

## DATOS GENERALES

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### **Títulos:**

- Lic. en Física Nuclear (2002)
- MSc. en Física Nuclear (2005)
- Dr. en Ciencias Físicas (2013)

## List of Publications and Reports

1. Herrera, E. F.; Montero, M. E.; López N.; Sánchez D. y **Casanova A.** VII Taller de la Cátedra de Medio Ambiente, ISCTN, La Habana. Correcciones experimentales de sumas por coincidencia en los valores de eficiencia de detectores de HPGe para muestras líquidas medioambientales con geometría compleja (ISBN 07462-7462).
2. **A. O. Casanova**, N. López, A. Gelen, Manso Guevara, M. V., O. Díaz, L. Cimino, K. D'Alessandro, J.C. Melo. (2004). Radiation Protection Dosimetry 2004 109(3):189-195 "Shielding analysis of the Microtron MT-25 bunker using the MCNP-4C Code and NCRP Report 51".
3. O. Díaz, A. Gelen, N. López, A. Navas, M.V. Manso, J. Soto, K. D'Alessandro, **A. Casanova**, J. Beltrán. "Intercomparación entre el Análisis por Activación Neutrónica (AAN) y la Espectrometría de Masas Inducida por Plasma (ICP-MS) en el estudio de Sedimentos marinos". Contribución a la Educación y la Protección Ambiental. Vol. 5. (2004) (ISBN 959-7136-24-4) Proceedings of X Taller de la Cátedra de Medio Ambiente, InSTEC, Havana.
4. **A. O. Casanova**, N. López-Pino, M. V. Manso Guevara, K D'Alessandro, E. Herrera Peraza, A. Gelen, O. Díaz. "Study of different configurations for a subcritical ensemble using MCNP-4C code". Anais da XXVIII Reunião de trabalho sobre Física Nuclear no Brasil, Guarujá, São Paulo, 07-11 September (2005). (ISBN 978-85-88325-90-6 Editora Livraria da Física, p.315-324).
5. A. Gelen, E. Reyes, C. Toledo, W. Izquierdo, F. Ruiz, M. Ramírez, J. Beltrán, A. Martín, Y. Corrales, N. López, **A. O. Casanova**, O. Díaz, M.V. Manso, K. D'Alessandro "Heavy metal determination by X-Rays Spectrometry for superficial

- sediments at Guantanamo bay” (ISBN 959-7136-46-5) Proceedings of the XI Workshop on Nuclear Physics (WONP-2007), La Habana, Cuba. 5-8 February, (2007).
6. A. Gelen, E. Reyes, W. Izquierdo, C. Toledo, N. López-Pino, Y. Corrales, **A. O. Casanova**, O. Díaz, M.V, Manso, J. Beltrán, M. Pérez, J. Soto4, K. D’Alessandro, M. Ramírez “Heavy metal determination by X-Rays Spectrometry in superficial sediments at Havana Bay”, (ISBN 978-85-99141-02-1). Proceedings of the International Nuclear Atlantic Conference (INAC 2007). SP, Brazil, 30 September – 5 October, (2007)
  7. O. Díaz Arado, O. Díaz Rizo, N. López, K. D’Alessandro, S. Olivares, D. de la Rosa, A. Gelen, **O.A.Casanova Diaz**, F. Padilla, Y. Corrales, G. Arencibia. “Análisis multielemental de sedimentos superficiales del Golfo de Guacanayabo Cuba”. Contribución a la Educación y la Protección Ambiental. Vol. 8. (2008) pp. 283-294.
  8. O. Díaz Arado, O. Díaz Rizo, K. D Alessandro, A. Gelen, **O. A. Casanova**, F. Padilla, Y. Corrales, N. López, N. L Maidana. “Evaluation of the ED-XRF facility at InSTEC for marine sediment pollution studies” (ISBN 978-0-7354-0676-6) Proceedings of the XXXI Reunión de Trabajo de Física Nuclear en Brasil (XXXI RTFNB) AIP Conf. Proc. 1139, 158 (2009); <http://dx.doi.org/10.1063/1.3157801>
  9. H. Reyes, J. Bernal, O. Díaz Rizo, K. D Alessandro, F. Padilla, Y. corrales, **A. O. Casanova**, A. Gelen, Y. Martinez, J. Aguilar Mena, N. López. “Enviromental radioactivity study in surface sediments of Guacanayabo Gulf (Cuba).” (ISBN 978-0-7354-0676-6) Proceedings of the XXXI Reunión de Trabajo de Física Nuclear en Brasil (XXXI RTFNB) AIP Conf. Proc. 1139, 156 (2009); <http://dx.doi.org/10.1063/1.3157800>
  10. **The ALICE Collaboration** (K Aamodt et al) “The ALICE experiment at the CERN LHC” Journal of Instrumentation JINST **3** S08002 (2008)
  11. **The ALICE Collaboration** (P. Cortese et al.). CERN-LHCC-2008-014, CERN-ALICE-TDR-014 “ALICE electromagnetic calorimeter technical design report” (2008)
  12. **A. Casanova**, G. Conesa “Prompt photon identification in the ALICE-EMCal calorimeter: The Isolation Cut Method at the generation level” ALICE-INT-2009-002
  13. N. López-Pino, F. Padilla-Cabal, Y. Martinez-Palenzuela, J.L. Bernal-Castillo, K. D’Alessandro, Y. Arbelo, **A.O. Casanova**, Y. Corrales and O.D. Rizo. “Computed photo-peak efficiency calculation for a low-background gamma spectrometer”.

- (ISBN 978-959-7136-62-0) Proceedings of the XII Workshop on Nuclear Physics and VI International Symposium on Nuclear and Related Techniques in Agriculture, Industry and Environment (WONP NURT-2009), La Habana, Cuba. 9-12 February, (2009).
14. J. L. Borrel, N. López-Pino, O. Díaz Rizo, K. D'Alessandro, F. Padilla-Cabal, Y. Arbelo, A. R. Garcia, E.L. Quintas, **A. O. Casanova**. "Uranium Enrichment Determination of the InSTEC Sub Critical Ensemble Fuel by Gamma Spectrometry". (ISBN 978-959-7136-62-0) Proceedings of the XII Workshop on Nuclear Physics and VI International Symposium on Nuclear and Related Techniques in Agriculture, Industry and Environment (WONP NURT-2009), La Habana, Cuba. 9-12 February, (2009).
  15. O. Díaz Arado, O. Díaz Rizo, N. López Pino, K. D'Alessandro Rodríguez, S. Olivares Reumont, A. Gelen Rudnikas, **O.A. Casanova Díaz**, F. Padilla-Cabal, Y. Corrales Morales. "A study of environmental analysis of coast sediments using X-ray fluorescence". (ISBN 978-959-7136-62-0) Proceedings of the XII Workshop on Nuclear Physics and VI International Symposium on Nuclear and Related Techniques in Agriculture, Industry and Environment (WONP NURT-2009), La Habana, Cuba. 9-12 February, (2009).
  16. Oscar Diaz Rizo, Neivy Lopez Pino, Kattia D'Alessandro Rodriguez, Henry Reyes , Carmen Rodenas, Fatima Padilla-Cabal, Juana O. Arado, **Amaya Casanova**, Alina Gelen Rudnikas, Jose Gomez. "Characterization of the low-background gamma spectrometer at instec for environmental radioactivity studies". (ISBN 978-959-7136-62-0) Proceedings of the XII Workshop on Nuclear Physics and VI International Symposium on Nuclear and Related Techniques in Agriculture, Industry and Environment (WONP NURT-2009), La Habana, Cuba. 9-12 February, (2009).
  17. H. Reyes, O. Díaz Rizo, N. López Pino, K. D'Alessandro, F. Padilla-Cabal, A. Gelen1, **O.A. Casanova**, J.O. Arado, G. Arencibia "Radioactivity levels of coast sediments in Guacanayabo gulf, Cuba". (ISBN 978-959-7136-62-0) Proceedings of the XII Workshop on Nuclear Physics and VI International Symposium on Nuclear and Related Techniques in Agriculture, Industry and Environment (WONP NURT-2009), La Habana, Cuba. 9-12 February, (2009).
  18. **The ALICE Collaboration** (K Aamodt et al) "First proton-proton collisions at the LHC as observed with the ALICE detector: measurement of the charged-particle

- pseudorapidity density at 900 GeV” (arXiv:0911.5430v2[hep-ex]) **Eur. Phys. J. C 65: 111-125, 2010**
19. **The ALICE-EMCal Group** (Allen, J et al) “Performance of prototypes for the ALICE electromagnetic calorimeter” (arXiv:0912.2005 [physics.ins-det]) Nuclear Inst. and Methods in Physics Research A 615 (2010) 6-13
  20. **ALICE Collaboration** (K Aamodt et al) Alignment of the ALICE Inner Tracking System with cosmic-ray track. JINST 5, P03003, 2010.
  21. **ALICE Collaboration** (K Aamodt et al) “Charged-particle multiplicity measurement in proton–proton collisions at  $\sqrt{s} = 0.9$  and 2.36 TeV with ALICE at LHC”. **Eur. Phys. J. C 68: 89-108, 2010.**
  22. **ALICE Collaboration** (K Aamodt et al) “Charged-particle multiplicity measurement in proton–proton collisions at  $\sqrt{s} = 7$  TeV with ALICE at LHC”. **Eur. Phys. J. C Letter 68: 345–354, 2010.**
  23. **ALICE Collaboration** (K Aamodt et al) “Midrapidity Antiproton-to-Proton Ratio in pp Collisions at  $\sqrt{s} = 0.9$  and 7 TeV measured by the ALICE Experiment” **PHYSICAL REVIEW LETTERS PRL 105, 072002 (2010)**
  24. **ALICE Collaboration** (K Aamodt et al) “Two-pion Bose-Einstein correlations in pp collisions at  $\sqrt{s} = 900\text{GeV}$ ” **PHYSICAL REVIEW D 82, 052001 (2010)**
  25. **ALICE Collaboration** (K Aamodt et al) “Transverse momentum spectra of charged particles in proton–proton collisions at  $\sqrt{s} = 900$  GeV with ALICE at the LHC” **Physics Letters B 693 (2010) 53–68**
  26. **ALICE Collaboration** (K Aamodt et al) “Charged-Particle Multiplicity Density at Midrapidity in Central Pb-Pb Collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **PHYSICAL REVIEW LETTERS PRL 105, 252301 (2010)**
  27. **ALICE Collaboration** (K Aamodt et al) “Elliptic Flow of Charged Particles in Pb-Pb Collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **PHYSICAL REVIEW LETTERS PRL 105, 252302 (2010)**
  28. **The ALICE-EMCal Group** (U. Abeysekara et al) “ALICE EMCal Physics Performance Report” (arXiv: 1008.0413 [physics.ins-det]), 2010
  29. **ALICE Collaboration** (K Aamodt et al) “Suppression of charged particle production at large transverse momentum in central Pb–Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Physics Letters B 696 (2011) 30–39**

30. **ALICE Collaboration** (K Aamodt et al) “Centrality Dependence of the Charged-Particle Multiplicity Density at Midrapidity in Pb-Pb Collisions at  $\sqrt{s_{NN}}=2.76$  TeV” **PHYSICAL REVIEW LETTERS PRL** 106, 032301 (2011)
31. **ALICE Collaboration** (K Aamodt et al) “Two-pion Bose–Einstein correlations in central Pb–Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Physics Letters B** 696 (2011) 328–337
32. **ALICE Collaboration** (K. Aamodt et al) “Rapidity and transverse momentum dependence of inclusive  $J/\psi$  production in pp collisions at  $\sqrt{s} = 7$  TeV” **Phys. Lett. B** 704 (2011) 442-455
33. **ALICE Collaboration** (K Aamodt et al) “Strange particle production in proton–proton collisions at  $\sqrt{s} = 0.9$  TeV with ALICE at the LHC” **Eur. Phys. J. C** (2011) 71: 1594
34. **ALICE Collaboration** (K Aamodt et al) “Production of pions, kaons and protons in pp collisions  $\sqrt{s} = 900$  GeV with ALICE at the LHC” **Eur.Phys.J.C** 71(6): 1655, 2011
35. **A. Casanova Díaz**, L. Calero Díaz, G. Conesa Balbastre, L. Cunqueiro Méndez, C. García Trápaga. “Photons and  $\pi^0$  discrimination in the electromagnetic calorimeter (EMCal) of the ALICE experiment”. **LNF–11/13(P)**
36. **Amaya Casanova Díaz**, Gustavo Conesa Balbastre, Cesar García Trápaga. “High pT  $\gamma$  and jets predictions with PYTHIA and HERWIG in p-p collisions at  $\sqrt{s} = 14$  TeV at LHC”. **Nucleus** (ISSN 0864-084X) No. 50, (2011) 12-17
37. **ALICE Collaboration** (K Aamodt et al) “[Femtoscopy of pp collisions at  \$\sqrt{s}=0.9\$  and 7 TeV at the LHC with two-pion Bose-Einstein correlations](#)” **PHYSICAL REVIEW D** 84, 112004 (2011)
38. **ALICE Collaboration** (K Aamodt et al) “Higher Harmonic Anisotropic Flow Measurements of Charged Particles in Pb-Pb Collisions at  $\sqrt{s_{NN}}=2.76$  TeV” **PHYSICAL REVIEW LETTERS PRL** 107, 032301 (2011)
39. **ALICE Collaboration** (K Aamodt et al) “Harmonic decomposition of two-particle angular correlations in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Physics Letters B** 708 (2012) 249–264
40. **ALICE Collaboration** (B. Abelev et al) “[Heavy flavour decay muon production at forward rapidity in proton--proton collisions at  \$\sqrt{s} = 7\$  TeV](#)” **Physics Letters B** 708 (2012) 265–275
41. **ALICE Collaboration** (B. Abelev et al) “ $J/\psi$  production as a function of charged particle multiplicity in pp collisions at  $\sqrt{s} = 7$  TeV” **Phys.Lett. B** 712 (2012) 165-175

42. **ALICE Collaboration** (B. Abelev et al) “Multi-strange baryon production in pp collisions at  $\sqrt{s} = 7$  TeV with ALICE” **Physics Letters B** 712 (2012) 309–318
43. **ALICE Collaboration** (B. Abelev et al) “[Measurement of charm production at central rapidity in proton-proton collisions at  \$\sqrt{s} = 7\$  TeV](#)” **JHEP** 01 (2012) 128
44. **ALICE Collaboration** (B. Abelev et al) “[Measurement of Event Background Fluctuations for Charged Particle Jet Reconstruction in Pb-Pb collisions at  \$\sqrt{s\_{NN}} = 2.76\$  TeV](#)” **JHEP** 03 (2012) 053
45. **ALICE Collaboration** (B. Abelev et al) “[J/psi polarization in pp collisions at  \$\sqrt{s} = 7\$  TeV](#)” **PHYSICAL REVIEW LETTERS** PRL 108, 082001 (2012)
46. **ALICE Collaboration** (B. Abelev et al) “Particle-yield modification in jet-like azimuthal di-hadron correlations in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **PHYSICAL REVIEW LETTERS** PRL 108, 092301 (2012)
47. **ALICE Collaboration** (B. Abelev et al) “Light vector meson production in pp collisions at  $\sqrt{s} = 7$  TeV” **Physics Letters B** 710 (2012) 557–56
48. **ALICE Collaboration** (B. Abelev et al) “Underlying Event measurements in pp collisions at  $\sqrt{s} = 0.9$  and 7 TeV with the ALICE experiment at the LHC” **JHEP** 07 (2012) 116
49. **ALICE Collaboration** (B. Abelev et al) “Measurement of charm production at central rapidity in proton-proton collisions at  $\sqrt{s} = 2.76$  TeV” **JHEP** 07 (2012) 191
50. **ALICE Collaboration** (K Aamodt et al) “J/psi suppression at forward rapidity in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Phys. Rev. Lett.** 109, 072301 (2012).
51. **ALICE Collaboration** (K Aamodt et al) “Suppression of high transverse momentum D mesons in central Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Journal High Energy Physics** 9 (2012) 112.
52. **ALICE Collaboration** (K Aamodt et al) “Production of muons from heavy flavor decays at forward rapidity in pp and Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Phys. Rev. Lett.** 109, 112301 (2012)
53. **ALICE Collaboration** (K Aamodt et al) “K<sub>0</sub>s-K<sub>0</sub>s correlations in 7 TeV pp collisions from the LHC ALICE experiment” **Physics Letters B** 717 (2012) pp. 151-161.
54. **ALICE Collaboration** (K Aamodt et al) “Neutral pion and  $\eta$  meson production in proton-proton collisions at  $\sqrt{s} = 0.9$  TeV and 7 TeV” **Physics Letters B** 717 (2012), pp. 162-172

55. **ALICE Collaboration** (K. Aamodt et al) “Transverse sphericity of primary charged particles in minimum bias proton-proton collisions at  $\sqrt{s}=0.9, 2.76$  and  $7$  TeV” **Eur. Phys. J. C** (2012) 72:2124.
56. **ALICE Collaboration** (B. Abelev et al) “ $D^+$ s meson production at central rapidity in proton–proton collisions at  $\sqrt{s} = 7$  TeV” **Physics Letters B** 718 (2012), pp. 279-294
57. **ALICE Collaboration** (B. Abelev et al) “Inclusive  $J/\psi$  production in pp collisions at  $\sqrt{s} = 2.76$  TeV ” **Physics Letters B** 718 (2012), pp. 295-306
58. **ALICE Collaboration** (B. Abelev et al) “Erratum to “Rapidity and transverse momentum dependence of inclusive  $J/\psi$  production in pp collisions at  $\sqrt{s} = 7$  TeV” [Phys. Lett. B 704 (5) (2011) 442] **Physics Letters B** 718 (2012), pp. 692-698
59. **ALICE Collaboration** (B. Abelev et al) “Production of  $K^*(892)0$  and  $\phi(1020)$  in pp collisions at  $\sqrt{s} = 7$  TeV ” **Eur. Phys. J. C** (2012) 72:2183
60. **ALICE Collaboration** (B. Abelev et al) “Measurement of prompt  $J/\psi$  and beauty hadron production cross sections at mid-rapidity in pp collisions at  $\sqrt{s} = 7$  TeV” **JHEP**11(2012)065
61. **ALICE Collaboration** (B. Abelev et al) “Pion, Kaon, and Proton Production in Central Pb-Pb Collisions at  $\sqrt{s_{NN}}=2.76$  TeV” **Phys. Rev. Lett.** 109, 252301 (2012)
62. **ALICE Collaboration** (B. Abelev et al) “Measurement of the Cross Section for Electromagnetic Dissociation with Neutron Emission in Pb-Pb Collisions at  $\sqrt{s_{NN}}=2.76$  TeV” **Phys. Rev. Lett.** 109, 252302 (2012)
63. **ALICE Collaboration** (B. Abelev et al) “Measurement of electrons from semileptonic heavy-flavor hadron decays in pp collisions at  $\sqrt{s}= 7$  TeV” **Phys. Rev. D** 86, 112007 (2012)
64. **ALICE Collaboration** (B. Abelev et al) “Charge separation relative to the reaction plane in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV” **Phys. Rev. Lett.** 110, 012301 (2013)
65. **ALICE Collaboration** (B. Abelev et al) “Coherent  $J/\psi$  photoproduction in ultra-peripheral Pb–Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Physics Letters B** 718 (2013), pp. 1273–1283
66. **ALICE Collaboration** (B. Abelev et al) “Anisotropic flow of charged hadrons, pions and (anti-)protons measured at high transverse momentum in Pb–Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Physics Letters B** 719 (2013), pp. 18–28

67. **ALICE Collaboration** (B. Abelev et al) “Long-range angular correlations on the near and away side in p–Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV” **Physics Letters B** 719 (2013), pp. 29–41
68. **ALICE Collaboration** (B. Abelev et al) “Pseudorapidity Density of Charged Particles in p+Pb Collisions at  $\sqrt{s_{NN}} = 5.02$  TeV” **Phys. Rev. Lett.** 110, 032301 (2013)
69. **ALICE Collaboration** (B. Abelev et al) “Centrality dependence of charged particle production at large transverse momentum in Pb–Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Physics Letters B** 720 (2013), pp. 52–62
70. **ALICE Collaboration** (B. Abelev et al) “Measurement of electrons from beauty hadron decays in pp collisions at  $\sqrt{s} = 7$  TeV” **Physics Letters B** 721 (2013), pp. 13–23
71. **ALICE Collaboration** (B. Abelev et al) “Net-Charge Fluctuations in Pb-Pb Collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Phys. Rev. Lett.** 110, 152301 (2013)
72. **ALICE Collaboration** (B. Abelev et al) “Measurement of the inclusive differential jet cross section in pp collisions at  $\sqrt{s} = 2.76$  TeV ” **Physics Letters B** 722 (2013), pp. 262-272
73. **ALICE Collaboration** (B. Abelev et al) “Charge correlations using the balance function in Pb–Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV ” **Physics Letters B** 723 (2013), pp. 267-279
74. **ALICE Collaboration** (B. Abelev et al) “Long-range angular correlations of  $\pi$ , K and p in p–Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV ” **Physics Letters B** 726 (2013), pp. 164-177
75. **ALICE Collaboration** (B. Abelev et al) “Centrality dependence of the pseudorapidity density distribution for charged particles in Pb–Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV ” **Physics Letters B** 726 (2013), pp. 610-622
76. **ALICE Collaboration** (E. Abbas et al) “Mid-rapidity anti-baryon to baryon ratios in pp collisions at  $\sqrt{s} = 0.9, 2.76$  and 7 TeV measured by ALICE” **Eur. Phys. J. C** (2013) 73:2496
77. **ALICE Collaboration** (B. Abelev et al) “Measurement of inelastic, single- and double-diffraction cross sections in proton–proton collisions at the LHC with ALICE”. **Eur. Phys. J. C** (2013) 73:2456
78. **ALICE Collaboration** (B. Abelev et al) “D Meson Elliptic Flow in Noncentral Pb–Pb Collisions at  $\sqrt{s_{NN}} = 2.76$  TeV” **Phys. Rev. Lett.** 111, 102301 (2013)



79. **ALICE Collaboration** (E. Abbas et al) “J/ψ Elliptic Flow in Pb-Pb Collisions at  $\sqrt{s_{NN}}$  2.76 TeV” **Phys. Rev. Lett.** 111, 162301 (2013)
80. **ALICE Collaboration** (B. Abelev et al) “Multiplicity dependence of the average transverse momentum in pp, p–Pb, and Pb–Pb collisions at the LHC” **Physics Letters B** 727 (2013), pp. 371-380
81. **ALICE Collaboration** (E. Abbas et al) “Charmonium and  $e + e -$  pair photoproduction at mid-rapidity in ultra-peripheral Pb–Pb collisions at  $\sqrt{s_{NN}}$  =2.76 TeV” **Eur. Phys. J. C** (2013) 73:2617
82. **ALICE Collaboration** (B. Abelev et al) “Energy dependence of the transverse momentum distributions of charged particles in pp collisions measured by ALICE” **Eur. Phys. J. C** (2013) 73:2662
83. **ALICE Collaboration** (B. Abelev et al) “KS0 and  $\Lambda$  Production in Pb-Pb Collisions at  $\sqrt{s_{NN}}$ =2.76 TeV” **Phys. Rev. Lett.** 111, 222301 (2013)
84. **ALICE Collaboration** (B. Abelev et al) “Directed Flow of Charged Particles at Midrapidity Relative to the Spectator Plane in Pb-Pb Collisions at  $\sqrt{s_{NN}}$  =2.76 TeV” **Phys. Rev. Lett.** 111, 232302 (2013)
85. **ALICE Collaboration** (B. Abelev et al) “Multiplicity dependence of two-particle azimuthal correlations in pp collisions at the LHC” **JHEP09(2013)049**
86. **ALICE Collaboration** (E. Abbas et al) “Performance of the ALICE VZERO system” **JINST** 8 P10016 (2013)
87. **ALICE Collaboration** (B. Abelev et al) “Centrality dependence of  $\pi$ , K and p production in Pb-Pb collisions at  $\sqrt{s_{NN}}$  = 2.76 TeV” **PHYSICAL REVIEW C** **88**, 044910 (2013)
88. **ALICE Collaboration** (B. Abelev et al) “Multi-strange baryon production at mid-rapidity in Pb–Pb collisions at  $\sqrt{s_{NN}}$  =2.76 TeV” **Physics Letters B** 728 (2014), pp. 216-227
89. **ALICE Collaboration** (B. Abelev et al) “Multiplicity dependence of pion, kaon, proton and lambda production in p–Pb collisions at  $\sqrt{s_{NN}}$  =5.02 TeV” **Physics Letters B** 728 (2014), pp. 25-38
90. **ALICE Collaboration** (B. Abelev et al) “Centrality, rapidity and transverse momentum dependence of J/ψ suppression in Pb–Pb collisions at  $\sqrt{s_{NN}}$  =2.76 TeV” **Physics Letters B** 734 (2014), pp. 314-327
91. **ALICE Collaboration** (B. Abelev et al) “Measurement of charged jet suppression in Pb-Pb collisions at  $\sqrt{s_{NN}}$  = 2.76 TeV” **JHEP03(2014)013**

92. **ALICE Collaboration** (B. Abelev et al) “J/ψ production and nuclear effects in p-Pb collisions at  $\sqrt{s_{NN}}=5.02\text{TeV}$ ” **JHEP**02(2014)073
93. **ALICE Collaboration** (B. Abelev et al) “Upgrade of the ALICE Experiment. Letter Of Intent” **Journal of Physics G: Nuclear and Particle Physics** (2014) V41 087001
94. **ALICE Collaboration** (B. Abelev et al) “Technical Design Report for the Upgrade of the ALICE Inner Tracking System” **Journal of Physics G: Nuclear and Particle Physics** (2014) V41 087002
95. **ALICE Collaboration** (B. Abelev et al) “Two- and three-pion quantum statistics correlations in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76 \text{ TeV}$  at the CERN Large Hadron Collider” **PHYSICAL REVIEW C** **89**, 024911 (2014)
96. Oscar Díaz Rizo, Susana Olivares Rieumont, Alina Gelen Rudnikas, Katia D’Alessandro Rodríguez, Lázaro Lima Cazorla, Damarys García Céspedes, **Amaya O. Casanova Díaz**, César García Trápaga, Michel Manduca Artiles “Estudios de contaminación ambiental en La Habana mediante técnicas nucleares y conexas”. **Nucleus** No 66, 58-65, 2019
97. Alina Gelen Rudnikas, **Amaya Ofelia Casanova Díaz**, Adlín López Díaz, Oscar Díaz Rizo, Antonio Valle, Rodolfo Alfonso. Lidia Lauren Elías Hardy. “ESTATUS DE LA FORMACIÓN ACADÉMICA EN TEMAS DE PROTECCIÓN RADIOLÓGICA EN EL INSTEC-UH: LOGROS Y RETOS”. **Nucleus** No 69, 7-10, 2021
98. A. López Díaz, **A. O. Casanova Díaz**, A. Gelen Rudnikas, A. Torres Valle, R. Alfonso Laguardia, O. Díaz Rizo, C. García Trápaga, C. Duménigo González, Zaida Amador Balbona. **CURSO 2021 EN INSTEC-UH: RESULTADOS EN FÍSICA MÉDICA Y PROTECCIÓN RADIOLÓGICA**. (ISBN 978-959-7231-18-9).
99. A. López Díaz, **A. O. Casanova Díaz**, A. Gelen Rudnikas, A. Torres Valle, R. Alfonso Laguardia, O. Díaz Rizo, C. Duménigo González, Andrés de la Fuente. **Diplomado de Protección Radiológica en Aplicaciones Médicas: Resultados preliminares**. (ISBN 978-959-7231-18-9).
100. Oscar Diaz Rizo, **Amaya O. Casanova Díaz**, Arianna G. Torres Ramos, Dayron Ramos López. “Heavy metals concentration, pollution indexes and health risk assessment of urban road dust in the historical center of Havana, Cuba”. **Environ Monit Assess** (2023) 195:349

## Participación en Congresos, Conferencias y Simposiums:

1. First International Meeting on Photodynamics. Havana, February 13-19, 2000
2. III Taller de la Cátedra de Medio Ambiente, ISCTN, Havana, 2000
  - Correcciones experimentales de sumas por coincidencia en los valores de eficiencia de detectores de HPGe para muestras líquidas medioambientales con geometría compleja
3. VII Workshop on Nuclear Physics (WONP'2001). ISCTN. Havana.
  - Herrera E. F., Montero M. E., López N., Sánchez D., Casanova A. "Coincidence Correction Factors for Gamma Detection Using Marinelli vial"
4. Second International Meeting on Photodynamics. Havana, February 10-16, 2002
5. IV International Symposium on Nuclear and Related Techniques (NURT 2003)
  - Casanova A. O., López N., Gelen A. et al. "Shielding analysis of the microtron MT-25 bunker using the MCNP-4C code and NCRP REPORT 51."
6. XXVI Reunião de Trabalho em Física Nuclear no Brasil, Santos, S.P., 2004
  - M. V. Manso Guevara, N. López Pino, A. O. Casanova, O. Cruz Zubiaur, A. R. García Ríos, P. E. Martínez, C. B. Zamboni "Simulation and Optimization of neutron irradiation facility using Pu-Be sources"
7. X Taller de la Cátedra de Medio Ambiente, InSTEC, Havana. 2004
  - Intercomparación entre el Análisis por Activación Neutrónica (AAN) y la Espectrometría de Masas Inducida por Plasma (ICP-MS) en el estudio de Sedimentos marinos
8. X International Workshop on Nuclear Physics (WONP-2005). Havana, February 7-10, 2005. (Organizing Committee)
  - A Gelen, N. López, K. M.V. Manso Guevara, D'Alessandro, O. Díaz, A. O. Casanova, A. Navas, J. Soto. "Radiological evaluation of surface sediments of Havana bay"
9. XXVIII Reunião de Trabalho sobre Física Nuclear no Brasil. SP, Brasil. 7-11, September, 2005.
  - Study of different configurations for a subcritical ensemble using MCNP-4C code
10. V International Symposium on Nuclear and Related Techniques in Agriculture, Industry and Environment (NURT-2006), CEADEN, Havana, April 3-7, (2006).
  - A Gelen, Y. Corrales, N. López, P. Van Espen, M. V. Manso Guevara, A. O. Casanova, K. D'Alessandro, O. Díaz, J. Beltrán, J. Soto. "Multielemental Analysis of Surface Sediments in Havana Bay (Cuba) using X-Ray Fluorescence"
11. VII Congreso de Ciencias Del Mar (MarCuba2006). Havana, Cuba. December 4-8, 2006
  - A. Gelen, O. Diaz Rizo, J. Soto, N. Lopez, M.V. Manso Guevara, J. Gomez, A.O. Casanova, J. Beltran, C. Rodenas, M. Perez, M. Ramirez. "Tecnicas Nucleares em El manejo integral de sedimentos em La bahia de La Habana"

12. XI International Workshop on Nuclear Physics (WONP-2007). Havana, February 5-8, 2007 . (Organizing Committee)
  - Heavy metal determination by X-Rays Spectrometry for superficial sediments at Guantanamo bay
13. International Nuclear Atlantic Conference (INAC 2007). SP, Brazil, 30 September – 5 October, (2007)
  - Heavy metal determination by X-Rays Spectrometry in superficial sediments at Havana Bay.
14. 3rd International Conference on Hard and Electro-Magnetic Probes of High-Energy Nuclear Collisions 8-14 June 2008, Illa da Toxa (Galicia-Spain)
15. IV Taller Internacional CONyMA'2008. Contaminación y Protección del Medio Ambiente.
  - Izquierdo, W., Gelen, A., Toledo, C., Reyes, E., Díaz, O., López, N., Corrales, Y., **Casanova, A.O.**, Manso, M.V., Beltrán, J., Pérez, M. Metales Pesados en sedimentos superficiales de la Bahía de La Habana por Fluorescencia por Rayos X
16. XXXI Reunión de Trabajo de Física Nuclear en Brasil (XXXI RTFNB), 8–12 September 2008, São Paulo (Brazil):
  - Evaluation of the ED-XRF facility at InSTEC for marine sediment pollution studies.
  - Environmental radioactivity study in surface sediments of Guacanayabo Gulf (Cuba).
17. XII Workshop on Nuclear Physics and VI International Symposium on Nuclear and Related Techniques in Agriculture, Industry and Environment (WONP NURT-2009). Organizing Committee. (Habana-Cuba)
  - Computed photo-peak efficiency calculation for a low-background gamma spectrometer
  - Uranium Enrichment Determination of the InSTEC Sub Critical Ensemble Fuel by Gamma Spectrometry
  - A study of environmental analysis of coast sediments using X-ray fluorescence
  - Characterization of the low-background gamma spectrometer at instec for environmental radioactivity studies
  - Radioactivity levels of coast sediments in Guacanayabo gulf, Cuba
18. 21<sup>st</sup> International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, March 29 – April 4, 2009 Knoxville Tennessee USA
  - **A. Casanova**, G. Conesa “High pT  $\gamma$  and jets predictions with PYTHIA and HERWIG in pp collisions at  $\sqrt{s} = 14$  TeV at LHC”
19. EMCal Offline Meeting, 19th to 21st of May 2009, Frascati (Italy)
  - “Prompt photon identification via isolation cuts, model comparisons: HERWIG Vs PYTHIA”.
20. VI Taller Internacional CONyMA'2010. 1-5 Marzo, 2010 Habana, Cuba

- Gelen, A., Díaz, O., Soto J., López, N., D'Alessandro K., Casanova, A.O., Beltrán, J., Rodenas, C., Gomez, J. Procedimientos para la caracterización espacial y temporal de sedimentos mediante la integración de las técnicas nucleares e isotópicas
21. XIII Workshop on Nuclear Physics and VII International Symposium on Nuclear and Related Techniques in Agriculture, Industry and Environment (WONP NURT-2011). Organizing Committee. (Habana-Cuba)
- A.O. Casanova Díaz, G. Conesa Balbastre. "Performance for photon and neutral meson measurement in ALICE-EMCal."
  - L. Calero Díaz, A. O. Casanova Díaz, G. Conesa Balbastre, C. García Trápaga. "Photons and  $\pi^0$  discrimination in the electromagnetic calorimeter (EMCal) of the ALICE experiment."
22. Jornada Científica 30 Aniversario del InSTEC, Habana Cuba
- "Identificación de fotones instantáneos con el detector EMCAL del experimento ALICE".
23. XII Latinamerican Symposium On Nuclear Physics And Applications. XVI Workshop on Nuclear Physics and X International Symposium on Nuclear and Related Techniques in Agriculture, Industry and Environment (LASNPA-WONP-NURT-2017). Organizing Committee. (Habana-Cuba)
24. Taller "Las Nuevas Tecnologías al Servicio de la Salud". 12-14 Marzo, 2018, Habana, Cuba
25. XI Congreso Regional de Seguridad Radiológica y Nuclear IRPA2018. 16-20 Abril, 2018, Habana, Cuba
26. XVII Workshop on Nuclear Physics. WONP-2019, 1-5 Abril, 2019. Presidenta del Comité Organizador
- Oscar Díaz Rizo, Susana Olivares Rieumont, Alina Gelen Rudnikas, Katia D'Alessandro Rodríguez, Lázaro Lima Cazorla, Damarys García Céspedes, Amaya O. Casanova Díaz, César García Trápaga, Michel Manduca Artiles . Assessment of environmental pollution in Havana city using nuclear and related techniques
27. Jornada día internacional Física médica. Noviembre 2021, Habana, Cuba
- Alina Gelen Rudnikas, Amaya O. Casanova Díaz, Adlín López Díaz, Oscar Díaz Rizo, Antonio Torres Valle, Rodolfo Alfonso. Estatus de la formación académica en temas de Protección Radiológica en el InSTEC-UH: Logros y retos.
28. 29<sup>th</sup> Win Global Annual Conference. 23-26 mayo 2022. Japan
- Adlín López Díaz, Amaya O. Casanova Díaz, Alina Gelen Rudnikas, Antonio Torres Valle, Rodolfo Alfonso, Oscar Díaz Rizo. Curricular diploma on radiation protection in medicine: an opportunity to learn and to improve practice
29. III Jornada científica "Mujer en lo Nuclear". 30 de julio de 2022, Habana, Cuba

- A. López Díaz, A. O. Casanova Díaz, A. Gelen Rudnikas, A. Torres Valle, R. Alfonso Laguardia, O. Díaz Rizo, C. García Trápaga, C. Duménigo González, Zaida Amador Balbona. CURSO 2021 EN InSTEC-UH: RESULTADOS EN FÍSICA MÉDICA Y PROTECCIÓN RADIOLÓGICA.

30. III Jornada científica “Mujer en lo Nuclear”. 30 de julio de 2022, Habana, Cuba

- A. López Díaz, A. O. Casanova Díaz, A. Gelen Rudnikas, A. Torres Valle, R. Alfonso Laguardia, O. Díaz Rizo, C. Duménigo González, Andrés de la Fuente. Diplomado de Protección Radiológica en Aplicaciones Médicas: Resultados preliminares.