

PUBLICACIONES / 2014

1. Viktor Ivady, Tamas Simon, Jeronimo R. Maze, I. A. Abrikosov, and Adam Gali. Pressure and temperature dependence of the zero-field splitting in the ground state of NV centers in diamond: Afirst-principles study. *Physical Review B*, 90(23), DEC 19 2014.
2. Rafael I. Gonzalez, Ricardo Ramirez, Jose Rogan, Juan Alejandro Val- divia, Francisco Munoz, Felipe Valencia, Max Ramirez, and Miguel Ki- wi. Model for Self-Rolling of an Aluminosilicate Sheet into a Single- Walled Imogolite Nanotube. *Journal Of Physical Chemistry C*, 118(48):28227–28233, DEC 4 2014.
3. Paola Arias and Fidel A. Schaposnik. Vortex solutions of an Abelian Higgs model with visible and hidden sectors. *Journal Of High Energy Physics*, (12), DEC 2 2014.
4. Leopoldo Soto, Cristian Pavez, Jose Moreno, Maria Jose Inestrosa- Izurieta, Felipe Veloso, Gonzalo Gutierrez, Julio Vergara, Alejandro Clausse, Horacio Bruzzone, Fermin Castillo, and Luis F. Delgado- Aparicio. Characterization of the axial plasma shock in a table top plasma focus after the pinch and its possible application to testing materials for fusion reactors. *Physics Of Plasmas*, 21(12), DEC 2014.
5. F. Lastra, C. E. Lopez, S. A. Reyes, and S. Wallentowitz. Emergence of a metastable pointer-state basis in non-Markovian quantum dynamics. *Physical Review A*, 90(6), DEC 1 2014.
6. Samuel A. Hevia, Rodrigo Segura, and Patricio Haeberle. Low energy electrons focused by the image charge interaction in carbon nanotubes. *Carbon*, 80:50–58, DEC 2014.
7. Giovanna Cottin, Marco A. Diaz, Maria Jose Guzman, and Boris Panes. Gravitino dark matter in split supersymmetry with bilinear R-parity violation. *European Physical Journal C*, 74(11), NOV 6 2014.
8. J. Alfaro and S. M. Riquelme. Bosonic (p-1)-forms in Einstein-Cartan theory of gravity. *Physical Review D*, 90:104005, NOV 4 2014.
9. M. C. Depassier. Comment on “Domain wall motion in thin ferromagnetic nanotubes: Analytic results” by Goussev Arseni et al. *EPL*, 108(3), NOV 2014.
10. L. Irazola, M. Lorenzoli, R. Bedogni, A. Pola, J. A. Terron, B. Sanchez- Nieto, M. R. Exposito, J. I. Lagares, F. Sansaloni, and F. Sanchez-Doblado. A new online detector for estimation of peripheral neutron equivalent dose in organ. *Medical Physics*, 41(11), NOV 2014.
11. Fabian Cadiz and Marco Aurelio Diaz. RGE effects on neutrino masses in partial split supersymmetry. *International Journal Of Modern Physics A*, 29(27), OCT 30 2014.

12. L. Morales-Molina, E. Doerner, C. Danieli, and S. Flach. Resonant extended states in driven quasiperiodic lattices: Aubry-Andre localization by design. *Physical Review A*, 90(4), OCT 28 2014.
13. B. Seifert, S. Wallentowitz, U. Volkmann, A. Hause, K. Sperlich, and H. Stoltz. Spectrographic phase-retrieval algorithm for femtosecond and attosecond pulses with frequency gaps. *Optics Communications*, 329:69–75, OCT 15 2014.
14. H. Bhuyan, S. Mändl, B. Bora, M. Favre, E. Wyndham, J. R. Maze, M. Walczak, and D. Manova. Surface modification by nitrogen plasma immersion ion implantation into new steel 460Li-21Cr in a capacitively coupled radio frequency discharge. *Applied Surface Science*, 316:72–77, OCT 15 2014.
15. S. A. Reyes, L. Morales-Molina, M. Orszag, and D. Spehner. Harnessing gaugefields for maximally entangled state generation. *EPL*, 108(2), OCT 2014.
16. Marco A. Diaz, Maximiliano A. Rivera, and Nicolas Rojas. On neutrino masses in the MSSM with BRpV. *Nuclear Physics B*, 887:338–357, OCT 2014.
17. A. Dreau, P. Jamonneau, O. Gazzano, S. Kosen, J. F. Roch, J. R. Maze, and V. Jacques. Probing the Dynamics of a Nuclear Spin Bath in Diamond through Time-Resolved Central Spin Magnetometry. *Physical Review Letters*, 113(13), SEP 22 2014.
18. Maria J. Retamal, Marcelo A. Cisternas, Sebastian E. Gutierrez- Maldonado, Tomas Perez-Acle, Birger Seifert, Mark Busch, Patrick Huber, and Ulrich G. Volkmann. Towards bio-silicon interfaces: Formation of an ultra-thin self-hydrated artificial membrane composed of dipalmitoylp- phosphatidylcholine (DPPC) and chitosan deposited in high vacuum from the gas-phase. *Journal Of Chemical Physics*, 141(10), SEP 14 2014.
19. T. P. Corrales, M. Bai, V. del Campo, P. Homm, P. Ferrari, A. Diamant, C. Wagner, H. Taub, K. Knorr, M. Deutsch, M. J. Retamal, U. G. Volk- mann, and P. Huber. Spontaneous Formation of Nanopatterns in Velocity- Dependent Dip-Coated Organic Films: From Dragonflies to Stripes. *Ac Nano*, 8:9954–9963, SEP 4 2014.
20. Vicente Munizaga, Griselda Garcia, Eduardo Bringa, Mariana Weiss- mann, Ricardo Ramirez, and Miguel Kiwi. Atomistic simulation of solder- ring ironfilled carbon nanotubes. *Computational Materials Science*, 92:457–463, SEP 2014.
21. S. A. Hevia, P. Homm, F. Guzman, H. M. Ruiz, G. Munoz, L. S. Caballero, M. Favre, and M. Flores. Pulsed laser deposition of carbon nanodot arrays using porous alumina membranes as a mask. *Surface & Coatings Technology*, 253:161–165, AUG 25 2014.
22. S. Michea, J. L. Palma, R. Lavin, J. Briones, J. Escrig, J. C. Denardin, and R. L. Rodriguez- Suarez. Tailoring the magnetic properties of cobalt antidot arrays by varying the pore size and

- degree of disorder. *Journal Of Physics D-Applied Physics*, 47(33), AUG 20 2014.
23. E. Arevalo and C. Mejia-Cortes. Extended in-band and band-gap solutions of the nonlinear honeycomb lattice. *Physical Review A*, 90(2), AUG 19 2014.
 24. A. Ayala, C. A. Dominguez, M. Loewe, and Y. Zhang. Weinberg sum rules at finite temperature. *Physical Review D*, 90:034012, AUG 18 2014.
 25. L. Merker, S. Kirchner, E. Munoz, and T. A. Costi. Reply to “Comment on ‘Conductance scaling in Kondo-correlated quantum dots: Role of level asymmetry and charging energy’”. *Physical Review B*, 90(7), AUG 13 2014.
 26. A. Ayala, M. Loewe, A. J. Mizher, and R. Zamora. Inverse magnetic catalysis for the chiral transition induced by thermo-magnetic effects on the coupling constant. *Physical Review D*, 90:036001, AUG 5 2014.
 27. Paola Arias, Jorge Gamboa, and Justo Lopez-Sarrion. Cosmic neutrino background as a ferromagnet. *Physics Letters B*, 735:173–175, JUL 30 2014.
 28. A. B. Oliveira, R. L. Rodriguez-Suarez, S. Michea, H. Vega, A. Azevedo, S. M. Rezende, C. Aliaga, and J. Denardin. Angular dependence of hysteresis shift in oblique deposited ferromagnetic/antiferromagnetic coupled bilayers. *Journal Of Applied Physics*, 116(3), JUL 21 2014.
 29. J. Mejia-Lopez, J. Mazo-Zuluaga, S. Lopez-Moreno, F. Munoz, L. F. Duque, and A. H. Romero. Physical properties of quasi-one-dimensional MgO and Fe₃O₄-based nanostructures. *Physical Review B*, 90(3), JUL 11 2014.
 30. Leopoldo Soto, Cristian Pavez, Fermin Castillo, Felipe Veloso, Jose Moreno, and S. K. H. Auluck. Filamentary structures in dense plasma focus: Current filaments or vortex filaments? *Physics Of Plasmas*, 21(7), JUL 2014.
 31. Gerhard Mack, Sascha Wallentowitz, and Peter E. Toschek. Decoherence in generalized measurement and the quantum Zeno paradox. *Physics Reports-Review Section Of Physics Letters*, 540(1):1–23, JUL 1 2014.
 32. R. D. Benguria and M. C. Depassier. Shift in the speed of reaction-diffusion equation with a cut-off: Pushed and bistable fronts. *Physica D-Nonlinear Phenomena*, 280:38–43, JUL 1 2014.
 33. E. Ramos-Moore, C. Espinoza, R. S. Coelho, H. Pinto, P. Brito, F. Soldeira, F. Mücklich, and J. L. Garcia. Investigations on thermal stresses of a graded Ti(C,N) coating deposited on WC-Co hardmetal. *Advanced Materials Research*, 996:848–854, JUL 2014.

34. Jorge Alfaro and Victor O. Rivelles. Very special relativity and Lorentz violating theories. *Physics Letters B*, 734:239–244, JUN 27 2014.
35. T. E. P. Bueno, D. E. Parreiras, G. F. M. Gomes, S. Michea, R. L. Rodriguez- Suarez, M. S. Araujo Filho, W. A. A. Macedo, K. Krambrock, and R. Paniago. Noncollinear ferromagnetic easy axes in Py/Ru/FeCo/IrMn spin valves induced by oblique deposition. *Applied Physics Letters*, 104(24), JUN 16 2014.
36. Esteban Castillo, Benjamin Koch, and Gonzalo Palma. On the integration offields and quanta in time dependent backgrounds. *Journal Of High Energy Physics*, (5), MAY 23 2014.
37. A. Henriquez, H. Bhuyan, M. Favre, M. J. Retamal, U. Volkmann, and E. Wyndham. Investigation of the ion beam emission from a pulsed power plasma device. *Journal Of Physics: Conference Series*, 511:012073, MAY 7 2014.
38. M. Ruiz, F. Guzman, M. Favre, S. Hevia, N. Correa, H. Bhuyan, and E. S. Wyndham. Characterization of a laser plasma produced from a graphite target. *Journal Of Physics: Conference Series*, 511:012064, MAY 7 2014.
39. G. Avaria, M. Ruiz, F. Guzmán, M. Favre, E. S. Wyndham, H. Chuaqui, and H. Bhuyan. Optical emission spectroscopy observations of fast pulsed capillary discharge plasmas. *Journal Of Physics: Conference Series*, 511:012034, MAY 7 2014.
40. J. C. Valenzuela, M. P. Valdivia, E. S. Wyndham, M. Favre, H. Chuaqui, and H. Bhuyan. A Compact Ultrafast Capillary Plasma Discharge As an Intense XUV Source. *Journal Of Physics: Conference Series*, 511:012023, MAY 7 2014.
41. M. P. Valdivia, J. C. Valenzuela, E. S. Wyndham, M. Favre, H. Chuaqui, and H. Bhuyan. Soft X-Ray Emission Analysis Of A Pulsed Capillary Discharge Operated In Nitrogen. *Journal Of Physics: Conference Series*, 511:012022, MAY 7 2014.
42. F. Guzman, M. Ruiz, E. Valderrama, M. Favre, H. Bhuyan, E. S. Wynham, and H. Chuaqui. Spectroscopic Characterization Of RF Hydrocarbon Plasmas For DLC Coatings. *Journal Of Physics: Conference Series*, 511:012017, MAY 7 2014.
43. Enrique Munoz and Francisco J. Pena. Magnetically driven quantum heat engine. *Physical Review E*, 89(5), MAY 7 2014.
44. Rodrigo A. Segura, Claudia Contreras, Ricardo Henriquez, Patricio Hae- berle, Jose Javier S. Acuna, Alvaro Adrian, Pedro Alvarez, and Samuel A. Hevia. Gold nanoparticles grown inside carbon nanotubes: synthesis and electrical transport measurements. *Nanoscale Research Letters*, 9, MAY 3 2014.

45. Vitalie Eremeev, Nellu Ciobanu, and Miguel Orszag. Thermal effects on sudden changes and freezing of correlations between remote atoms in a cavity quantum electrodynamics network. *Optics Letters*, 39(9): 2668–2671, MAY 1 2014.
46. R. Coto and M. Orszag. Determination of the maximum global quantum discord via measurements of excitations in a cavity QED network. *Journal Of Physics B: Atomic, Molecular And Optical Physics*, 47:095501, APR 24 2014.
47. J. B. S. Mendes, R. O. Cunha, O. Alves Santos, P. R. T. Ribeiro, F. L. A. Machado, R. L. Rodriguez-Suarez, A. Azevedo, and S. M. Rezende. Large inverse spin Hall effect in the antiferromagnetic metal Ir₂₀Mn₈₀. *Physical Review B*, 89(14), APR 17 2014.
48. A. Azevedo, O. Alves Santos, R. O. Cunha, R. Rodriguez-Suarez, and S. M. Rezende. Addition and subtraction of spin pumping voltages in magnetic hybrid structures. *Applied Physics Letters*, 104(15), APR 14 2014.
49. S. M. Rezende, R. L. Rodriguez-Suarez, J. C. Lopez Ortiz, and A. Azevedo. Thermal properties of magnons and the spin Seebeck effect in yttrium iron garnet/normal metal hybrid structures. *Physical Review B*, 89(13), APR 10 2014.
50. Benjamin Koch and Nicolas Rojas. An angular formalism for spin one half. *International Journal Of Geometric Methods In Modern Physics*, 11(4), APR 2014.
51. Raul Coto Cabrera and Miguel Orszag. On the propagation of quantum correlations in cavity quantum electrodynamics network. *Physica Scripta*, T160, APR 2014.
52. P. Ferrari, E. Ramos-Moore, M. A. Guitar, and A. L. Cabrera. Raman analysis of ferroelectric switching in niobium-doped lead zirconate titanate thinfilms. *Thin Solid Films*, 556:539–543, APR 1 2014.
53. S. Suarez, E. Ramos-Moore, B. Lechthaler, and F. Muecklich. Grain growth analysis of multiwalled carbon nanotube-reinforced bulk Ni composites. *Carbon*, 70:173–178, APR 2014.
54. S. Fuentes, F. Cespedes, L. Padilla-Campos, and D. E. Diaz-Droguett. Chemical and structural analysis related to defects in nanocrystalline Ba_{1-x}Sr_xTiO₃ grown via hydrothermal sol-gel. *Ceramics International*, 40(3):4975–4984, APR 2014.
55. Benjamin Koch and Frank Saueressig. Black holes within asymptotic safety. *International Journal Of Modern Physics A*, 29(8), MAR 30 2014.
56. S. M. Rezende, R. L. Rodriguez-Suarez, and A. Azevedo. Thermal control of the spin pumping damping in ferromagnetic/normal metal interfaces. *Physical Review B*, 89(9), MAR 24 2014.

57. Ever Alberto Velasquez, Johan Mazo-Zuluaga, Dora Altbir, and Jose Mejia-Lopez. Ornstein-Zernike correlations and magnetic ordering in nanostructures. *European Physical Journal B*, 87(3), MAR 10 2014.
58. Edgar Mosquera, Donovan E. Diaz-Drogue, Nicolas Carvajal, Martin Ro- ble, Mauricio Morel, and Rodrigo Espinoza. Characterization and hydro- gen storage in multi-walled carbon nanotubes grown by aerosol-assisted CVD method. *Diamond And Related Materials*, 43:66–71, MAR 2014.
59. J. C. Valenzuela, G. W. Collins, D. Mariscal, E. S. Wyndham, and F. N. Beg. Study of instability formation and EUV emission in thin liners driven with a compact 250 kA, 150 ns linear transformer driver. *Physics Of Plasmas*, 21(3), MAR 2014.
60. Vincent Bruneau, Pablo Miranda, and Georgi Raikov. Dirichlet and Neu- mann eigenvalues for half-plane magnetic Hamiltonians. *Reviews In Mathematical Physics*, 26(2), MAR 2014.
61. A. B. Klimov, J. L. Romero, and S. Wallentowitz. Quantum-state tomography for optical polarization with arbitrary photon numbers. *Physical Review A*, 89(2), FEB 28 2014.
62. M. Banados and D. Cohen. Short note on gravity with tensor auxiliary fields. *Physical Review D*, 89:016004, FEB 25 2014.
63. Gustavo Duering, Edan Lerner, and Matthieu Wyart. Length scales and self-organization in dense suspensionflows. *Physical Review E*, 89(2), FEB 18 2014.
64. Josef Mehringer and Edgardo Stockmeyer. Confinement-deconfinement transitions for two-dimensional Dirac particles. *Journal Of Functional Analysis*, 266(4): 2225–2250, FEB 15 2014.
65. A. Azevedo, O. Alves Santos, G. A. Fonseca Guerra, R. O. Cunha, R. Rodriguez-Suarez, and S. M. Rezende. Competing spin pumping effects in magnetic hybrid structures. *Applied Physics Letters*, 104(5), FEB 3 2014.
66. M. A. Guitar, E. Ramos-Moore, and F. MÃŒcklich. The influence of impurities on the formation of protective aluminium oxides on RuAl thin films. *Journal Of Alloys And Compounds*, 594:165–170, JAN 27 2014.
67. M. Lagos, M. Banados, P.G. Ferreira, and S. Garcia-Saenz. Noether Identities and Gauge-Fixing the Action for Cosmological Perturbations. *Physical Review D*, 89:024034, JAN 27 2014.
68. Christian Hepp, Tina Mueller, Victor Waselowski, Jonas N. Becker, Ben- jamin Pingault, Hadwig Sternschulte, Doris Steinmueller-Nethl, Adam Gali, Jeronimo R. Maze, Mete Atatuere, and Christoph Becher. Electro- nic Structure of the Silicon Vacancy Color Center in Diamond. *Physical Review Letters*, 112(3), JAN 24 2014.

69. D. Spehner and M. Orszag. Geometric quantum discord with Bures distance: the qubit case. *Journal Of Physics A-Mathematical And Theoretical*, 47(3), JAN 24 2014.
70. M. Loewe, F. Marquez, and R. Zamora. Vacuum instability by a chromo-electricfield in 2+1 dimensions. *Physical Review D*, 89:014019, JAN 23 2014.
71. P. Ferrari, S. Rojas, D. E. Diaz-Droguett, and A. L. Cabrera. Evaporation of Low Vapor Pressure Metals Using a Conventional Mini Electron Beam Evaporator. *Instrumentation Science And Technology*, 42:142– 152, JAN 17 2014.
72. S. M. Rezende, R. L. Rodriguez-Suarez, R. O. Cunha, A. R. Rodrigues, F. L. A. Machado, G. A. Fonseca Guerra, J. C. Lopez Ortiz, and A. Azevedo. Magnon spin-current theory for the longitudinal spin-Seebeck effect. *Physical Review B*, 89(1), JAN 15 2014.
73. Eric DeGiuli, Adrien Laversanne-Finot, Gustavo Duering, Edan Lerner, and Matthieu Wyart. Effects of coordination and pressure on sound attenuation, boson peak and elasticity in amorphous solids. *Soft Matter*, 10(30):5628–5644, 2014.
74. Edan Lerner, Eric DeGiuli, Gustavo Duering, and Matthieu Wyart. Break- down of continuum elasticity in amorphous solids. *Soft Matter*, 10(28): 5085–5092, 2014.
75. M. Loewe, C. Villavicencio, and R. Zamora. Linear sigma model and the formation of a charged pion condensate in the presence of an external magneticfield. *Physical Review D*, 89:016004, JAN 6 2014.
76. P. Ferrari, D. E. Diaz-Droguett, S. Rojas, and A. L. Cabrera. Inhibition of hydrogen absorption in bulk Pd by the formation of Ru-Pd surface alloy. *Thin Solid Films*, 550:732–737, JAN 1 2014.
77. R. L. Rodriguez-Suarez, J. L. Palma, E. O. Burgos, S. Michea, J. Escrig, J. C. Denardin, and C. Aliaga. Ferromagnetic resonance investigation in permalloy magnetic antidot arrays on alumina nanoporous membranes. *Journal Of Magnetism And Magnetic Materials*, 350:88–93, JAN 2014.
78. F. P. An et al. Independent measurement of the neutrino mixing angle theta(13) via neutron capture on hydrogen at Daya Bay. *Physical Review D*, 90(7), OCT 3 2014.
79. F. P. An et al. Search for a Light Sterile Neutrino at Daya Bay. *Physical Review Letters*, 113(14), OCT 1 2014.
80. F. P. An et al. Spectral measurement of electron antineutrino oscillation amplitude and frequency at Daya Bay. *Physical Review Letters*, 112, FEB 10 2014.
81. G. Aad et al. Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. *Physical Review D*,

90(11), DEC 24 2014.

82. G. Aad et al. Measurements of spin correlation in top-antitop quark events from proton-proton collisions at root s=7 TeV using the ATLAS detector. *Physical Review D*, 90(11), DEC 24 2014.
83. G. Aad et al. Measurement of inclusive jet charged-particle fragmentation functions in Pb plus Pb collisions at root S-NN=2.76 TeV with the ATLAS detector. *Physics Letters B*, 739:320–342, DEC 12 2014.
84. G. Aad et al. Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at root s=8 TeV with the ATLAS detector. *European Physical Journal C*, 74(12), DEC 11 2014.
85. G. Aad et al. Comprehensive measurements of t-channel single top-quark production cross sections at root S=7 TeV with the ATLAS detector. *Physical Review D*, 90(11), DEC 11 2014.
86. G. Aad et al. Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at root s=7 TeV with the ATLAS detector. *European Physical Journal C*, 74(12), DEC 10 2014.
87. G. Aad et al. Search for nonpointing and delayed photons in the diphoton and missing transverse momentumfinal state in 8 TeV pp collisions at the LHC using the ATLAS detector. *Physical Review D*, 90(11), DEC 10 2014.
88. G. Aad et al. A measurement of the ratio of the production cross sections for W and Z bosons in association with jets with the ATLAS detector. *European Physical Journal C*, 74(12), DEC 2 2014.
89. G. Aad et al. Measurement of the total cross section from elastic scatte- ring in pp collisions at root s=7 TeV with the ATLAS detector. *Nuclear Physics B*, 889:486–548, DEC 2014.
90. G. Aad et al. Measurement offlow harmonics with multi-particle cumu- lants in Pb plus Pb collisions at root(NN)-N-S=2.76 TeV with the ATLAS detector. *European Physical Journal C*, 74(11), NOV 26 2014.
91. G. Aad et al. Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. *European Physical Journal C*, 74(11), NOV 26 2014.
92. G. Aad et al. Observation of an Excited B-c(+/-) Meson State with the ATLAS Detector. *Physical Review Letters*, 113(21), NOV 21 2014.
93. G. Aad et al. Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at root s=8 TeV with the ATLAS detector. *Journal*

Of High Energy Physics, (11), NOV 19 2014.

94. G. Aad et al. Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at root s=8 Tev with the ATLAS detector. *Journal Of High Energy Physics*, (11), NOV 18 2014.
95. G. Aad et al. Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at root s=8 TeV with the ATLAS detector. *Journal Of High Energy Physics*, (11), NOV 12 2014.
96. G. Aad et al. Measurement of the cross section of high transverse momentum $Z \rightarrow b\bar{b}$ production in proton-proton collisions at root s=8 TeV with the ATLAS detector. *Physics Letters B*, 738:25–43, NOV 10 2014.
97. G. Aad et al. Search for the Standard Model Higgs boson decay to $\mu(+) \mu(-)$ with the ATLAS detector. *Physics Letters B*, 738:68–86, NOV 10 2014.
98. G. Aad et al. Fiducial and differential cross sections of Higgs boson production measured in the four-lepton decay channel in pp collisions at root s=8 TeV with the ATLAS detector. *Physics Letters B*, 738:234– 253, NOV 10 2014.
99. G. Aad et al. Search for new resonances in W gamma and Z gamma final states in pp collisions at root s=8 TeV with the ATLAS detector. *Physics Letters B*, 738:428–447, NOV 10 2014.
100. G. Aad et al. Measurement of the cross-section of high transverse momentum vector bosons reconstructed as single jets and studies of jet substructure in pp collisions at root s=7TeV with the ATLAS detector. *New Journal Of Physics*, 16, NOV 4 2014.
101. G. Aad et al. Measurements of jet vetoes and azimuthal decorrelations in dijet events produced in pp collisions at root s=7 TeV using the ATLAS detector. *European Physical Journal C*, 74(11), OCT 31 2014.
102. G. Aad et al. Measurement of the $t(\bar{t})$ production cross-section using e mu events with b-tagged jets in pp collisions at root s=7 and 8 TeV with the ATLAS detector. *European Physical Journal C*, 74(10), OCT 29 2014.
103. G. Aad et al. Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector. *Journal Of High Energy Physics*, (10), OCT 24 2014.
104. G. Aad et al. Search for the leptonflavor violating decay $Z \rightarrow e \mu$ in pp collisions at root s=8 TeV with the ATLAS detector. *Physical Review D*, 90(7), OCT 23 2014.

105. G. Aad et al. Search for Scalar Diphoton Resonances in the Mass Range 65-600 GeV with the ATLAS Detector in pp Collision Data at root s=8 TeV. *Physical Review Letters*, 113(17), OCT 20 2014.
106. G. Aad et al. Search for the direct production of charginos, neutralinos and staus infinal states with at least two hadronically decaying taus and missing transverse momentum in pp collisions at root s=8 TeV with the ATLAS detector. *Journal Of High Energy Physics*, (10), OCT 16 2014.
107. G. Aad et al. Measurements of normalized differential cross sections for t(t)over-bar production in pp collisions at root(s)=7 TeV using the ATLAS detector. *Physical Review D*, 90(7), OCT 13 2014.
108. G. Aad et al. Measurement of long-range pseudorapidity correlations and azimuthal harmonics in root s(NN)=5.02 TeV proton-lead collisions with the ATLAS detector. *Physical Review C*, 90(4), OCT 9 2014.
109. G. Aad et al. Search for WZ resonances in the fully leptonic channel using pp collisions at root s=8 TeV with the ATLAS detector. *Physics Letters B*, 737:223–243, OCT 7 2014.
110. G. Aad et al. Evidence for Electroweak Production of W(+/-)W(+/-)jj in pp Collisions at root s=8 TeV with the ATLAS Detector. *Physical Review Letters*, 113(14), OCT 3 2014.
111. G. Aad et al. Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. *European Physical Journal C*, 74(10), OCT 1 2014.
112. G. Aad et al. Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using root s=8 TeV proton-proton collision data. *Journal Of High Energy Physics*, (9), SEP 30 2014.
113. G. Aad et al. Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at root s = 8 TeV with the ATLAS detector. *Physical Review D*, 90(5), SEP 24 2014.
114. G. Aad et al. Flavor tagged time-dependent angular analysis of the B- s(0) -> J/psi phi decay and extraction of Delta Gamma(s) and the weak phase phi(s) in ATLAS. *Physical Review D*, 90(5), SEP 23 2014.
115. G. Aad et al. Measurements offiducial and differential cross sections for Higgs boson production in the diphoton decay channel at TeV with ATLAS. *Journal Of High Energy Physics*, (9):1–61, SEP 19 2014.

116. G. Aad et al. Search for high-mass dilepton resonances in pp collisions at root s = 8 TeV with the ATLAS detector. *Physical Review D*, 90(5), SEP 19 2014.
117. G. Aad et al. Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb(-1) of root s=8 TeV proton-proton collision data with the ATLAS detector. *Journal Of High Energy Physics*, (9), SEP 18 2014.
118. G. Aad et al. Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at root s=7 TeV in 2010. *European Physical Journal C*, 74(9), SEP 16 2014.
119. G. Aad et al. Measurement of the production cross-section of psi(2S) -> J/psi(-> mu(+)-mu(-))pi(+) pi(-) in pp collisions at root s=7 TeV at ATLAS. *Journal Of High Energy Physics*, (9):1–49, SEP 12 2014.
120. G. Aad et al. Measurement of the Higgs boson mass from the H -> gamma gamma and H -> ZZ* -> 4l channels in pp collisions at center- of-mass energies of 7 and 8 TeV with the ATLAS detector. *Physical Review D*, 90(5), SEP 9 2014.
121. G. Aad et al. Search for supersymmetry in events with four or more leptons in root s=8 TeV pp collisions with the ATLAS detector. *Physical Review D*, 90(5), SEP 4 2014.
122. G. Aad et al. A neural network clustering algorithm for the ATLAS silicon pixel detector. *Journal Of Instrumentation*, 9, SEP 2014.
123. G. Aad et al. Search for direct pair production of the top squark in all- hadronic final states in proton-proton collisions at=8 TeV with the ATLAS detector. *Journal Of High Energy Physics*, (9), SEP 1 2014.
124. G. Aad et al. Light-quark and gluon jet discrimination in collisions at root s=7 TeV with the ATLAS detector. *European Physical Journal C*, 74(8), AUG 21 2014.
125. G. Aad et al. Search for microscopic black holes and string balls infinal states with leptons and jets with the ATLAS detector at root s=8 TeV. *Journal Of High Energy Physics*, (8), AUG 18 2014.
126. G. Aad et al. Measurement of the centrality and pseudorapidity dependence of the integrated ellipticflow in lead-lead collisions at root S-NN=2.76 TeV with the ATLAS detector. *European Physical Journal C*, 74(8), AUG 13 2014.
127. G. Aad et al. Measurement of event-plane correlations in root s(NN)=2.76 TeV lead-lead collisions with the ATLAS detector. *Physical Review C*, 90(2), AUG 12 2014.

128. G. Aad et al. Measurement of the underlying event in jet events from 7 proton-proton collisions with the ATLAS detector. *European Physical Journal C*, 74(8), AUG 12 2014.
129. G. Aad et al. Operation and performance of the ATLAS semiconductor tracker. *Journal Of Instrumentation*, 9, AUG 2014.
130. G. Aad et al. Measurement of chi(c1) and chi(c2) production with root s=7 TeV pp collisions at ATLAS. *Journal Of High Energy Physics*, (7), JUL 30 2014.
131. G. Aad et al. Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. *European Physical Journal C*, 74(7), JUL 15 2014.
132. G. Aad et al. Search for dark matter in events with a Z boson and missing transverse momentum in pp collisions at root s=8 TeV with the ATLAS detector. *Physical Review D*, 90(1), JUL 10 2014.
133. G. Aad et al. Monitoring and data quality assessment of the ATLAS liquid argon calorimeter. *Journal Of Instrumentation*, 9, JUL 2014.
134. G. Aad et al. The differential production cross section of the phi(1020) meson in root s=7 TeV pp collisions measured with the ATLAS detector. *European Physical Journal C*, 74(7), JUL 1 2014.
135. G. Aad et al. Search for direct top-squark pair production infinal states with two leptons in pp collisions at root s=8 TeV with the ATLAS detector. *Journal Of High Energy Physics*, (6), JUN 19 2014.
136. G. Aad et al. Measurement of the low-mass Drell-Yan differential cross section at root s=7 TeV using the ATLAS detector. *Journal Of High Energy Physics*, (6), JUN 18 2014.
137. G. Aad et al. Measurements of Four-Lepton Production at the Z Resonance in pp Collisions at root s=7 and 8 TeV with *Atlas*. *Physical Review Letters*, 112(23), JUN 13 2014.
138. G. Aad et al. Search for direct top squark pair production in events with a boson, -jets and missing transverse momentum in TeV collisions with the ATLAS detector. *European Physical Journal C*, 74(6), JUN 3 2014.
139. G. Aad et al. Search for top quark decays $t \rightarrow q H$ with $H \rightarrow \gamma\gamma$ using the ATLAS detector. *Journal Of High Energy Physics*, (6), JUN 3 2014.
140. G. Aad et al. Measurement of the parity-violating asymmetry parameter and the helicity amplitudes for the decay $\Lambda(0)(b) \rightarrow J/\psi \Lambda(0)$ with the ATLAS detector.

Physical Review D, 89(9), MAY 27 2014.

141. G. Aad et al. Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS. *Physical Review Letters*, 112(20), MAY 20 2014.
142. G. Aad et al. Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. *Journal Of High Energy Physics*, (5), MAY 14 2014.
143. G. Aad et al. Search for Higgs boson decays to a photon and a Z boson in pp collisions at root s=7 and 8 TeV with the ATLAS detector. *Physics Letters B*, 732:8–27, MAY 1 2014.
144. G. Aad et al. Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in root s=8 TeV pp collisions with the ATLAS detector. *Journal Of High Energy Physics*, (4), APR 28 2014.
145. G. Aad et al. Measurement of the production cross section of prompt j/psi mesons in association with a W (+/-) boson in pp collisions root s=7 TeV with the ATLAS detector. *Journal Of High Energy Physics*, (4), APR 28 2014.
146. G. Aad et al. Study of heavy-flavor quarks produced in association with top-quark pairs at root s=7 TeV using the ATLAS detector. *Physical Review D*, 89(7), APR 21 2014.
147. G. Aad et al. Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at=8 TeV using the ATLAS detector. *Journal Of High Energy Physics*, (4), APR 7 2014.
148. G. Aad et al. Measurement of the inclusive isolated prompt photons cross section in pp collisions at root s=7 TeV with the ATLAS detector using 4.6 fb(-1). *Physical Review D*, 89(5), MAR 24 2014.
149. G. Aad et al. Search for Quantum Black Hole Production in High- Invariant-Mass Lepton plus Jet Final States Using pp Collisions at root s=8 TeV and the ATLAS Detector. *Physical Review Letters*, 112(9), MAR 5 2014.
150. G. Aad et al. Measurement of the top quark pair production charge asymmetry in proton-proton collisions at root s=7 TeV using the ATLAS detector. *Journal Of High Energy Physics*, (2), FEB 25 2014.
151. G. Aad et al. Search for a multi-Higgs-boson cascade in W(+)-W(-)-b(b)-over-bar events with the ATLAS detector in pp collisions at root s=8 TeV. *Physical Review D*, 89(3), FEB 19 2014.
152. G. Aad et al. Standalone vertexfinding in the ATLAS muon spectrometer. *Journal Of Instrumentation*, 9, FEB 2014.

153. G. Aad et al. Search for Dark Matter in Events with a Hadronically Decaying W or Z Boson and Missing Transverse Momentum in pp Collisions at root s=8 TeV with the ATLAS Detector. *Physical Review Letters*, 112(4), JAN 29 2014.
154. G. Aad et al. Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at root s = 8 TeV proton-proton collisions using the ATLAS experiment (vol 10, pg 130, 2013). *Journal Of High Energy Physics*, (1), JAN 21 2014.
155. G. Aad et al. Measurement of the mass difference between top and anti-top quarks in pp collisions at root s=7 TeV using the ATLAS detector. *Physics Letters B*, 728:363–379, JAN 20 2014.
156. G. Aad et al. Search for new phenomena in photon plus jet events collected in proton-proton collisions at root s=8 TeV with the ATLAS detector. *Physics Letters B*, 728:562–578, JAN 20 2014.
157. G. Aad et al. Search for new particles in events with one lepton and missing transverse momentum in pp collisions at sqrt(s) = 8 TeV with the ATLAS detector. *JHEP*, 9:37, 2014.
158. G. Aad et al. Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at sqrt(s) = 8 TeV proton-proton collisions with the ATLAS detector. *JHEP*, 10:24, 2014.
159. G. Aad et al. Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in sqrt(s) = 8 TeV pp collisions with the ATLAS detector. *JHEP*, 11:118, 2014.
160. G. Aad et al. Measurement of the Z/ γ^* boson transverse momentum distribution in pp collisions at sqrt(s) = 7 TeV with the ATLAS detector. *JHEP*, 09:145, 2014.
161. G. Aad et al. Jet energy measurement and its systematic uncertainty in proton-proton collisions at sqrt(s)=7 TeV with the ATLAS detector. *European Physical Journal C*, 75:17, 2014.
162. G. Aad et al. Search for supersymmetry at sqrt(s)=8 TeV final states with jets and two same-sign leptons or three leptons with the ATLAS detector. *JHEP*, 06:35, 2014.
163. G. Aad et al. Search for direct production of charginos, neutralinos and sleptons final states with two leptons and missing transverse momentum in pp collisions at sqrt(s) = 8 TeV with the ATLAS detector. *JHEP*, 05:71, 2014.
164. G. Aad et al. Measurement of the production of a W boson in association with a charm quark in pp collisions at sqrt(s)=7 TeV with the ATLAS detector. *JHEP*, 05:68, 2014.