## List of Publications

## Dr. Jessica McIver

## Dated December 2017

\*Indicates refereed publications

- 1. The impact of transient noise on the parameter estimation of gravitational waves from binary black holes. J. McIver et al. In prep.
- 2. \* GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. B.P. Abbott et al. PRL 119, 161101 (2017) PAPER WRITING TEAM MEMBER
- 3. \* Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914.

  B. P. Abbott et al. Class. Quantum Grav. 33 134001 (2016) LEAD AUTHOR
- \* Effects of transients in LIGO suspensions on searches for gravitational waves. M. Walker, T. D. Abbott, S. M. Aston, G. González, D. M. Macleod, J. McIver, et al. Accepted by the Review of Scientific Instruments. (2017)
- 5. Effects of Data Quality Vetoes on a Search for Compact Binary Coalescences in Advanced LIGO's First Observing Run. B.P. Abbott et al. Submitted to Class. Quantum Grav. (2017)
- 6. \* Observation of Gravitational Waves from a Binary Black Hole Merger. B. P. Abbott et al. PRL 116, 061102 (2016)
- 7. \* Upper limits on the rates of binary neutron star and neutron-star--black-hole mergers from Advanced LIGO's first observing run. B.P. Abbott et al. Ap. J. Letters 832, 2 (2016)
- 8. \* Multi-messenger Observations of a Binary Neutron Star Merger. B.P. Abbott et al. Ap. J. Letters 848, 2. (2017)
- 9. \* Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. B.P. Abbott et al. Ap. J. Letters 848, 2 (2017)
- 10. \* A gravitational-wave standard siren measurement of the Hubble constant. B.P. Abbott et al. Nature doi:10.1038/nature24471 (2017)
- 11. GW170608: Observation of a 19-solar-mass Binary Black Hole Coalescence. B.P. Abbott et al. Submitted. arXiv 1711.05578 (2017)
- 12. \* GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. B.P. Abbott et al. PRL 119, 141101 (2017)
- 13. \* GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. B. P. Abbott et al. PRL 118, 221101 (2017)
- 14. \* GW151226: Observation of Gravitational Waves from a 22 Solar-mass Binary Black Hole Coalescence. B. P. Abbott et al. PRL 116, 241103 (2016)
- 15. \* Binary Black Hole Mergers in the first Advanced LIGO Observing Run. B.P. Abbott et al. Phys. Rev. X 6, 041015 (2016)
- 16. \* Upper limits on the rates of binary neutron star and neutron-star--black-hole mergers from Advanced LIGO's first observing run. B.P. Abbott et al. Ap. J. Letters 832, 2. (2016)

- 17. \* All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. B.P. Abbott et al. Phys. Rev. D 95, 042003 (2017)
- 18. \* Observing gravitational-wave transient GW150914 with minimal assumptions. B.P. Abbott et al. Phys. Rev. D 93, 122004 (2016)
- 19. \* GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. B.P. Abbott et al. Phys. Rev. D 93, 122003 (2016)
- 20. \* Improving the data quality of Advanced LIGO based on early engineering run results. L. Nuttall et al. Class. Quant. Grav. 32 (2015)
- 21.\* Characterization of the LIGO detectors during their sixth science run. J. Aasi, et. al. Class. Quant. Grav. 32 115012 (2015)
- 22.\* Seismic isolation of Advanced LIGO: Review of strategy, instrumentation and performance. F. Matichard et al. Class. Quant. Grav. 32 185003 (2015)
- 23. \* Data Quality Studies of Enhanced Interferometric Gravitational Wave Detectors. Jessica McIver, for the LIGO Scientific Collaboration and the Virgo Collaboration. Class. Quantum Grav. 29 124010 (2012)
- 24. \* All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. J. Abadie et al. Phys. Rev. D 85, 122007 (2012)
- 25. \* Search for gravitational waves from binary black hole inspiral, merger, and ring-down in LIGO- Virgo data from 2009-2010. J. Aasi et. al. Phys. Rev. D 87, 022002 (2012)
- 26. \* 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. Phys. Rev. D 85, 082002 (2012)
- 27.\* A hierarchical method for vetoing noise transients in gravitational-wave detectors. Joshua R Smith, Thomas Abbott, Eiichi Hirose, Nicolas Leroy, Duncan Macleod, Jessica McIver, Peter Saulson, Peter Shawhan. Class. Quantum Grav. 28 235005 (2011)
- 28. Search for post-merger gravitational waves from the remnant of the binary neutron star merger GW170817. B.P. Abbott et al. Submitted. (2017)
- 29. GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. B.P. Abbott et al. Submitted. (2017)
- 30. First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. B.P. Abbott et al. Submitted. (2017)
- 31. First search for nontensorial gravitational waves from known pulsars. B.P. Abbott et al. Submitted. (2017)
- 32. \* First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. B.P. Abbott et al. Accepted for publication in Phys. Rev. D. (2017)
- 33. \* Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. Accepted for publication in Ap. J. Letters (2017)

- 34. \* On the Progenitor of Binary Neutron Star Merger GW170817. B.P. Abbott et al. Accepted for publication in Ap. J. Letters (2017)
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- 41. \* First search for gravitational waves from known pulsars with Advanced LIGO. B.P. Abbott et al. Ap. J. 389, 1 (2017)
- 42. \* Directional limits on persistent gravitational waves from Advanced LIGO's first observing run. B.P. Abbott et al. PRL 118, 121102 (2017)
- 43. \* Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. B.P. Abbott et al. PRL 118, 121101 (2017). Erratum PRL 119, 029901 (2017)
- 44. \* Search for Gravitational Waves Associated with Gamma-Ray Bursts During the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. B.P. Abbott et al. Ap. J. 841, 2 (2017)
- 45. \* Effects of waveform model systematics on the interpretation of GW150914. B.P. Abbott et al. Class. Quantum Grav. 34, 10 (2017)
- 46. \* Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. B.P. Abbott et al. Phys. Rev. D 95, 082005 (2017)
- 47. \* The basic physics of the binary black hole merger GW150914. B.P. Abbott et al. Annalen der Physik, Volume 529, Issue 1-2 (2017)
- 48. \* Exploring the Sensitivity of Next Generation Gravitational Wave Detectors. B.P. Abbott et al. CQG 34, 4 (2017)
- 49. \* Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. B.P. Abbott et al. Phys. Rev. D 94, 064035 (2016)
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- 54. \* The Sensitivity of the Advanced LIGO Detectors at the Beginning of Gravitational Wave Astronomy. D.V. Martynov et al. Phys. Rev. D 93, 112004 (2016)
- 55. \* Localization and broadband follow-up of the gravitational-wave transient GW150914. B.P. Abbott et al. Ap. J. Letters 826, 13 (2016)
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- 81. \* Improved upper limits on the stochastic gravitational-wave background from 2009--2010 LIGO and Virgo data. J. Aasi et al. Phys. Rev. Letters. (October 2014)
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