Physical Journal C, 75:82, (Febrero, 2015).
119. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Observation and measurement of Higgs boson decays to WW\* with the ATLAS detector*. Phys. Rev. D 92, 012006, (Julio, 2015).
120. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Performance of the ATLAS muon trigger in pp collisions at root s=8 TeV*. The European Physical Journal C, (Marzo, 2015). 75:120
121. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for a CP-odd Higgs boson decaying to Zh in pp collisions at root s=8 TeV with the ATLAS detector*. Physics Letters B, Volume 744, Pages 163–183, (Mayo, 2015).
122. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with root s=8 TeV pp collisions using the ATLAS detector*. Journal of High Energy Physics, 2015:41, (Marzo 2015).
123. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for charged Higgs bosons decaying via H-+/- -> tau(+/-)nu in fully hadronic final states using pp collision data at root s=8 TeV with the ATLAS detector*. Journal of High Energy Physics, 2015:88, (Marzo, 2015).
124. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector*. The European Physical Journal C, 75:92, (Febrero, 2015).
125. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for H -> gamma gamma produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 8 TeV with the ATLAS detector*. Physics Letters B, Volume 740, Pages 222–242, (Enero, 2015).
126. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at root s=8 TeV*. Journal of High Energy Physics, 2015:162, (Julio, 2015).
127. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for Higgs and Z Boson Decays to J/psi gamma and Upsilon(nS)gamma with the ATLAS Detector*. Phys. Rev. Lett. 114, 121801, (Marzo, 2015).

128. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for Higgs Boson Pair Production in the gamma gamma b(b)over-bar Final State Using pp Collision Data at root s=8 TeV from the ATLAS Detector*. Phys. Rev. Lett. 114, 081802, (Febrero, 2015).
129. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at root s=8 TeV with the ATLAS detector*. The European Physical Journal C, 75:79, (Febrero, 2015).
130. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for long-lived, weakly interacting particles that decay to displaced hadronic jets in proton-proton collisions at root s=8 TeV with the ATLAS detector*. Phys. Rev. D 92, 012010, (Julio, 2015).
131. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at root s=8 TeV Measured with the ATLAS Detector*. Phys. Rev. Lett. 114, 221802, (Junio, 2015).
132. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at root s = 8 TeV with the ATLAS detector*. Phys. Rev. D 91, 012008, (Enero, 2015).
133. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for new phenomena in the dijet mass distribution using pp collision data at root s=8 TeV with the ATLAS detector*. Phys. Rev. D 91, 052007, (Marzo, 2015).
134. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for pair-produced long-lived neutral particles decaying to jets in the ATLAS hadronic calorimeter in pp collisions at root s=8 TeV*. Physics Letters B, Volume 743, Pages 15–34, (Abril, 2015).
135. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for resonant diboson production in the llq(q)over-bar final state in pp collisions at root s=8 TeV with the ATLAS detector*. The European Physical Journal C, 75:69, (Febrero, 2015).
136. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for Scalar Charm Quark Pair Production in pp Collisions at root s=8 TeV with the ATLAS Detector*. Phys. Rev. Lett. 114, 161801, (Abril, 2015).
137. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for s-channel single top-quark production in proton-proton collisions at root s=8 TeV with the ATLAS detector*. Physics Letters B, Volume 740, Pages 118–136, (Enero, 2015).
138. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at root s=8 TeV with the ATLAS detector*. Journal of High Energy Physics, 2015:116, (Abril, 2015).

139. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in root s=8 TeV pp collisions with the ATLAS detector*. The European Physical Journal C, 75:318, (Julio, 2015).
140. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for the b(b)over-bar decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector*. Journal of High Energy Physics, 2015:69, (Enero, 2015).
141. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for the Standard Model Higgs boson produced in association with top quarks and decaying into in collisions at with the ATLAS detector*. The European Physical Journal C, 75:349, (Julio, 2015).
142. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for the X-b and other hidden-beauty states in the pi(+)pi(-)gamma(1S) channel at ATLAS*. Physics Letters B, Volume 740, Pages 199–217, (Enero, 2015).
143. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at root s=8 TeV*. Journal of High Energy Physics, 2015:68, (Enero, 2015).
144. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Simultaneous measurements of the t(t)over-bar, W+W-, and Z/gamma\* -> tau tau production cross-sections in pp collisions at root s=7 TeV with the ATLAS detector*. Phys. Rev. D 91, 052005, (Marzo, 2015).
145. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for high-mass diphoton resonances in pp collisions at s=sqrt(=8 TeV with the ATLAS detector*. Phys. Rev. D 92, 032004, (Agosto, 2015).
146. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in pp collisions at s=sqrt(= 8 TeV with the ATLAS detector*. Phys. Rev. D 92, 072004, (Octubre, 2015).
147. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Analysis of events with b-jets and a pair of leptons of the same charge in pp collisions at s=sqrt(=8 TeV with the ATLAS detector*. Journal of High Energy Physics, 2015:150, (October, 2015).
148. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of charged-particle spectra in Pb+Pb collisions at sNN=sqrt(=2.76 TeV with the ATLAS detector at the LHC*. Journal of High Energy Physics, 2015:50, (Septiembre, 2015).

149. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson in  $p\bar{p}$  collisions at  $s\sqrt{s} = 8$  TeV with the ATLAS detector.* The European Physical Journal C, 75:337, (Julio, 2015).
150. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the top pair production cross-section in 8 TeV proton-proton collisions using kinematic information in the lepton+jets final state with ATLAS.* Phys. Rev. D 91, 112013, (Junio, 2015).
151. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at  $s\sqrt{s}=8$  TeV.* Journal of High Energy Physics, 2015:32, (Julio, 2015).
152. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for a new resonance decaying to a W or Z boson and a Higgs boson in the  $\ell\ell/\ell\nu/vv+bb^-$  final states with the ATLAS Detector.* The European Physical Journal C, 75:263, (Junio, 2015).
153. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the top quark mass in the  $t\bar{t}$  to lepton+jets and  $t\bar{t}$  to dilepton channels using  $\sqrt{s}=7$  TeV ATLAS data.* Eur. Phys. J. C 75, 330 (2015).
154. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for vector-like B quarks in events with one isolated lepton, missing transverse momentum and jets at  $s\sqrt{s} = 8$  TeV with the ATLAS detector.* Phys. Rev. D 91, 112011, (Junio, 2015).
155. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for production of WW/WZ resonances decaying to a lepton, neutrino and jets in  $p\bar{p}$  collisions at  $s\sqrt{s} = 8$  TeV with the ATLAS detector.* The European Physical Journal C, 75:209, (Mayo, 2015).
156. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for a Charged Higgs Boson Produced in the Vector-boson Fusion Mode with Decay  $H^\pm \rightarrow W^\pm Z$  using  $p\bar{p}$  Collisions at  $s\sqrt{s}=8$  TeV with the ATLAS Experiment.* Phys. Rev. Lett. 114, 231801, (Junio, 2015).
157. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the forward-backward asymmetry of electron and muon pair-production in  $p\bar{p}$  collisions at  $s\sqrt{s} = 7$  TeV with the ATLAS detector.* Journal of High Energy Physics, 2015:49, (Septiembre, 2015).
158. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Determination of spin and parity of the Higgs boson in the  $WW^*$  to  $e\bar{\nu}\mu\bar{\nu}$  decay channel with the ATLAS detector.* Eur. Phys. J. C 75, 231 (Mayo, 2015).

159. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Determination of the off shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector*. Eur. Phys. J. C 75, 335 (2015).
160. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Two-particle Bose-Einstein correlations in  $p\bar{p}$  collisions at  $s\sqrt{s} = 0.9$  and 7 TeV measured with the ATLAS detector*. The European Physical Journal C, 75:466, (Octubre, 2015).
161. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using  $p\bar{p}$  collisions at  $\sqrt{s}=7$  TeV in the ATLAS detector*. Journal of High Energy Physics, 2015:100, (Junio, 2015).
162. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for massive supersymmetric particles decaying to many jets using the ATLAS detector in  $p\bar{p}$  collisions at  $\sqrt{s}=8$  TeV*. Phys. Rev. D 91, 112016, (Junio, 2015).
163. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for new phenomena in final states with an energetic jet and large missing transverse momentum in  $p\bar{p}$  collisions at  $\sqrt{s}=8$  TeV with the ATLAS detector*. The European Physical Journal C, 75:299, (Julio, 2015).
164. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Observation of top-quark pair production in association with a photon and measurement of the  $t\bar{t}$  gamma production cross section in  $p\bar{p}$  collisions at  $\sqrt{s}=7$  TeV using the ATLAS detector*. Phys. Rev. D 91, 072007 (Abril, 2015).
165. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the charge asymmetry in dileptonic decays of top quark pairs in  $p\bar{p}$  collisions at  $\sqrt{s}=7$  TeV using the ATLAS detector*. Journal of High Energy Physics, 2015:61, (Mayo, 2015).
166. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in  $\sqrt{s} = 8$  TeV  $p\bar{p}$  collisions with the ATLAS detector*. The European Physical Journal C, 75:208, (Mayo, 2015).
167. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Observation and measurements of the production of prompt and non-prompt  $J/\psi$  mesons in association with a Z boson in  $p\bar{p}$  collisions at  $\sqrt{s}=8$  TeV with the ATLAS detector*. The European Physical Journal C, 75:229, (Mayo, 2015).
168. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Centrality and rapidity dependence of inclusive jet production in  $\sqrt{s_{NN}}=5.02$  TeV proton-lead collisions with the ATLAS detector*. Physics Letters B, Volume 748, Pages 392–413, (Septiembre, 2015).
169. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with  $\sqrt{s}=8$  TeV  $p\bar{p}$  collisions using the ATLAS detector*. Journal of High Energy Physics, 2015:41, (Marzo, 2015).

170. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for new phenomena in events with three or more charged leptons in  $p\bar{p}$  collisions at  $\sqrt{s}=8$  TeV with the ATLAS detector*. Journal of High Energy Physics, 2015:138, (Agosto, 2015).
171. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of three-jet production cross-sections in  $p\bar{p}$  collisions at 7 TeV centre-of-mass energy using the ATLAS detector*. The European Physical Journal C, 75:228, (Mayo, 2015).
172. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for  $W'$  to  $t\bar{b}$  in the lepton plus jets final state in proton-proton collisions at a centre-of-mass energy of  $\sqrt{s} = 8$  TeV with the ATLAS detector*. Physics Letters B, Volume 743, Pages 235–255, (Abril, 2015).
173. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at  $\sqrt{s}=7$  TeV*. The European Physical Journal C, 75:158, (Abril, 2015).
174. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for  $W'$  to  $t\bar{b}$  to  $q\bar{q}bb$  decays in  $p\bar{p}$  Collisions at  $\sqrt{s} = 8$  TeV with the ATLAS Detector*. The European Physical Journal C, 75:165, (Abril, 2015).
175. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of the production of neighbouring jets in lead-lead collisions at  $\sqrt{s_{NN}}=2.76$  TeV with the ATLAS detector*. Phys. Lett. B 751, 376 (2015).
176. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Measurement of differential  $J/\Psi$  production cross-sections and forward-backward ratio in  $p+Pb$  collisions with the ATLAS detector*. Phys. Rev. C 92, 034904 (2015).
177. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Search for Higgs bosons decaying to  $a\bar{a}$  in the  $\mu\mu\tau\tau$  final state in  $p\bar{p}$  collisions at  $\sqrt{s} = 8$  TeV with the ATLAS experiment*. Phys. Rev. D 92, 052002 (2015).
178. ATLAS Collaboration (Georges Aad (Marseille, CPPM) et al.). *Determination of the top-quark pole mass using  $t\bar{t} + 1$ -jet events collected with the ATLAS experiment in 7 TeV  $p\bar{p}$  collisions*. Journal of High Energy Physics, 2015:121, (Octubre, 2015).