

List of Peer-reviewed Publications

Gabriela González

Lic., Córdoba University (Argentina), 1988

Ph.D., Syracuse University, 1995

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I am an author of all the publications authored by the LIGO Scientific Collaboration (LSC) up to the present; as of November 2016 these are more than 100 observational results and instrument papers. The complete list can be found in <https://www.lsc-group.phys.uwm.edu/ppcomm/Papers.html>

I include below in reverse chronological order the list of non-LSC publications I am an author of, and a selection of LSC publications in which I had a significant role. In particular, I include all the LSC publications since March 2011, when I was elected spokesperson for the Collaboration.

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. D* 93, 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. D* 93, 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*, Gonzalez 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.
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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

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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. D 85 (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)
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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
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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 Gonzalez, 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

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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.
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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 Gonzalez, 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
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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

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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. *Vetoos 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.
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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).
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Theses

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