

List of Peer-reviewed Publications

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146. *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)
145. *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)
144. *Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Class. Quant. Grav.* **35**, no. 6, 065010 (2018)
143. *First search for nontensorial gravitational waves from known pulsars*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Phys. Rev. Lett.* **120**, no. 3, 031104 (2018)
142. *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)
141. *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)
140. *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)
139. *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)
138. *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)
137. *Gravitational Waves and Gamma-rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A*, B. P. Abbott *et al.* [LIGO Scientific and Virgo and Fermi-GBM and INTEGRAL Collaborations], *Astrophys. J.* **848**, no. 2, L13 (2017)

136. *Multi-messenger Observations of a Binary Neutron Star Merger,* B. P. Abbott *et al.* [LIGO Scientific and Virgo and Fermi GBM and INTEGRAL and IceCube and IPN and Insight-Hxmt and ANTARES and Swift and Dark Energy Camera GW-EM and Dark Energy Survey and DLT40 and GRAWITA and Fermi-LAT and ATCA and ASKAP and OzGrav and DWF (Deeper Wider Faster Program) and AST3 and CAASTRO and VINROUGE and MASTER and J-GEM and GROWTH and JAGWAR and CaltechNRAO and TTU-NRAO and NuSTAR and Pan-STARRS and KU and Nordic Optical Telescope and ePESSTO and GROND and Texas Tech University and TOROS and BOOTES and MWA and CALET and IKI-GW Follow-up and H.E.S.S. and LOFAR and LWA and HAWC and Pierre Auger and ALMA and Pi of Sky and DFN and ATLAS Telescopes and High Time Resolution Universe Survey and RIMAS and RATIR and SKA South Africa/MeerKAT Collaborations and AstroSat Cadmium Zinc Telluride Imager Team and AGILE Team and 1M2H Team and Las Cumbres Observatory Group and MAXI Team and TZAC Consortium and SALT Group and Euro VLBI Team and Chandra Team at McGill University], *Astrophys. J.* **848**, no. 2, L12 (2017)
135. *GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral,* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Phys. Rev. Lett.* **119**, no. 16, 161101 (2017)
134. *First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data,* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Phys. Rev. D* **96**, no. 12, 122006 (2017)
133. *First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data,* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Phys. Rev. D* **96**, no. 12, 122004 (2017)
132. *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* **96**, no. 6, 062002 (2017)
131. *Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-Based Cross-Correlation Search in Advanced LIGO Data,* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Astrophys. J.* **847**, no. 1, 47 (2017)
130. *GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2* B. P. Abbott *et al.* [LIGO Scientific and VIRGO Collaborations], *Phys. Rev. Lett.* **118**, no. 22, 221101 (2017)
129. *Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO,* B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Phys. Rev. D* **96**, no. 2, 022001 (2017)
128. *Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model,* B. P. Abbott *et al.* [LIGO Scientific and VIRGO Collaborations], *Phys. Rev. D* **95**, no. 12, 122003 (2017)
127. *Search for High-energy Neutrinos from Gravitational Wave Event GW151226 and Candidate LVT151012 with ANTARES and IceCube,* A. Albert *et al.* [ANTARES and IceCube and LIGO Scientific and Virgo Collaborations], *Phys. Rev. D* **96**, no. 2, 022005 (2017)
126. *Effects of transients in LIGO suspensions on searches for gravitational waves,* M. Walker, Abbott, T. D., Aston, S. M., Gonzalez, G., Macleod, D. M. and McIver, J. *et. al.*, *Rev. Sci. Instrum.* **88**, no. 12, 124501 (2017)

125. *First search for gravitational waves from known pulsars with Advanced LIGO*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Astrophys. J.* **839**, no. 1, 12 (2017), Erratum: [*Astrophys. J.* **851**, no. 1, 71 (2017)]
124. *Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Phys. Rev. Lett.* **118**, no. 12, 121102 (2017)
123. *Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Phys. Rev. Lett.* **118**, no. 12, 121101 (2017), Erratum: [*Phys. Rev. Lett.* **119**, no. 2, 029901 (2017)]
122. *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.* [LIGO Scientific and Virgo and IPN Collaborations], *Astrophys. J.* **841**, no. 2, 89 (2017)
121. *Effects of waveform model systematics on the interpretation of GW150914*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Class. Quant. Grav.* **34**, no. 10, 104002 (2017)
120. *All-sky search for short gravitational-wave bursts in the first Advanced LIGO run*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Phys. Rev. D* **95**, no. 4, 042003 (2017)
119. *The basic physics of the binary black hole merger GW150914*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Annalen Phys.* **529**, no. 1-2, 1600209 (2017)
118. *Exploring the Sensitivity of Next Generation Gravitational Wave Detectors*, B. P. Abbott *et al.* [LIGO Scientific Collaboration], *Class. Quant. Grav.* **34**, no. 4, 044001 (2017)
117. *Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544*, T. D. Abbott *et al.* [LIGO Scientific and VIRGO Collaborations], *Phys. Rev. D* **95**, no. 8, 082005 (2017)
116. *Upper Limits on the Rates of Binary Neutron Star and Neutron Starblack Hole Mergers From Advanced Ligos First Observing run*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Astrophys. J.* **832**, no. 2, L21 (2016)
115. *Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Phys. Rev. D* **94**, no. 10, 102002 (2016)
114. *Supplement: The Rate of Binary Black Hole Mergers Inferred from Advanced LIGO Observations Surrounding GW150914*, B. P. Abbott *et al.* [LIGO Scientific and Virgo Collaborations], *Astrophys. J. Suppl.* **227**, no. 2, 14 (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
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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)
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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
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