List of Peer-reviewed Publications

Gabriela González
Lic., Córdoba University (Argentina), 1988
Ph.D., Syracuse University, 1995

October 9, 2018

124. *Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations],, Phys. Rev. Lett. 120, 201102 (2018)

123. *Full Band All-sky Search for Periodic Gravitational Waves in the O1 LIGO Data*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations],, Phys. Rev. D 97, 102003 (2018)

122. *Constraints on cosmic strings using data from the first Advanced LIGO Observing run*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations],, Phys. Rev. D 97, 102002 (2018)

121. *All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], Class. Quant. Grav. **35**, no. 6, 065009 (2018)

120. *GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences,* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], Phys. Rev. Lett. **120**, no. 9, 091101 (2018)

119. *GW170608: Observation of a 19-solar-mass Binary Black Hole Coalescence,* B. . P. .Abbott *et al.* [LIGO Scientific and Virgo Collaborations], Astrophys. J. **851**, no. 2, L35 (2017)

118. *Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817,* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], Astrophys. J. **851**, no. 1, L16 (2017)

117. *Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory,* A. Albert *et al.* [ANTARES and IceCube and Pierre Auger and LIGO Scientific and Virgo Collaborations], Astrophys. J. **850**, no. 2, L35 (2017)

116. *Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817,* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], Astrophys. J. **850**, no. 2, L39 (2017)

115. *A gravitational-wave standard siren measurement of the Hubble constant,* B. P. Abbott *et al.* (LIGO Scientific and Virgo and 1M2H and Dark Energy Camera GW-E and DES and DLT40 and Las Cumbres Observatory and VINROUGE and MASTER Collaborations), Nature **551**, no. 7678, 85 (2017)

114. *The basic physics of the binary black hole merger GW150914* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations]. Annalen Phys. (2016),

113. *Binary Black Hole Mergers in the first Advanced LIGO Observing Run* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], Phys. Rev. X **6**, 041015 (2016)

112. *Improved analysis of GW150914 using a fully spin-precessing waveform Model* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations]. Phys. Rev. X **6**, 041014 (2016)

109. *GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence* , The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. Lett. 116, 241103 (2016)

108. *Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence'* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations].Phys. Rev. D **94**, 064035 (2016)

107. *Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations]. Phys. Rev. D **94**, no. 4, 042002 (2016)

106. *Search for transient gravitational waves in coincidence with short-duration radio transients during 20072013'* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations]. Phys. Rev. D **93**, no. 12, 122008 (2016)

105. *High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube*, S. Adrin-Martnez et al. (ANTARES, IceCube, The LIGO Scientific Collaboration and The Virgo Collaboration), Phys. Rev. D 93, 122010 (2016)

104. *GW150914: First results from the search for binary black hole coalescence with Advanced LIGO*, B. P. Abbott et al. The LIGO Scientific Collaboration and the Virgo Collaboration, Phys. Rev. D 93, 122003 (2016) B. P. Abbott et al. The LIGO Scientific Collaboration and the Virgo Collaboration

103. *Astrophysical Implications of the Binary Black-Hole Merger GW150914* B. P. Abbott et al. The LIGO Scientific Collaboration and the Virgo Collaboration Astrophys. J. Lett. 818, L22 (2016)

102. *Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914* Classical and Quantum Gravity 33, 134001 (2016)

101. *GW150914: The Advanced LIGO Detectors in the Era of First Discoveries* B. P. Abbott et al. The LIGO Scientific Collaboration and the Virgo Collaboration Phys. Rev. Lett. 116, 131103 (2016)

100. *Observing gravitational-wave transient GW150914 with minimal assumptions* B. P. Abbott et al. The LIGO Scientific Collaboration and the Virgo Collaboration Phys. Rev. D 93, 122004 (2016)

99. *Localization and broadband follow-up of the gravitational-wave transient GW150914* Astrophys. J. Lett. 826, L13 (2016)

98. *Properties of the binary black hole merger GW150914* B. P. Abbott et al. The LIGO Scientific Collaboration and the Virgo Collaboration Phys. Rev. Lett. 116, 241102 (2016)

97. *Tests of general relativity with GW150914* B. P. Abbott et al. The LIGO Scientific Collaboration and the Virgo Collaboration Phys. Rev. Lett. 116, 221101 (2016)

96. *GW150914: Implications for the stochastic gravitational-wave background from binary black holes*, The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. Lett.116, 131102 (2016)

95. *Astrophysical Implications of the Binary Black-Hole Merger GW150914* , The LIGO Scientific Collaboration and The Virgo B. P. Abbott et al. (LSC, Virgo, and EM follow-up partners) Collaboration, ApJL, 818, L22, 2016

94. *GW150914: The Advanced LIGO Detectors in the Era of First Discoveries* , The LIGO Scientific Collaboration and The Virgo Collaboration, Phy. Rev. Lett. 116, 131103 (2016)

93. *Observation of Gravitational Waves from a Binary Black Hole Merger* , The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. Lett. 116, 061102 (2016)

92. *An all-sky search for long-duration gravitational wave transients with LIGO*, The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 93, 042005 (2016)

91. *First low frequency all-sky search for continuous gravitational wave signals* , The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D93, 042007 (2016)

90. *A search of the Orion spur for continuous gravitational waves using a "loosely coherent" algorithm on data from LIGO interferometers*, The LIGO Scientific Collaboration and The Virgo Collaboration,, Phys. Rev. D93, 042006 (2016)

89. *Searches for continuous gravitational waves from nine young supernova remnants* , The LIGO Scientific Collaboration and The Virgo Collaboration, Astrophys.J. 813 (2015) 1, 39

88. *Advanced LIGO* , The LIGO Scientific Collaboration, Class. Quantum Grav. 32 (2015) 074001

87. *A directed search for gravitational waves from Scorpius X-1 with initial LIGO* , The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 91 (2015) 062008

86. *Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data*, The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 91 (2015) 022004

85. *Characterization of the LIGO detectors during their sixth science run*, The LIGO Scientific Collaboration and The Virgo Collaboration, Class. Quantum Grav. 32 (2015) 105012

84. *Searching for stochastic gravitational waves using data from the two co-located LIGO Hanford detectors*, The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 91 (2015) 022003

83. *Environmental influences on the LIGO gravitational wave detectors during the 6th science run*, A. Effler et al., Class. Quan. Grav., 32 (2015) 035017

82. *Multimessenger Search for Sources of Gravitational Waves and High-energy Neutrinos: Results for Initial LIGO-Virgo and IceCube*, The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 90 (2014) 102002

81. *Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009-2010 LIGO and Virgo Data*, The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. Lett 113 (2014) 231101

80. *First all-sky search for continuous gravitational waves from unknown sources in binary systems*, The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 90 (2014), 062010

79. *Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO600, LIGO, and Virgo detectors*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 89 (2014), 122004

78. *First all-sky search for continuous gravitational waves from unknown sources in binary systems.*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 90 (2014), 062010

77. *Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev D 89 (2014) 122003

76. *Search for gravitational waves associated with gamma-ray bursts detected by the Interplanetary Network*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. Lett. 113 (2014) 011102

75. *Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005-2010*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev D 89 (2014) 102006

74. *Implementation of an F-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data* , J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Class. Quantum Grav. 31 (2014) 165014

73. *The NINJA-2 project: Detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations*, J. Aasi et al., The LIGO Scientific Collaboration, The Virgo Collaboration, and the NINJA-2 Collaboration, Class. Quantum Grav. 31 (2014) 115004

72. *Application of a Hough search for continuous gravitational waves on data from the 5th LIGO science run*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Class. Quantum Grav. 31 (2014) 085014

71. *Constraints on cosmic (super)strings from the LIGO-Virgo gravitational-wave detectors.*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. Lett. 112 (2014) 131101

70. *First Searches for Optical Counterparts to Gravitational-wave Candidate Events*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, ApJS 211 (2014) 7

69. *Gravitational wave astronomy*, Gonzlez G., Vicere, A., and Wen,L., Frontiers of Physics, 8(2013), 771

68. *Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 88(2013) 122004

67. *A directed search for continuous Gravitational Waves from the Galactic Center*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 88(2013) 102022

66. *Parameter estimation for compact binary coalescence signals with the first generation gravitational wave detector network*, J. Aasi et al., The LIGO Scientific Collaboration and The Virgo Collaboration, Phys. Rev. D 88(2013) 062001

65. *Search for Gravitational Waves from Binary Black Hole Inspiral, Merger and Ringdown in LIGO-Virgo Data from 2009-2010*, J. Aasi et al., (The LIGO Scientific Collaboration and The Virgo Collaboration) Phys. Rev. D 87 (2013) 022002.

64. *Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light*, J. Aasi et al., The LIGO Scientific Collaboration, Nature Photonics 7 (2013) 613

63. *A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007*, Adrian-Martinez et al., The ANTARES Collaboration, The LIGO Scientific Collaboration and The Virgo Collaboration, JCAP 1306 (2013) 008

62. *Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data*, J. Aasi et al., (The LIGO Scientific Collaboration and The Virgo Collaboration), Phys. Rev. D 87 (2012) 042001.

61. *Swift Follow-Up Observations Of Candidate Gravitational-Wave Transient Events*, P.A. Evans et al. (The LIGO Scientific Collaboration, the Virgo Collaboration et al.), ApJS 203 (2012) 28.

60. *Search for gravitational waves associated with gamma-ray bursts during LIGO science run 6 and Virgo science run 2 and 3*, J. Abadie et al., (The LIGO Scientific Collaboration, The VirgoCollaboration et al.), Astrophys. J. 760 (2012) 12

59. *The Characterization of Virgo Data and its Impact on Gravitational-Wave Searches* J. Aasi et al., (The LIGO Scientific Collaboration and The Virgo Collaboration), Classical and Quantum Gravity 29, 155002 (2012).

58. *All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run*, J. Abadie et al., (The LIGO Scientific Collaboration and The Virgo Collaboration), Phys. Rev. D 85 (2012) 122007

57. *Search for Gravitational Waves from Intermediate Mass Binary Black Holes*, J. Abadie et al., (The LIGO Scientific Collaboration and The Virgo Collaboration), Phys. Rev. D 85 (2012) 102004

56. *Implications for the Origin of GRB 051103 from LIGO Observations*, J. Abadie et al., (The LIGO Scientific Collaboration et al.), Astrophys. J. 755 (2012) 2

55. *Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600-1000 Hz*, J. Abadie et al., (The LIGO Scientific Collaboration and The Virgo Collaboration), Phys. Rev. D 85 (2012) 122001

54. *First Low-Latency LIGO+Virgo Search for Binary Inspirals and their Electromagnetic Counterparts*, J. Abadie et al., (The LIGO Scientific Collaboration and The Virgo Collaboration), Astron Astrophys 541 (2012) A155

53. *All-sky Search for Gravitational-Wave Bursts in the Second Joint LIGO-Virgo Run*, J. Abadie et al. (The LIGO Scientific Collaboration and The VIRGO Collaboration), Phys. Rev. D 85, 102004 (2012).

52. *Search for Gravitational Waves from Low Mass Compact Binary Coalescence in LIGO's Sixth Science Run and Virgo's Science Runs 2 and 3*, J. Abadie et al. (The LIGO Scientific Collaboration and The VIRGO Collaboration), Phys. Rev. D85 (2012) 082002

51. *Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts*, J. Abadie et al. (The LIGO Scientific Collaboration and The VIRGO Collaboration), Astronomy and Astrophysics 539, A124 (2012)

50. *All-sky search for periodic gravitational waves in the full S5 LIGO data*, J. Abadie et al. (The LIGO Scientific Collaboration and The VIRGO Collaboration), Phys. Rev D85 (2012) 022001

49. *Directional limits on gravitational waves using LIGO S5 science data*, B. Abbott et al. (The LIGO Scientific Collaboration and The VIRGO Collaboration), Phys. Rev. Lett. 107 (2011) 271102

48. *A gravitational wave observatory operating beyond the quantum shot-noise limit*, J. Abadie et al. (LIGO Scientific Collaboration), Nature Physics 7 (2011) 962

47. *Beating the spin-down limit on gravitational wave emission from the Vela pulsar*, J. Abadie et al. (The LIGO Scientific Collaboration and The VIRGO Collaboration), Astrophys. J. 737 (2011) 93

46. *Calibration of the LIGO Gravitational Wave Detectors in the Fifth Science Run*, J. Abadie et al. (LIGO Scientific Collaboration), Nucl. Instrum. Meth. A624 (2010) 223.

45. *Predictions for the Rates of Compact Binary Coalescences Observable by Ground-based Gravitational-wave Detectors*, J. Abadie et al. (The LIGO Scientific Collaboration and The VIRGO Collaboration), Class. Quantum Grav. 27 (2010) 173001

44. *Methods for reducing false alarms in searches for compact binary coalescences in LIGO data*, J Slutsky, L Blackburn, D A Brown, L Cadonati, J Cain, M Cavagli, S Chatterji, N Christensen, M Coughlin, S Desai, G Gonzlez, T Isogai, E Katsavounidis, B Rankins, T Reed, K Riles, P Shawhan, J R Smith, N Zotov and J Zweizig, Class. Quantum Grav. 27 (2010) 165023

43. *Accurate calibration of test mass displacement in the LIGO interferometers*, E Goetz, R L Savage Jr, J Garofoli, G Gonzalez, E Hirose, P Kalmus, K Kawabe, J Kissel, M Landry, B O'Reilly, X Siemens, A Stuver and M Sung, Class. Quantum Grav. (2010) 27 084024

42. *Precise calibration of LIGO test mass actuators using photon radiation pressure*, E Goetz, P Kalmus, S Erickson, R L Savage Jr, G Gonzalez, K Kawabe, M Landry, S Marka, B O'Reilly, K Riles, D Sigg and P Willems, Class. Quantum Grav. 26 (2009) 245011

41. *Search for Gravitational Waves from Low Mass Binary Coalescences in the First Year of LIGO's S5 Data*, B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D 79 (2009) 122001

40. *Search for gravitational-wave bursts in the first year of the fifth LIGO science run*, B. Abbott et al. (LIGO Scientific Collaboration), Phys Rev D 80 (2009) 102001.

39. *Search for gravitational wave ringdowns from perturbed black holes in LIGO S4 data*, B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D 80 (2009) 062001.

38. *Search for Gravitational Waves from Low Mass Compact Binary Coalescence in 186 Days of LIGO's fifth Science Run*, B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D 80 (2009) 047101

37. *LIGO: The Laser Interferometer Gravitational-Wave Observatory*, B. Abbott et al. (LIGO Scientific Collaboration), Rep. Prog. Phys. 72 (2009) 07690.

36. *The LSC glitch group: monitoring noise transients during the fifth LIGO science run* L Blackburn, L Cadonati, S Caride, S Caudill, S Chatterji, N Christensen, J Dalrymple, S Desai, A Di Credico, G Ely, J Garofoli, L Goggin, G Gonzlez, R Gouaty, C Gray, A Gretarsson, D Hoak, T Isogai, E Katsavounidis, J Kissel, S Klimenko, R A Mercer, S Mohapatra, S Mukherjee, F Raab, K Riles, P Saulson, R Schofield, P Shawhan, J Slutsky, J R Smith, R Stone, C Vorvick, M Zanolin, N Zotov and J Zweizig, (2008) Class. Quantum Grav. 25 184004

35. *Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals*, B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D 78 (2008) 042002

34. *Implications for the Origin of GRB 070201 from LIGO Observations*, B. Abbott et al. (LIGO Scientific Collaboration), Hurley, Astrophys. J. 681 (2008) 1419

33. *Search for gravitational waves from binary inspirals in S3 and S4 LIGO data*, B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D 77 (2008) 062002

32. *Search for Gravitational Waves Associated with 39 Gamma-Ray Bursts Using data from the Second, Third, and Fourth LIGO Runs*, B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D 77 (2008) 062004

31. *Host Galaxies Catalog Used in LIGO Searches for Compact Binary Coalescence Events*, R K Kopparapu, C Hanna, V Kalogera, R O'Shaughnessy, G González, P R Brady, and S Fairhurst, The Astrophysical Journal, 675:14591467, 2008 March 10.

30. *Search for gravitational-wave bursts in LIGO data from the fourth science run*, B. Abbott et al. (LIGO Scientific Collaboration), Class. Quantum Grav. 24 (2007) 5343-5369.

29. *Upper Limits on Gravitational Wave Emission from 78 Radio Pulsars*, B. Abbott et al. (LIGO Scientific Collaboration), M. Kramer, A. G. Lyne, Phys. Rev. D 76, 042001 (2007).

28. *Searching for a Stochastic Background of Gravitational Waves with LIGO*, B. Abbott et al. (LIGO Scientific Collaboration), Astrophysical Journal 659, 918 (2007).

27. *Search for gravitational-wave bursts in LIGO's third science run*, B. Abbott et al. (LIGO Scientific Collaboration), Class. Quantum Grav. 23 No 8 (21 April 2006) S29-S39

26. *Joint LIGO and TAMA300 search for gravitational waves from inspiralling neutron star binaries*, B. Abbott et al. (LIGO Scientific Collaboration) and T. Akutsu et al. (TAMA Collaboration), Phys. Rev. D 73, 102002 (2006)

25. *Search for gravitational waves from binary black hole inspirals in LIGO data*, B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D 73, 062001 (2006)

24. *Search for Gravitational Waves from primordial black hole binary coalescences in the galactic halo* B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D. 72, 082002 (2005)

23. *Search for Gravitational Waves from galactic and extra-galactic binary neutron stars* B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D. 72, 082001 (2005)

22. *Upper Limits on Gravitational Wave Bursts in LIGO's Second Science Run* B. Abbott et al. (LIGO Scientific Collaboration), Phys. Rev. D 72, 062001 (2005)

21. *Status of LIGO data analysis* G González (for the LIGO Scientific Collaboration), Class. Quantum Grav. 21 (2004) S1575-S1583.

20. *Vetoes for inspiral triggers in LIGO Data* N Christensen, P Shawhan, G González (for the LIGO Scientific Collaboration), Class. Quantum Grav. 21 No 20 (21 October 2004) S1747-S1755.

19. *Searching for gravitational waves from binary inspirals with LIGO* Duncan A Brown, Stanislav Babak, Patrick R Brady, Nelson Christensen, Thomas Cokelaer, Jolien D E Creighton, Stephen Fairhurst, Gabriela González, Eirini Messaritaki, B S Sathyaprakash, Peter Shawhan and Natalia Zotov Class. Quantum Grav. 21 No 20 (21 October 2004) S1625-S1633.

18. *Analysis of LIGO data for gravitational waves from binary neutron stars*, The LIGO Scientific Collaboration: B. Abbott, et al; Phys. Rev. D 69, 122001 (2004)

17. *First upper limits from LIGO on gravitational wave bursts*, The LIGO Scientific Collaboration: B. Abbott et al.; Phys. Rev. D 69, 102001 (2004)

16. *Detector Description and Performance for the First Coincidence Observations between LIGO and GEO*, The LIGO Scientific Collaboration: B. Abbott et al., Nuclear Inst. and Methods in Physics Research A, Vol. 517/1-3, pp. 154-179 (2004)

15. *Search for inspiralling neutron stars in LIGO S1 data* Gabriela González (for the LIGO Scientific Collaboration) Class. Quantum Grav. 21 No 5 (7 March 2004) S691-S696

14. *Calibration of the LIGO detectors for the First LIGO Science Run* R Adhikari, G González, M Landry and B O'Reilly Class. Quantum Grav. 20 No 17 (7 September 2003) S903-S914

13. *An improved Phase Noise Interferometer Prototype for Gravitational Wave Detectors*, B. Lantz, E. Daw, P. Fritschel. G. González, H. Rong, *J. Opt. Soc. Amer. A* **19**(1)91 - 100, January 2002.

12. *Readout and Control of a Power-Recycled Interferometric Gravitational-Wave Antenna*, Peter Fritschel, Rolf Bork, Gabriela González, Nergis Mavalvala, Dale Ouimette, Haisheng Rong, Daniel Sigg, Michael Zucker, Appl. Opt. **40** 4988 - 4998 (2001).

11. *Suspensions thermal noise in the LIGO gravitational wave detector*, Gabriela González, Classical and Quantum Gravity **17**(21),4409 (7 November 2000) (gr-qc/0006053).

10. *Alignment of an interferometric gravitational wave detector*, P Fritschel, G González, N Mavalvala, D Shoemaker, D Sigg, M Zucker, *Applied Optics* **37**(28),6734 (1 October 1998)

9. *High Power Interferometric Phase Measurement Limited by Quantum Noise and Application to Detection of Gravitational Waves* P. Fritschel, G. González, B. Lantz, P. Saha, and M. Zucker Phys. Rev. Lett. **80**(15) 3181-3184 (13 April 1998)

8. *Brownian Motion of a Torsion Pendulum damped by Internal Friction* G.I. González and P.R. Saulson, *Phys. Lett.* A 201, 12-18 (1995).

7. *Brownian motion of a mass suspended by an anelastic wire* G.I. González and P.R. Saulson, *J. Acoust. Soc. Am.* **96**, 207-212 (1994).

6. *Classical Analysis of Bianchi I and II Cosmologies with the New Variables*, G.I. González and R.S. Tate, *Class. Quan. Grav.*, **12**, 1287-1303 (1995).

5. *BRST analysis of 2+1 gravity* G. González, J.Pullin. *Physical Review D* **42**, 3395-3400 (1990).

4. *Non stationary one soliton solutions of the vacuum Einstein equations with Alekseev's Inverse Scattering Technique* A. Dagotto, R. Gleiser, G. González, J. Pullin *Physics Letters A* **146**,15-20 (1990).

3. *Completeness and singularities in some inhomogeneous cosmologies* M. Díaz, R. Gleiser, G. González, J. Pullin *Physical Review D* **40**,1033 (1989).

2. *A note on Einstein-Maxwell solitons and vacuum to electrovac solutions transforms* R. Gleiser, G. González, J. Pullin *Astrophysics and Space Science* **149**,369 (1988).

1. *Higher order poles in the Belinskii-Zakharov Inverse Scattering Method* R. Gleiser, G. González, J. Pullin *Physics Letters A* **130**, 206 (1988).

Theses

- "Thermal Noise in a Torsion Pendulum Damped by Internal Friction", Ph.D. thesis, Syracuse University, March 1995. (Advisor: Peter R. Saulson.)
- "Cosmologías solitónicas" (Solitonic cosmologies), Córdoba University Press, (thesis work presented at FaMAF, Córdoba University to obtain the title of "Licenciada" in Physics) (1987). (Advisor: Mario Díaz.)