

**Erratum: “Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data” (2019, *ApJ*, 879, 10)**

B. P. Abbott<sup>1</sup>, R. Abbott<sup>1</sup>, T. D. Abbott<sup>2</sup>, S. Abraham<sup>3</sup>, F. Acernese<sup>4,5</sup>, K. Ackley<sup>6</sup>, C. Adams<sup>7</sup>, R. X. Adhikari<sup>1</sup>, V. B. Adya<sup>8,9</sup>, C. Affeldt<sup>8,9</sup>, M. Agathos<sup>10</sup>, K. Agatsuma<sup>11</sup>, N. Aggarwal<sup>12</sup>, O. D. Aguiar<sup>13</sup>, L. Aiello<sup>14,15</sup>, A. Ain<sup>3</sup>, P. Ajith<sup>16</sup>, G. Allen<sup>17</sup>, A. Allocca<sup>18,19</sup>, M. A. Aloy<sup>20</sup>, P. A. Altin<sup>21</sup>, A. Amato<sup>22</sup>, A. Ananyeva<sup>1</sup>, S. B. Anderson<sup>1</sup>, W. G. Anderson<sup>23</sup>, S. V. Angelova<sup>24</sup>, S. Antier<sup>25</sup>, S. Appert<sup>1</sup>, K. Arai<sup>1</sup>, M. C. Araya<sup>1</sup>, J. S. Areeda<sup>26</sup>, M. Arène<sup>27</sup>, N. Arnaud<sup>25,28</sup>, S. Ascenzi<sup>29,30</sup>, G. Ashton<sup>6</sup>, S. M. Aston<sup>7</sup>, P. Astone<sup>31</sup>, F. Aubin<sup>32</sup>, P. Aufmuth<sup>9</sup>, K. AultONeal<sup>33</sup>, C. Austin<sup>2</sup>, V. Avendano<sup>34</sup>, A. Avila-Alvarez<sup>26</sup>, S. Babak<sup>27,35</sup>, P. Bacon<sup>27</sup>, F. Badaracco<sup>14,15</sup>, M. K. M. Bader<sup>36</sup>, S. Bae<sup>37</sup>, M. Bailes<sup>38</sup>, P. T. Baker<sup>39</sup>, F. Baldaccini<sup>40,41</sup>, G. Ballardin<sup>28</sup>, S. W. Ballmer<sup>42</sup>, S. Banagiri<sup>43</sup>, J. C. Barayoga<sup>1</sup>, S. E. Barclay<sup>44</sup>, B. C. Barish<sup>1</sup>, D. Barker<sup>45</sup>, K. Barkett<sup>46</sup>, S. Barnum<sup>12</sup>, F. Barone<sup>4,5</sup>, B. Barr<sup>44</sup>, L. Barsotti<sup>12</sup>, M. Barsuglia<sup>27</sup>, D. Barta<sup>47</sup>, J. Bartlett<sup>45</sup>, I. Bartos<sup>48</sup>, R. Bassiri<sup>49</sup>, A. Basti<sup>18,19</sup>, M. Bawaj<sup>41,50</sup>, J. C. Bayley<sup>44</sup>, M. Bazzan<sup>51,52</sup>, B. Bécsy<sup>53</sup>, M. Bejger<sup>27,54</sup>, I. Belahcene<sup>25</sup>, A. S. Bell<sup>44</sup>, D. Beniwal<sup>55</sup>, B. K. Berger<sup>49</sup>, G. Bergmann<sup>8,9</sup>, S. Bernuzzi<sup>56,57</sup>, J. J. Bero<sup>58</sup>, C. P. L. Berry<sup>59</sup>, D. Bersanetti<sup>60</sup>, A. Bertolini<sup>36</sup>, J. Betzwieser<sup>7</sup>, R. Bhandare<sup>61</sup>, J. Bidler<sup>26</sup>, I. A. Bilenko<sup>62</sup>, S. A. Bilgili<sup>39</sup>, G. Billingsley<sup>1</sup>, J. Birch<sup>7</sup>, R. Birney<sup>24</sup>, O. Birnholtz<sup>58</sup>, S. Biscans<sup>1,12</sup>, S. Biscoveanu<sup>6</sup>, A. Bisht<sup>9</sup>, M. Bitossi<sup>19,28</sup>, M. A. Bizouard<sup>25</sup>, J. K. Blackburn<sup>1</sup>, C. D. Blair<sup>7</sup>, D. G. Blair<sup>63</sup>, R. M. Blair<sup>45</sup>, S. Bloemen<sup>64</sup>, N. Bode<sup>8,9</sup>, M. Boer<sup>65</sup>, Y. Boetzel<sup>66</sup>, G. Bogaert<sup>65</sup>, F. Bondu<sup>67</sup>, E. Bonilla<sup>49</sup>, R. Bonnand<sup>32</sup>, P. Booker<sup>8,9</sup>, B. A. Boom<sup>36</sup>, C. D. Booth<sup>68</sup>, R. Bork<sup>1</sup>, V. Boschi<sup>28</sup>, S. Bose<sup>3,69</sup>, K. Bossie<sup>7</sup>, V. Bossilkov<sup>63</sup>, J. Bosveld<sup>63</sup>, Y. Bouffanais<sup>27</sup>, A. Bozzi<sup>28</sup>, C. Bradaschia<sup>19</sup>, P. R. Brady<sup>23</sup>, A. Bramley<sup>7</sup>, M. Branchesi<sup>14,15</sup>, J. E. Brau<sup>70</sup>, T. Briant<sup>71</sup>, J. H. Briggs<sup>44</sup>, F. Brighenti<sup>72,73</sup>, A. Brillet<sup>65</sup>, M. Brinkmann<sup>8,9</sup>, V. Brisson<sup>25,191</sup>, P. Brockill<sup>23</sup>, A. F. Brooks<sup>1</sup>, D. D. Brown<sup>55</sup>, S. Brunet<sup>1</sup>, A. Buikema<sup>12</sup>, T. Bulik<sup>74</sup>, H. J. Bulten<sup>36,75</sup>, A. Buonanno<sup>35,76</sup>, D. Buskulic<sup>32</sup>, C. Buy<sup>27</sup>, R. L. Byer<sup>49</sup>, M. Cabero<sup>8,9</sup>, L. Cadonati<sup>77</sup>, G. Cagnoli<sup>22,78</sup>, C. Cahillane<sup>1</sup>, J. Calderón Bustillo<sup>6</sup>, T. A. Callister<sup>1</sup>, E. Calloni<sup>5,79</sup>, J. B. Camp<sup>80</sup>, W. A. Campbell<sup>6</sup>, M. Canepa<sup>60,81</sup>, K. C. Cannon<sup>82</sup>, H. Cao<sup>55</sup>, J. Cao<sup>83</sup>, E. Capocasa<sup>27</sup>, F. Carbognani<sup>28</sup>, S. Caride<sup>84</sup>, M. F. Carney<sup>59</sup>, G. Carullo<sup>18</sup>, J. Casanueva Diaz<sup>19</sup>, C. Casentini<sup>29,30</sup>, S. Caudill<sup>36</sup>, M. Cavaglia<sup>85</sup>, F. Cavalier<sup>25</sup>, R. Cavalieri<sup>28</sup>, G. Cella<sup>19</sup>, P. Cerdá-Durán<sup>20</sup>, G. Cerretani<sup>18,19</sup>, E. Cesarini<sup>30,86</sup>, O. Chaibi<sup>65</sup>, K. Chakravarti<sup>3</sup>, S. J. Chamberlain<sup>87</sup>, M. Chan<sup>44</sup>, S. Chao<sup>88</sup>, P. Charlton<sup>89</sup>, E. A. Chase<sup>59</sup>, E. Chassande-Mottin<sup>27</sup>, D. Chatterjee<sup>23</sup>, M. Chaturvedi<sup>61</sup>, B. D. Cheeseboro<sup>39</sup>, H. Y. Chen<sup>90</sup>, X. Chen<sup>63</sup>, Y. Chen<sup>46</sup>, H.-P. Cheng<sup>48</sup>, C. K. Cheong<sup>91</sup>, H. Y. Chia<sup>48</sup>, A. Chincarini<sup>60</sup>, A. Chiummo<sup>28</sup>, G. Cho<sup>92</sup>, H. S. Cho<sup>93</sup>, M. Cho<sup>76</sup>, N. Christensen<sup>65,94</sup>, Q. Chu<sup>63</sup>, S. Chua<sup>71</sup>, K. W. Chung<sup>91</sup>, S. Chung<sup>63</sup>, G. Ciani<sup>51,52</sup>, A. A. Ciobanu<sup>55</sup>, R. Ciolfi<sup>95,96</sup>, F. Cipriano<sup>65</sup>, A. Cirone<sup>60,81</sup>, F. Clara<sup>45</sup>, J. A. Clark<sup>77</sup>, P. Clearwater<sup>97</sup>, F. Cleva<sup>65</sup>, C. Cocchieri<sup>85</sup>, E. Coccia<sup>14,15</sup>, P.-F. Cohadon<sup>71</sup>, D. Cohen<sup>25</sup>, R. Colgan<sup>98</sup>, M. Colleoni<sup>99</sup>, C. G. Collette<sup>100</sup>, C. Collins<sup>11</sup>, L. R. Cominsky<sup>101</sup>, M. Constancio, Jr.<sup>13</sup>, L. Conti<sup>52</sup>, S. J. Cooper<sup>11</sup>, P. Corban<sup>7</sup>, T. R. Corbitt<sup>2</sup>, I. Cordero-Carrión<sup>102</sup>, K. R. Corley<sup>98</sup>, N. Cornish<sup>53</sup>, A. Corsi<sup>84</sup>, S. Cortese<sup>28</sup>, C. A. Costa<sup>13</sup>, R. Cotesta<sup>35</sup>, M. W. Coughlin<sup>1</sup>, S. B. Coughlin<sup>59,68</sup>, J.-P. Coulon<sup>65</sup>, S. T. Countryman<sup>98</sup>, P. Couvares<sup>1</sup>, P. B. Covas<sup>99</sup>, E. E. Cowan<sup>77</sup>, D. M. Coward<sup>63</sup>, M. J. Cowart<sup>7</sup>, D. C. Coyne<sup>1</sup>, R. Coyne<sup>103</sup>, J. D. E. Creighton<sup>23</sup>, T. D. Creighton<sup>104</sup>, J. Cripe<sup>2</sup>, M. Croquette<sup>71</sup>, S. G. Crowder<sup>105</sup>, T. J. Cullen<sup>2</sup>, A. Cumming<sup>44</sup>, L. Cunningham<sup>44</sup>, E. Cuomo<sup>28</sup>, T. Dal Canton<sup>80</sup>, G. Dálya<sup>106</sup>, S. L. Danilishin<sup>8,9</sup>, S. D’Antonio<sup>30</sup>, K. Danzmann<sup>8,9</sup>, A. Dasgupta<sup>107</sup>, C. F. Da Silva Costa<sup>48</sup>, L. E. H. Datrier<sup>44</sup>, V. Dattilo<sup>28</sup>, I. Dave<sup>61</sup>, M. Davies<sup>25</sup>, D. Davis<sup>42</sup>, E. J. Daw<sup>108</sup>, D. DeBra<sup>49</sup>, M. Deenadayalan<sup>3</sup>, J. Degallaix<sup>22</sup>, M. De Laurentis<sup>5,79</sup>, S. Deléglise<sup>71</sup>, W. Del Pozzo<sup>18,19</sup>, L. M. DeMarchi<sup>59</sup>, N. Demos<sup>12</sup>, T. Dent<sup>8,9,109</sup>, R. De Pietri<sup>57,110</sup>, J. Derby<sup>26</sup>, R. De Rosa<sup>5,79</sup>, C. De Rossi<sup>22,28</sup>, R. DeSalvo<sup>111</sup>, O. de Varona<sup>8,9</sup>, S. Dhurandhar<sup>3</sup>, M. C. Díaz<sup>104</sup>, T. Dietrich<sup>36</sup>, L. Di Fiore<sup>5</sup>, M. Di Giovanni<sup>96,112</sup>, T. Di Girolamo<sup>5,79</sup>, A. Di Lieto<sup>18,19</sup>, B. Ding<sup>100</sup>, S. Di Pace<sup>31,113</sup>, I. Di Palma<sup>31,113</sup>, F. Di Renzo<sup>18,19</sup>, A. Dmitriev<sup>11</sup>, Z. Doctor<sup>90</sup>, F. Donovan<sup>12</sup>, K. L. Dooley<sup>68,85</sup>, S. Doravari<sup>8,9</sup>, I. Dorrington<sup>68</sup>, T. P. Downes<sup>23</sup>, M. Drago<sup>14,15</sup>, J. C. Driggers<sup>45</sup>, Z. Du<sup>83</sup>, J.-G. Ducoin<sup>25</sup>, P. Dupej<sup>44</sup>, S. E. Dwyer<sup>45</sup>, P. J. Easter<sup>6</sup>, T. B. Edo<sup>108</sup>, M. C. Edwards<sup>94</sup>, A. Effler<sup>7</sup>, P. Ehrens<sup>1</sup>, J. Eichholz<sup>1</sup>, S. S. Eikenberry<sup>48</sup>, M. Eisenmann<sup>32</sup>, R. A. Eisenstein<sup>12</sup>, R. C. Essick<sup>90</sup>, H. Estelles<sup>99</sup>, D. Estevez<sup>32</sup>, Z. B. Etienne<sup>39</sup>, T. Etzel<sup>1</sup>, M. Evans<sup>12</sup>, T. M. Evans<sup>7</sup>, V. Fafone<sup>14,29,30</sup>, H. Fair<sup>42</sup>, S. Fairhurst<sup>68</sup>, X. Fan<sup>83</sup>, S. Farinon<sup>60</sup>, B. Farr<sup>70</sup>, W. M. Farr<sup>11</sup>, E. J. Fauchon-Jones<sup>68</sup>, M. Favata<sup>34</sup>, M. Fays<sup>108</sup>, M. Fazio<sup>114</sup>, C. Fee<sup>115</sup>, J. Feicht<sup>1</sup>, M. M. Fejer<sup>49</sup>, F. Feng<sup>27</sup>, A. Fernandez-Galiana<sup>12</sup>, I. Ferrante<sup>18,19</sup>, E. C. Ferreira<sup>13</sup>, T. A. Ferreira<sup>13</sup>, F. Ferrini<sup>28</sup>, F. Fidecaro<sup>18,19</sup>, I. Fiori<sup>28</sup>, D. Fiorucci<sup>27</sup>, M. Fishbach<sup>90</sup>, R. P. Fisher<sup>42,116</sup>, J. M. Fishner<sup>12</sup>, M. Fitz-Axen<sup>43</sup>, R. Flaminio<sup>32,117</sup>, M. Fletcher<sup>44</sup>, E. Flynn<sup>26</sup>, H. Fong<sup>118</sup>, J. A. Font<sup>20,119</sup>, P. W. F. Forsyth<sup>21</sup>, J.-D. Fournier<sup>65</sup>, S. Frasca<sup>31,113</sup>, F. Frasconi<sup>19</sup>, Z. Frei<sup>106</sup>, A. Freise<sup>11</sup>, R. Frey<sup>70</sup>, V. Frey<sup>25</sup>, P. Fritschel<sup>12</sup>, V. V. Frolov<sup>7</sup>, P. Fulda<sup>48</sup>, M. Fyffe<sup>7</sup>, H. A. Gabbard<sup>44</sup>, B. U. Gadre<sup>3</sup>, S. M. Gaebel<sup>11</sup>, J. R. Gair<sup>120</sup>, L. Gammaitoni<sup>40</sup>, M. R. Ganija<sup>55</sup>, S. G. Gaonkar<sup>3</sup>, A. Garcia<sup>26</sup>, C. García-Quirós<sup>99</sup>, F. Garuffi<sup>5,79</sup>, B. Gateley<sup>45</sup>, S. Gaudio<sup>33</sup>, G. Gaur<sup>121</sup>, V. Gayathri<sup>122</sup>, G. Gemme<sup>60</sup>, E. Genin<sup>28</sup>, A. Gennai<sup>19</sup>, D. George<sup>17</sup>, J. George<sup>61</sup>, L. Gergely<sup>123</sup>, V. Germain<sup>32</sup>, S. Ghonge<sup>77</sup>, Abhirup Ghosh<sup>16</sup>, Archisman Ghosh<sup>36</sup>, S. Ghosh<sup>23</sup>, B. Giacomazzo<sup>96,112</sup>, J. A. Giaime<sup>2,7</sup>, K. D. Giardino<sup>7</sup>, A. Giazotto<sup>19,192</sup>, K. Gill<sup>33</sup>, G. Giordano<sup>4,5</sup>, L. Glover<sup>111</sup>, P. Godwin<sup>87</sup>, E. Goetz<sup>45</sup>, R. Goetz<sup>48</sup>, B. Goncharov<sup>6</sup>, G. González<sup>2</sup>, J. M. Gonzalez Castro<sup>18,19</sup>, A. Gopakumar<sup>124</sup>, M. L. Gorodetsky<sup>62</sup>, S. E. Gossan<sup>1</sup>, M. Gosselin<sup>28</sup>, R. Gouaty<sup>32</sup>, A. Grado<sup>5,125</sup>, C. Graef<sup>44</sup>, M. Granata<sup>22</sup>, A. Grant<sup>44</sup>, S. Gras<sup>12</sup>, P. Grassia<sup>1</sup>, C. Gray<sup>45</sup>, R. Gray<sup>44</sup>, G. Greco<sup>72,73</sup>, A. C. Green<sup>11,48</sup>, R. Green<sup>68</sup>, E. M. Gretarsson<sup>33</sup>, P. Groot<sup>64</sup>, H. Grote<sup>68</sup>, S. Grunewald<sup>35</sup>, P. Gruning<sup>25</sup>, G. M. Guidi<sup>72,73</sup>, H. K. Gulati<sup>107</sup>, Y. Guo<sup>36</sup>, A. Gupta<sup>87</sup>, M. K. Gupta<sup>107</sup>, E. K. Gustafson<sup>1</sup>, R. Gustafson<sup>126</sup>, L. Haegel<sup>99</sup>, O. Halim<sup>14,15</sup>, B. R. Hall<sup>69</sup>, E. D. Hall<sup>12</sup>, E. Z. Hamilton<sup>68</sup>, G. Hammond<sup>44</sup>, M. Haney<sup>66</sup>,

M. M. Hanke<sup>8,9</sup>, J. Hanks<sup>45</sup>, C. Hanna<sup>87</sup>, M. D. Hannam<sup>68</sup>, O. A. Hannuksela<sup>91</sup>, J. Hanson<sup>7</sup>, T. Hardwick<sup>2</sup>, K. Haris<sup>16</sup>, J. Harms<sup>14,15</sup>, G. M. Harry<sup>127</sup>, I. W. Harry<sup>35</sup>, C.-J. Haster<sup>118</sup>, K. Haughian<sup>44</sup>, F. J. Hayes<sup>44</sup>, J. Healy<sup>58</sup>, A. Heidmann<sup>71</sup>, M. C. Heintze<sup>7</sup>, H. Heitmann<sup>65</sup>, P. Hello<sup>25</sup>, G. Hemming<sup>28</sup>, M. Hendry<sup>44</sup>, I. S. Heng<sup>44</sup>, J. Hennig<sup>8,9</sup>, A. W. Heptonstall<sup>1</sup>, Francisco Hernandez Vivanco<sup>6</sup>, M. Heurs<sup>8,9</sup>, S. Hild<sup>44</sup>, T. Hinderer<sup>36,128,129</sup>, W. C. G. Ho<sup>130</sup>, D. Hoak<sup>28</sup>, S. Hochheim<sup>8,9</sup>, D. Hofman<sup>22</sup>, A. M. Holgado<sup>17</sup>, N. A. Holland<sup>21</sup>, K. Holt<sup>7</sup>, D. E. Holz<sup>90</sup>, P. Hopkins<sup>68</sup>, C. Horst<sup>23</sup>, J. Hough<sup>44</sup>, E. J. Howell<sup>63</sup>, C. G. Hoy<sup>68</sup>, A. Hreibl<sup>65</sup>, E. A. Huerta<sup>17</sup>, D. Huet<sup>25</sup>, B. Hughey<sup>33</sup>, M. Hulko<sup>1</sup>, S. Husa<sup>99</sup>, S. H. Huttner<sup>44</sup>, T. Huynh-Dinh<sup>7</sup>, B. Idzkowski<sup>74</sup>, A. Iess<sup>29,30</sup>, C. Ingram<sup>55</sup>, R. Inta<sup>84</sup>, G. Intini<sup>31,113</sup>, B. Irwin<sup>115</sup>, H. N. Isa<sup>44</sup>, J.-M. Isac<sup>71</sup>, M. Isi<sup>1</sup>, B. R. Iyer<sup>16</sup>, K. Izumi<sup>45</sup>, T. Jacqmin<sup>71</sup>, S. J. Jadhav<sup>131</sup>, K. Jani<sup>77</sup>, N. N. Janthaler<sup>131</sup>, P. Jaranowski<sup>132</sup>, A. C. Jenkins<sup>133</sup>, J. Jiang<sup>48</sup>, D. S. Johnson<sup>17</sup>, A. W. Jones<sup>11</sup>, D. I. Jones<sup>134</sup>, R. Jones<sup>44</sup>, R. J. G. Jonker<sup>36</sup>, L. Ju<sup>63</sup>, J. Junker<sup>8,9</sup>, C. V. Kalaghatgi<sup>68</sup>, V. Kalogera<sup>59</sup>, B. Kamai<sup>1</sup>, S. Kandhasamy<sup>85</sup>, G. Kang<sup>37</sup>, J. B. Kanner<sup>1</sup>, S. J. Kapadia<sup>23</sup>, S. Karki<sup>70</sup>, K. S. Karvinen<sup>8,9</sup>, R. Kashyap<sup>16</sup>, M. Kasprzak<sup>1</sup>, S. Katsanevas<sup>28</sup>, E. Katsavounidis<sup>12</sup>, W. Katzman<sup>7</sup>, S. Kaufer<sup>9</sup>, K. Kawabe<sup>45</sup>, N. V. Keerthana<sup>3</sup>, F. Kéfélian<sup>65</sup>, D. Keitel<sup>44</sup>, R. Kennedy<sup>108</sup>, J. S. Key<sup>135</sup>, F. Y. Khalili<sup>62</sup>, H. Khan<sup>26</sup>, I. Khan<sup>14,30</sup>, S. Khan<sup>8,9</sup>, Z. Khan<sup>107</sup>, E. A. Khazanov<sup>136</sup>, M. Khursheed<sup>61</sup>, N. Kijbunchoo<sup>21</sup>, Chunglee Kim<sup>137</sup>, J. C. Kim<sup>138</sup>, K. Kim<sup>91</sup>, W. Kim<sup>55</sup>, W. S. Kim<sup>139</sup>, Y.-M. Kim<sup>140</sup>, C. Kimball<sup>59</sup>, E. J. King<sup>55</sup>, P. J. King<sup>45</sup>, M. Kinley-Hanlon<sup>127</sup>, R. Kirchhoff<sup>8,9</sup>, J. S. Kissel<sup>45</sup>, L. Kleybolte<sup>141</sup>, J. H. Klika<sup>23</sup>, S. Klimenko<sup>48</sup>, T. D. Knowles<sup>39</sup>, P. Koch<sup>8,9</sup>, S. M. Koehlenbeck<sup>8,9</sup>, G. Koekoek<sup>36,142</sup>, S. Koley<sup>36</sup>, V. Kondrashov<sup>1</sup>, A. Kontos<sup>12</sup>, N. Koper<sup>8,9</sup>, M. Korobko<sup>141</sup>, W. Z. Korth<sup>1</sup>, I. Kowalska<sup>74</sup>, D. B. Kozak<sup>1</sup>, V. Kringel<sup>8,9</sup>, N. Krishnendu<sup>143</sup>, A. Królak<sup>144,145</sup>, G. Kuehn<sup>8,9</sup>, A. Kumar<sup>131</sup>, P. Kumar<sup>146</sup>, R. Kumar<sup>107</sup>, S. Kumar<sup>16</sup>, L. Kuo<sup>88</sup>, A. Kutynia<sup>144</sup>, S. Kwang<sup>23</sup>, B. D. Lackey<sup>35</sup>, K. H. Lai<sup>91</sup>, T. L. Lam<sup>91</sup>, M. Landry<sup>45</sup>, B. B. Lane<sup>12</sup>, R. N. Lang<sup>147</sup>, J. Lange<sup>58</sup>, B. Lantz<sup>49</sup>, R. K. Lanza<sup>12</sup>, A. Lartaux-Vollard<sup>25</sup>, P. D. Lasky<sup>6</sup>, M. Laxen<sup>7</sup>, A. Lazzarini<sup>1</sup>, C. Lazzaro<sup>52</sup>, P. Leaci<sup>31,113</sup>, S. Leavey<sup>8,9</sup>, Y. K. Lecoeuche<sup>45</sup>, C. H. Lee<sup>93</sup>, H. K. Lee<sup>148</sup>, H. M. Lee<sup>149</sup>, H. W. Lee<sup>138</sup>, J. Lee<sup>92</sup>, K. Lee<sup>44</sup>, J. Lehmann<sup>8,9</sup>, A. Lenon<sup>39</sup>, N. Leroy<sup>25</sup>, N. Letendre<sup>32</sup>, Y. Levin<sup>6,98</sup>, J. Li<sup>83</sup>, K. J. L. Li<sup>91</sup>, T. G. F. Li<sup>91</sup>, X. Li<sup>46</sup>, F. Lin<sup>6</sup>, F. Linde<sup>36</sup>, S. D. Linker<sup>111</sup>, T. B. Littenberg<sup>150</sup>, J. Liu<sup>63</sup>, X. Liu<sup>23</sup>, R. K. L. Lo<sup>1,91</sup>, N. A. Lockerbie<sup>24</sup>, L. T. London<sup>68</sup>, A. Longo<sup>151,152</sup>, M. Lorenzini<sup>14,15</sup>, V. Lorette<sup>153</sup>, M. Lormand<sup>7</sup>, G. Losurdo<sup>19</sup>, J. D. Lough<sup>8,9</sup>, C. O. Lousto<sup>58</sup>, G. Lovelace<sup>26</sup>, M. E. Lower<sup>38</sup>, H. Lück<sup>8,9</sup>, D. Lumaca<sup>29,30</sup>, A. P. Lundgren<sup>154</sup>, R. Lynch<sup>12</sup>, Y. Ma<sup>46</sup>, R. Macas<sup>68</sup>, S. Macfoy<sup>24</sup>, M. MacInnis<sup>12</sup>, D. M. Macleod<sup>68</sup>, A. Macquet<sup>65</sup>, F. Magaña-Sandoval<sup>42</sup>, L. Magaña Zertuche<sup>85</sup>, R. M. Magee<sup>87</sup>, E. Majorana<sup>31</sup>, I. Maksimovic<sup>153</sup>, A. Malik<sup>61</sup>, N. Man<sup>65</sup>, V. Mandic<sup>43</sup>, V. Mangano<sup>44</sup>, G. L. Mansell<sup>12,45</sup>, M. Manske<sup>21,23</sup>, M. Mantovani<sup>28</sup>, F. Marchesoni<sup>41,50</sup>, F. Marion<sup>32</sup>, S. Márka<sup>98</sup>, Z. Márka<sup>98</sup>, C. Markakis<sup>10,17</sup>, A. S. Markosyan<sup>49</sup>, A. Markowitz<sup>1</sup>, E. Maros<sup>1</sup>, A. Marquina<sup>102</sup>, S. Marsat<sup>35</sup>, F. Martelli<sup>72,73</sup>, I. W. Martin<sup>44</sup>, R. M. Martin<sup>34</sup>, D. V. Martynov<sup>11</sup>, K. Mason<sup>12</sup>, E. Massera<sup>108</sup>, A. Masserot<sup>32</sup>, T. J. Massinger<sup>1</sup>, M. Masso-Reid<sup>44</sup>, S. Mastrogiovanni<sup>31,113</sup>, A. Matas<sup>35,43</sup>, F. Matichard<sup>1,12</sup>, L. Matone<sup>98</sup>, N. Mavalvala<sup>12</sup>, N. Mazumder<sup>69</sup>, J. J. McCann<sup>63</sup>, R. McCarthy<sup>45</sup>, D. E. McClelland<sup>21</sup>, S. McCormick<sup>7</sup>, L. McCuller<sup>12</sup>, S. C. McGuire<sup>155</sup>, J. McIver<sup>1</sup>, D. J. McManus<sup>21</sup>, T. McRae<sup>21</sup>, S. T. McWilliams<sup>39</sup>, D. Meacher<sup>87</sup>, G. D. Meadors<sup>6</sup>, M. Mehmet<sup>8,9</sup>, A. K. Mehta<sup>16</sup>, J. Meidam<sup>36</sup>, A. Melatos<sup>97</sup>, G. Mendell<sup>45</sup>, R. A. Mercer<sup>23</sup>, L. Mereni<sup>22</sup>, E. L. Merilh<sup>45</sup>, M. Merzougui<sup>65</sup>, S. Meshkov<sup>1</sup>, C. Messenger<sup>44</sup>, C. Messick<sup>87</sup>, R. Metzdrorf<sup>71</sup>, P. M. Meyers<sup>97</sup>, H. Miao<sup>11</sup>, C. Michel<sup>22</sup>, H. Middleton<sup>97</sup>, E. E. Mikhailov<sup>156</sup>, L. Milano<sup>5,79</sup>, A. L. Miller<sup>48</sup>, A. Miller<sup>31,113</sup>, M. Millhouse<sup>53</sup>, J. C. Mills<sup>68</sup>, M. C. Milovich-Goff<sup>111</sup>, O. Minazzoli<sup>65,157</sup>, Y. Minenkov<sup>30</sup>, A. Mishkin<sup>48</sup>, C. Mishra<sup>158</sup>, T. Mistry<sup>108</sup>, S. Mitra<sup>3</sup>, V. P. Mitrofanov<sup>62</sup>, G. Mitselmakher<sup>48</sup>, R. Mittleman<sup>12</sup>, G. Mo<sup>94</sup>, D. Moffa<sup>115</sup>, K. Mogushi<sup>85</sup>, S. R. P. Mohapatra<sup>12</sup>, M. Montani<sup>72,73</sup>, C. J. Moore<sup>10</sup>, D. Moraru<sup>45</sup>, G. Moreno<sup>45</sup>, S. Morisaki<sup>82</sup>, B. Mours<sup>32</sup>, C. M. Mow-Lowry<sup>11</sup>, Arunava Mukherjee<sup>8,9</sup>, D. Mukherjee<sup>23</sup>, S. Mukherjee<sup>104</sup>, N. Mukund<sup>3</sup>, A. Mullavey<sup>7</sup>, J. Munch<sup>55</sup>, E. A. Muñoz<sup>42</sup>, M. Muratore<sup>33</sup>, P. G. Murray<sup>44</sup>, A. Nagar<sup>86,159,160</sup>, I. Nardecchia<sup>29,30</sup>, L. Naticchioni<sup>31,113</sup>, R. K. Nayak<sup>161</sup>, J. Neilson<sup>111</sup>, G. Nelemans<sup>36,64</sup>, T. J. N. Nelson<sup>7</sup>, M. Nery<sup>8,9</sup>, A. Neunzert<sup>126</sup>, K. Y. Ng<sup>12</sup>, S. Ng<sup>55</sup>, P. Nguyen<sup>70</sup>, D. Nichols<sup>36,128</sup>, S. Nissanke<sup>36,128</sup>, F. Nocera<sup>28</sup>, C. North<sup>68</sup>, L. K. Nuttall<sup>154</sup>, M. Obergaulinger<sup>20</sup>, J. Oberling<sup>45</sup>, B. D. O'Brien<sup>48</sup>, G. D. O'Dea<sup>111</sup>, G. H. Oggin<sup>162</sup>, J. J. Oh<sup>139</sup>, S. H. Oh<sup>139</sup>, F. Ohme<sup>8,9</sup>, H. Ohta<sup>82</sup>, M. A. Okada<sup>13</sup>, M. Oliver<sup>99</sup>, P. Oppermann<sup>8,9</sup>, Richard J. Oram<sup>7</sup>, B. O'Reilly<sup>7</sup>, R. G. Ormiston<sup>43</sup>, L. F. Ortega<sup>48</sup>, R. O'Shaughnessy<sup>58</sup>, S. Ossokine<sup>35</sup>, D. J. Ottaway<sup>55</sup>, H. Overmier<sup>7</sup>, B. J. Owen<sup>84</sup>, A. E. Pace<sup>87</sup>, G. Pagano<sup>18,19</sup>, M. A. Page<sup>63</sup>, A. Pai<sup>122</sup>, S. A. Pai<sup>61</sup>, J. R. Palamos<sup>70</sup>, O. Palashov<sup>136</sup>, C. Palomba<sup>31</sup>, A. Pal-Singh<sup>141</sup>, Huang-Wei Pan<sup>88</sup>, B. Pang<sup>46</sup>, P. T. H. Pang<sup>91</sup>, C. Pankow<sup>59</sup>, F. Pannarale<sup>31,113</sup>, B. C. Pant<sup>61</sup>, F. Paoletti<sup>19</sup>, A. Paoli<sup>28</sup>, A. Parida<sup>3</sup>, W. Parker<sup>7,155</sup>, D. Pascucci<sup>44</sup>, A. Pasqualetti<sup>28</sup>, R. Passaquietti<sup>18,19</sup>, D. Passuello<sup>19</sup>, M. Patil<sup>145</sup>, B. Patricelli<sup>18,19</sup>, B. L. Pearlstone<sup>44</sup>, C. Pedersen<sup>68</sup>, M. Pedraza<sup>1</sup>, R. Pedurand<sup>22,163</sup>, A. Pele<sup>7</sup>, S. Penn<sup>164</sup>, C. J. Perez<sup>45</sup>, A. Perreca<sup>96,112</sup>, H. P. Pfeiffer<sup>35,118</sup>, M. Phelps<sup>8,9</sup>, K. S. Phukon<sup>3</sup>, O. J. Piccinni<sup>31,113</sup>, M. Pichot<sup>65</sup>, F. Piergiovanni<sup>72,73</sup>, G. Pillant<sup>28</sup>, L. Pinard<sup>22</sup>, M. Pirello<sup>45</sup>, M. Pitkin<sup>44</sup>, R. Poggiani<sup>18,19</sup>, D. Y. T. Pong<sup>91</sup>, S. Ponrathnam<sup>3</sup>, P. Popolizio<sup>28</sup>, E. K. Porter<sup>27</sup>, J. Powell<sup>38</sup>, A. K. Prajapati<sup>107</sup>, J. Prasad<sup>3</sup>, K. Prasai<sup>49</sup>, R. Prasanna<sup>131</sup>, G. Pratten<sup>99</sup>, T. Prestegard<sup>23</sup>, S. Privitera<sup>35</sup>, G. A. Prodi<sup>96,112</sup>, L. G. Prokhorov<sup>62</sup>, O. Puncken<sup>8,9</sup>, M. Punturo<sup>41</sup>, P. Puppato<sup>31</sup>, M. Pürner<sup>35</sup>, H. Qi<sup>23</sup>, V. Quetschke<sup>104</sup>, P. J. Quinonez<sup>33</sup>, E. A. Quintero<sup>1</sup>, R. Quitzow-James<sup>70</sup>, F. J. Raab<sup>45</sup>, H. Radkins<sup>45</sup>, N. Radulescu<sup>65</sup>, P. Raffai<sup>106</sup>, S. Raja<sup>61</sup>, C. Rajan<sup>61</sup>, B. Rajbhandari<sup>84</sup>, M. Rakhmanov<sup>104</sup>, K. E. Ramirez<sup>104</sup>, A. Ramos-Buades<sup>99</sup>, Javed Rana<sup>3</sup>, K. Rao<sup>59</sup>, P. Rapagnani<sup>31,113</sup>, V. Raymond<sup>68</sup>, M. Razzano<sup>18,19</sup>, J. Read<sup>26</sup>, T. Regimbau<sup>32</sup>, L. Rei<sup>60</sup>, S. Reid<sup>24</sup>, D. H. Reitze<sup>148</sup>, W. Ren<sup>17</sup>, F. Ricci<sup>31,113</sup>, C. J. Richardson<sup>33</sup>, J. W. Richardson<sup>1</sup>, P. M. Ricker<sup>17</sup>, K. Riles<sup>126</sup>, M. Rizzo<sup>59</sup>, N. A. Robertson<sup>144</sup>, R. Robie<sup>44</sup>, F. Robinet<sup>25</sup>, A. Rocchi<sup>30</sup>, L. Rolland<sup>32</sup>, J. G. Rollins<sup>1</sup>, V. J. Roma<sup>70</sup>, M. Romanelli<sup>67</sup>, R. Romano<sup>4,5</sup>, C. L. Romel<sup>45</sup>, J. H. Romie<sup>7</sup>, K. Rose<sup>115</sup>, D. Rosińska<sup>54,165</sup>, S. G. Rosofsky<sup>17</sup>, M. P. Ross<sup>166</sup>, S. Rowan<sup>44</sup>, A. Rüdiger<sup>8,9,193</sup>, P. Ruggi<sup>28</sup>, G. Rutins<sup>167</sup>, K. Ryan<sup>45</sup>, S. Sachdev<sup>1</sup>, T. Sadecki<sup>45</sup>, M. Sakellariadou<sup>133</sup>, L. Salconi<sup>28</sup>, M. Saleem<sup>143</sup>, A. Samajdar<sup>36</sup>, L. Sammut<sup>6</sup>, E. J. Sanchez<sup>1</sup>, L. E. Sanchez<sup>1</sup>, N. Sanchis-Gual<sup>20</sup>, V. Sandberg<sup>45</sup>, J. R. Sanders<sup>42</sup>, K. A. Santiago<sup>34</sup>, N. Sarin<sup>6</sup>, B. Sassolas<sup>22</sup>, P. R. Saulson<sup>42</sup>,

O. Sauter<sup>126</sup>, R. L. Savage<sup>45</sup>, P. Schale<sup>70</sup>, M. Scheel<sup>46</sup>, J. Scheuer<sup>59</sup>, P. Schmidt<sup>64</sup>, R. Schnabel<sup>141</sup>, R. M. S. Schofield<sup>70</sup>, A. Schönbeck<sup>141</sup>, E. Schreiber<sup>8,9</sup>, B. W. Schulte<sup>8,9</sup>, B. F. Schutz<sup>68</sup>, S. G. Schwalbe<sup>33</sup>, J. Scott<sup>44</sup>, S. M. Scott<sup>21</sup>, E. Seidel<sup>17</sup>, D. Sellers<sup>7</sup>, A. S. Sengupta<sup>168</sup>, N. Sennett<sup>35</sup>, D. Sentenac<sup>28</sup>, V. Sequino<sup>14,29,30</sup>, A. Sergeev<sup>136</sup>, Y. Setyawati<sup>8,9</sup>, D. A. Shaddock<sup>21</sup>, T. Shaffer<sup>45</sup>, M. S. Shahriar<sup>59</sup>, M. B. Shaner<sup>111</sup>, L. Shao<sup>35</sup>, P. Sharma<sup>61</sup>, P. Shawhan<sup>76</sup>, H. Shen<sup>17</sup>, R. Shink<sup>169</sup>, D. H. Shoemaker<sup>12</sup>, D. M. Shoemaker<sup>77</sup>, S. ShyamSundar<sup>61</sup>, K. Siellez<sup>77</sup>, M. Sieniawska<sup>54</sup>, D. Sigg<sup>45</sup>, A. D. Silva<sup>13</sup>, L. P. Singer<sup>80</sup>, N. Singh<sup>74</sup>, A. Singhal<sup>14,31</sup>, A. M. Sintes<sup>99</sup>, S. Sitmukhambetov<sup>104</sup>, V. Skliris<sup>68</sup>, B. J. J. Slagmolen<sup>21</sup>, T. J. Slaven-Blair<sup>63</sup>, J. R. Smith<sup>26</sup>, R. J. E. Smith<sup>6</sup>, S. Somala<sup>170</sup>, E. J. Son<sup>139</sup>, B. Sorazu<sup>44</sup>, F. Sorrentino<sup>60</sup>, T. Souradeep<sup>3</sup>, E. Sowell<sup>84</sup>, A. P. Spencer<sup>44</sup>, A. K. Srivastava<sup>107</sup>, V. Srivastava<sup>42</sup>, K. Staats<sup>59</sup>, C. Stachie<sup>65</sup>, M. Standke<sup>8,9</sup>, D. A. Steer<sup>27</sup>, M. Steinke<sup>8,9</sup>, J. Steinlechner<sup>44,141</sup>, S. Steinlechner<sup>141</sup>, D. Steinmeyer<sup>8,9</sup>, S. P. Stevenson<sup>38</sup>, D. Stocks<sup>49</sup>, R. Stone<sup>104</sup>, D. J. Stops<sup>11</sup>, K. A. Strain<sup>44</sup>, G. Stratta<sup>72,73</sup>, S. E. Strigin<sup>62</sup>, A. Strunk<sup>45</sup>, R. Sturani<sup>171</sup>, A. L. Stuver<sup>172</sup>, V. Sudhir<sup>12</sup>, T. Z. Summerscales<sup>173</sup>, L. Sun<sup>1</sup>, S. Sunil<sup>107</sup>, J. Suresh<sup>3</sup>, P. J. Sutton<sup>68</sup>, B. L. Swinkels<sup>36</sup>, M. J. Szczepańczyk<sup>33</sup>, M. Tacca<sup>36</sup>, S. C. Tait<sup>44</sup>, C. Talbot<sup>6</sup>, D. Talukder<sup>70</sup>, D. B. Tanner<sup>48</sup>, M. Tápai<sup>123</sup>, A. Taracchini<sup>35</sup>, J. D. Tasson<sup>94</sup>, R. Taylor<sup>1</sup>, F. Thies<sup>8,9</sup>, M. Thomas<sup>7</sup>, P. Thomas<sup>45</sup>, S. R. Thondapu<sup>61</sup>, K. A. Thorne<sup>7</sup>, E. Thrane<sup>6</sup>, Shubhanshu Tiwari<sup>96,112</sup>, Srishti Tiwari<sup>124</sup>, V. Tiwari<sup>68</sup>, K. Toland<sup>44</sup>, M. Tonelli<sup>18,19</sup>, Z. Tornasi<sup>44</sup>, A. Torres-Forné<sup>174</sup>, C. I. Torrie<sup>1</sup>, D. Töyrä<sup>11</sup>, F. Travasso<sup>28,41</sup>, G. Traylor<sup>7</sup>, M. C. Tringali<sup>74</sup>, A. Trovato<sup>27</sup>, L. Trozzo<sup>19,175</sup>, R. Trudeau<sup>1</sup>, K. W. Tsang<sup>36</sup>, M. Tse<sup>12</sup>, R. Tso<sup>46</sup>, L. Tsukada<sup>82</sup>, D. Tsuna<sup>82</sup>, D. Tuyenbayev<sup>104</sup>, K. Ueno<sup>82</sup>, D. Ugolini<sup>176</sup>, C. S. Unnikrishnan<sup>124</sup>, A. L. Urban<sup>2</sup>, S. A. Usman<sup>68</sup>, H. Vahlbruch<sup>9</sup>, G. Vajente<sup>1</sup>, G. Valdes<sup>2</sup>, N. van Bakel<sup>36</sup>, M. van Beuzekom<sup>36</sup>, J. F. J. van den Brand<sup>36,75</sup>, C. Van Den Broeck<sup>36,177</sup>, D. C. Vander-Hyde<sup>42</sup>, J. V. van Heijningen<sup>63</sup>, L. van der Schaaf<sup>36</sup>, A. A. van Veggel<sup>44</sup>, M. Vardaro<sup>51,52</sup>, V. Varma<sup>46</sup>, S. Vass<sup>1</sup>, M. Vasúth<sup>47</sup>, A. Vecchio<sup>11</sup>, G. Vedovato<sup>52</sup>, J. Veitch<sup>44</sup>, P. J. Veitch<sup>55</sup>, K. Venkateswara<sup>166</sup>, G. Venugopalan<sup>1</sup>, D. Verkindt<sup>32</sup>, F. Vetrano<sup>72,73</sup>, A. Viceré<sup>72,73</sup>, A. D. Viets<sup>23</sup>, D. J. Vine<sup>167</sup>, J.-Y. Vinet<sup>65</sup>, S. Vitale<sup>12</sup>, T. Vo<sup>42</sup>, H. Vocca<sup>40,41</sup>, C. Vorvick<sup>45</sup>, S. P. Vyatchanin<sup>62</sup>, A. R. Wade<sup>1</sup>, L. E. Wade<sup>115</sup>, M. Wade<sup>115</sup>, R. Walet<sup>36</sup>, M. Walker<sup>26</sup>, L. Wallace<sup>1</sup>, S. Walsh<sup>23</sup>, G. Wang<sup>14,19</sup>, H. Wang<sup>11</sup>, J. Z. Wang<sup>126</sup>, W. H. Wang<sup>104</sup>, Y. F. Wang<sup>91</sup>, R. L. Ward<sup>21</sup>, Z. A. Warden<sup>33</sup>, J. Warner<sup>45</sup>, M. Was<sup>32</sup>, J. Watchi<sup>100</sup>, B. Weaver<sup>45</sup>, L.-W. Wei<sup>8,9</sup>, M. Weinert<sup>8,9</sup>, A. J. Weinstein<sup>1</sup>, R. Weiss<sup>12</sup>, F. Wellmann<sup>8,9</sup>, L. Wen<sup>63</sup>, E. K. Wessel<sup>17</sup>, P. Weßels<sup>8,9</sup>, J. W. Westhouse<sup>33</sup>, K. Wette<sup>21</sup>, J. T. Whelan<sup>58</sup>, B. F. Whiting<sup>48</sup>, C. Whittle<sup>12</sup>, D. M. Wilken<sup>8,9</sup>, D. Williams<sup>44</sup>, A. R. Williamson<sup>36,128</sup>, J. L. Willis<sup>1</sup>, B. Willke<sup>8,9</sup>, M. H. Wimmer<sup>8,9</sup>, W. Winkler<sup>8,9</sup>, C. C. Wipf<sup>1</sup>, H. Wittel<sup>8,9</sup>, G. Woan<sup>44</sup>, J. Woehler<sup>8,9</sup>, J. K. Wofford<sup>58</sup>, J. Worden<sup>45</sup>, J. L. Wright<sup>44</sup>, D. S. Wu<sup>8,9</sup>, D. M. Wysocki<sup>58</sup>, L. Xiao<sup>1</sup>, H. Yamamoto<sup>1</sup>, C. C. Yancey<sup>76</sup>, L. Yang<sup>114</sup>, M. J. Yap<sup>21</sup>, M. Yazback<sup>48</sup>, D. W. Yeeles<sup>68</sup>, Hang Yu<sup>12</sup>, Haocun Yu<sup>12</sup>, S. H. R. Yuen<sup>91</sup>, M. Yvert<sup>32</sup>, A. K. Zadrożny<sup>104,144</sup>, M. Zanolin<sup>33</sup>, T. Zelenova<sup>28</sup>, J.-P. Zendri<sup>52</sup>, M. Zevin<sup>59</sup>, J. Zhang<sup>63</sup>, L. Zhang<sup>1</sup>, T. Zhang<sup>44</sup>, C. Zhao<sup>63</sup>, M. Zhou<sup>59</sup>, Z. Zhou<sup>59</sup>, X. J. Zhu<sup>6</sup>, M. E. Zucker<sup>1,12</sup>, J. Zweigig<sup>1</sup>

The LIGO Scientific Collaboration and the Virgo Collaboration,

Z. Arzoumanian<sup>178</sup>, S. Bogdanov<sup>179</sup>, I. Cognard<sup>180,181</sup>, A. Corongiu<sup>182</sup>, T. Enoto<sup>183</sup>, P. Freire<sup>184</sup>, K. C. Gendreau<sup>178</sup>, L. Guillemot<sup>180,181</sup>, A. K. Harding<sup>185</sup>, F. Jankowski<sup>186</sup>, M. J. Keith<sup>186</sup>, M. Kerr<sup>187</sup>, A. Lyne<sup>186</sup>, J. Palfreyman<sup>188</sup>, A. Possenti<sup>182,189</sup>, A. Ridolfi<sup>184</sup>, B. Stappers<sup>186</sup>, G. Theureau<sup>180,181,190</sup>, and P. Weltevrede<sup>186</sup>

<sup>1</sup> LIGO, California Institute of Technology, Pasadena, CA 91125, USA

<sup>2</sup> Louisiana State University, Baton Rouge, LA 70803, USA

<sup>3</sup> Inter-University Centre for Astronomy and Astrophysics, Pune 411007, India

<sup>4</sup> Università di Salerno, Fisciano, I-84084 Salerno, Italy

<sup>5</sup> INFN, Sezione di Napoli, Complesso Universitario di Monte S. Angelo, I-80126 Napoli, Italy

<sup>6</sup> OzGrav, School of Physics & Astronomy, Monash University, Clayton 3800, Victoria, Australia

<sup>7</sup> LIGO Livingston Observatory, Livingston, LA 70754, USA

<sup>8</sup> Max Planck Institute for Gravitational Physics (Albert Einstein Institute), D-30167 Hannover, Germany

<sup>9</sup> Leibniz Universität Hannover, D-30167 Hannover, Germany

<sup>10</sup> University of Cambridge, Cambridge CB2 1TN, UK

<sup>11</sup> University of Birmingham, Birmingham B15 2TT, UK

<sup>12</sup> LIGO, Massachusetts Institute of Technology, Cambridge, MA 02139, USA

<sup>13</sup> Instituto Nacional de Pesquisas Espaciais, 12227-010 São José dos Campos, São Paulo, Brazil

<sup>14</sup> Gran Sasso Science Institute (GSSI), I-67100 L'Aquila, Italy

<sup>15</sup> INFN, Laboratori Nazionali del Gran Sasso, I-67100 Assergi, Italy

<sup>16</sup> International Centre for Theoretical Sciences, Tata Institute of Fundamental Research, Bengaluru 560089, India

<sup>17</sup> NCSA, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA

<sup>18</sup> Università di Pisa, I-56127 Pisa, Italy

<sup>19</sup> INFN, Sezione di Pisa, I-56127 Pisa, Italy

<sup>20</sup> Departamento de Astronomía y Astrofísica, Universitat de València, E-46100 Burjassot, València, Spain

<sup>21</sup> OzGrav, Australian National University, Canberra, Australian Capital Territory 0200, Australia

<sup>22</sup> Laboratoire des Matériaux Avancés (LMA), CNRS/IN2P3, F-69622 Villeurbanne, France

<sup>23</sup> University of Wisconsin-Milwaukee, Milwaukee, WI 53201, USA

<sup>24</sup> SUPA, University of Strathclyde, Glasgow G1 1XQ, UK

<sup>25</sup> LAL, Univ. Paris-Sud, CNRS/IN2P3, Université Paris-Saclay, F-91898 Orsay, France

<sup>26</sup> California State University Fullerton, Fullerton, CA 92831, USA

<sup>27</sup> APC, AstroParticule et Cosmologie, Université Paris Diderot, CNRS/IN2P3, CEA/Irfu, Observatoire de Paris, Sorbonne Paris Cité, F-75205 Paris Cedex 13, France

<sup>28</sup> European Gravitational Observatory (EGO), I-56021 Cascina, Pisa, Italy

<sup>29</sup> Università di Roma Tor Vergata, I-00133 Roma, Italy

<sup>30</sup> INFN, Sezione di Roma Tor Vergata, I-00133 Roma, Italy

<sup>31</sup> INFN, Sezione di Roma, I-00185 Roma, Italy

<sup>32</sup> Laboratoire d'Annecy de Physique des Particules (LAPP), Univ. Grenoble Alpes, Université Savoie Mont Blanc, CNRS/IN2P3, F-74941 Annecy, France

<sup>33</sup> Embry-Riddle Aeronautical University, Prescott, AZ 86301, USA

- <sup>34</sup> Montclair State University, Montclair, NJ 07043, USA
- <sup>35</sup> Max Planck Institute for Gravitational Physics (Albert Einstein Institute), D-14476 Potsdam-Golm, Germany
- <sup>36</sup> Nikhef, Science Park 105, 1098 XG Amsterdam, The Netherlands
- <sup>37</sup> Korea Institute of Science and Technology Information, Daejeon 34141, Republic of Korea
- <sup>38</sup> OzGrav, Swinburne University of Technology, Hawthorn VIC 3122, Australia
- <sup>39</sup> West Virginia University, Morgantown, WV 26506, USA
- <sup>40</sup> Università di Perugia, I-06123 Perugia, Italy
- <sup>41</sup> INFN, Sezione di Perugia, I-06123 Perugia, Italy
- <sup>42</sup> Syracuse University, Syracuse, NY 13244, USA
- <sup>43</sup> University of Minnesota, Minneapolis, MN 55455, USA
- <sup>44</sup> SUPA, University of Glasgow, Glasgow G12 8QQ, UK
- <sup>45</sup> LIGO Hanford Observatory, Richland, WA 99352, USA
- <sup>46</sup> Caltech CaRT, Pasadena, CA 91125, USA
- <sup>47</sup> Wigner RCP, RMKI, H-1121 Budapest, Konkoly Thege Miklós út 29-33, Hungary
- <sup>48</sup> University of Florida, Gainesville, FL 32611, USA
- <sup>49</sup> Stanford University, Stanford, CA 94305, USA
- <sup>50</sup> Università di Camerino, Dipartimento di Fisica, I-62032 Camerino, Italy
- <sup>51</sup> Università di Padova, Dipartimento di Fisica e Astronomia, I-35131 Padova, Italy
- <sup>52</sup> INFN, Sezione di Padova, I-35131 Padova, Italy
- <sup>53</sup> Montana State University, Bozeman, MT 59717, USA
- <sup>54</sup> Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences, 00-716, Warsaw, Poland
- <sup>55</sup> OzGrav, University of Adelaide, Adelaide, South Australia 5005, Australia
- <sup>56</sup> Theoretisch-Physikalisches Institut, Friedrich-Schiller-Universität Jena, D-07743 Jena, Germany
- <sup>57</sup> INFN, Sezione di Milano Bicocca, Gruppo Collegato di Parma, I-43124 Parma, Italy
- <sup>58</sup> Rochester Institute of Technology, Rochester, NY 14623, USA
- <sup>59</sup> Center for Interdisciplinary Exploration & Research in Astrophysics (CIERA), Northwestern University, Evanston, IL 60208, USA
- <sup>60</sup> INFN, Sezione di Genova, I-16146 Genova, Italy
- <sup>61</sup> RRCAT, Indore, Madhya Pradesh 452013, India
- <sup>62</sup> Faculty of Physics, Lomonosov Moscow State University, Moscow 119991, Russia
- <sup>63</sup> OzGrav, University of Western Australia, Crawley, Western Australia 6009, Australia
- <sup>64</sup> Department of Astrophysics/IMAPP, Radboud University Nijmegen, P.O. Box 9010, 6500 GL Nijmegen, The Netherlands
- <sup>65</sup> Artemis, Université Côte d'Azur, Observatoire Côte d'Azur, CNRS, CS 34229, F-06304 Nice Cedex 4, France
- <sup>66</sup> Physik-Institut, University of Zurich, Winterthurerstrasse 190, 8057 Zurich, Switzerland
- <sup>67</sup> Univ Rennes, CNRS, Institut FOTON—UMR6082, F-3500 Rennes, France
- <sup>68</sup> Cardiff University, Cardiff CF24 3AA, UK
- <sup>69</sup> Washington State University, Pullman, WA 99164, USA
- <sup>70</sup> University of Oregon, Eugene, OR 97403, USA
- <sup>71</sup> Laboratoire Kastler Brossel, Sorbonne Université, CNRS, ENS-Université PSL, Collège de France, F-75005 Paris, France
- <sup>72</sup> Università degli Studi di Urbino “Carlo Bo,” I-61029 Urbino, Italy
- <sup>73</sup> INFN, Sezione di Firenze, I-50019 Sesto Fiorentino, Firenze, Italy
- <sup>74</sup> Astronomical Observatory Warsaw University, 00-478 Warsaw, Poland
- <sup>75</sup> VU University Amsterdam, 1081 HV Amsterdam, The Netherlands
- <sup>76</sup> University of Maryland, College Park, MD 20742, USA
- <sup>77</sup> School of Physics, Georgia Institute of Technology, Atlanta, GA 30332, USA
- <sup>78</sup> Université Claude Bernard Lyon 1, F-69622 Villeurbanne, France
- <sup>79</sup> Università di Napoli “Federico II,” Complesso Universitario di Monte S. Angelo, I-80126 Napoli, Italy
- <sup>80</sup> NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA
- <sup>81</sup> Dipartimento di Fisica, Università degli Studi di Genova, I-16146 Genova, Italy
- <sup>82</sup> RESCEU, University of Tokyo, Tokyo, 113-0033, Japan
- <sup>83</sup> Tsinghua University, Beijing 100084, People's Republic of China
- <sup>84</sup> Texas Tech University, Lubbock, TX 79409, USA
- <sup>85</sup> The University of Mississippi, University, MS 38677, USA
- <sup>86</sup> Museo Storico della Fisica e Centro Studi e Ricerche “Enrico Fermi,” I-00184 Roma, Italy
- <sup>87</sup> The Pennsylvania State University, University Park, PA 16802, USA
- <sup>88</sup> National Tsing Hua University, Hsinchu City, 30013 Taiwan, People's Republic of China
- <sup>89</sup> Charles Sturt University, Wagga Wagga, New South Wales 2678, Australia
- <sup>90</sup> University of Chicago, Chicago, IL 60637, USA
- <sup>91</sup> The Chinese University of Hong Kong, Shatin, NT, Hong Kong
- <sup>92</sup> Seoul National University, Seoul 08826, Republic of Korea
- <sup>93</sup> Pusan National University, Busan 46241, Republic of Korea
- <sup>94</sup> Carleton College, Northfield, MN 55057, USA
- <sup>95</sup> INAF, Osservatorio Astronomico di Padova, I-35122 Padova, Italy
- <sup>96</sup> INFN, Trento Institute for Fundamental Physics and Applications, I-38123 Povo, Trento, Italy
- <sup>97</sup> OzGrav, University of Melbourne, Parkville, Victoria 3010, Australia
- <sup>98</sup> Columbia University, New York, NY 10027, USA
- <sup>99</sup> Universitat de les Illes Balears, IAC3—IEEC, E-07122 Palma de Mallorca, Spain
- <sup>100</sup> Université Libre de Bruxelles, Brussels B-1050, Belgium
- <sup>101</sup> Sonoma State University, Rohnert Park, CA 94928, USA
- <sup>102</sup> Departamento de Matemáticas, Universitat de València, E-46100 Burjassot, València, Spain
- <sup>103</sup> University of Rhode Island, Kingston, RI 02881, USA
- <sup>104</sup> The University of Texas Rio Grande Valley, Brownsville, TX 78520, USA
- <sup>105</sup> Bellevue College, Bellevue, WA 98007, USA
- <sup>106</sup> MTA-ELTE Astrophysics Research Group, Institute of Physics, Eötvös University, Budapest 1117, Hungary
- <sup>107</sup> Institute for Plasma Research, Bhat, Gandhinagar 382428, India
- <sup>108</sup> The University of Sheffield, Sheffield S10 2TN, UK
- <sup>109</sup> IGFAE, Campus Sur, Universidade de Santiago de Compostela, E-15782, Spain

- <sup>110</sup> Dipartimento di Scienze Matematiche, Fisiche e Informatiche, Università di Parma, I-43124 Parma, Italy
- <sup>111</sup> California State University, Los Angeles, 5151 State University Dr., Los Angeles, CA 90032, USA
- <sup>112</sup> Università di Trento, Dipartimento di Fisica, I-38123 Povo, Trento, Italy
- <sup>113</sup> Università di Roma “La Sapienza,” I-00185 Roma, Italy
- <sup>114</sup> Colorado State University, Fort Collins, CO 80523, USA
- <sup>115</sup> Kenyon College, Gambier, OH 43022, USA
- <sup>116</sup> Christopher Newport University, Newport News, VA 23606, USA
- <sup>117</sup> National Astronomical Observatory of Japan, 2-21-1 Osawa, Mitaka, Tokyo 181-8588, Japan
- <sup>118</sup> Canadian Institute for Theoretical Astrophysics, University of Toronto, Toronto, ON M5S 3H8, Canada
- <sup>119</sup> Observatori Astronòmic, Universitat de València, E-46980 Paterna, València, Spain
- <sup>120</sup> School of Mathematics, University of Edinburgh, Edinburgh EH9 3FD, UK
- <sup>121</sup> Institute of Advanced Research, Gandhinagar 382426, India
- <sup>122</sup> Indian Institute of Technology Bombay, Powai, Mumbai 400 076, India
- <sup>123</sup> University of Szeged, Dóm tér 9, Szeged 6720, Hungary
- <sup>124</sup> Tata Institute of Fundamental Research, Mumbai 400005, India
- <sup>125</sup> INAF, Osservatorio Astronomico di Capodimonte, I-80131, Napoli, Italy
- <sup>126</sup> University of Michigan, Ann Arbor, MI 48109, USA
- <sup>127</sup> American University, Washington, DC 20016, USA
- <sup>128</sup> GRAPPA, Anton Pannekoek Institute for Astronomy and Institute of High-Energy Physics, University of Amsterdam, Science Park 904, 1098 XH Amsterdam, The Netherlands
- <sup>129</sup> Delta Institute for Theoretical Physics, Science Park 904, 1090 GL Amsterdam, The Netherlands
- <sup>130</sup> Department of Physics and Astronomy, Haverford College, 370 Lancaster Avenue, Haverford, PA 19041, USA
- <sup>131</sup> Directorate of Construction, Services & Estate Management, Mumbai 400094, India
- <sup>132</sup> University of Białystok, 15-424 Białystok, Poland
- <sup>133</sup> King’s College London, University of London, London WC2R 2LS, UK
- <sup>134</sup> University of Southampton, Southampton SO17 1BJ, UK
- <sup>135</sup> University of Washington Bothell, Bothell, WA 98011, USA
- <sup>136</sup> Institute of Applied Physics, Nizhny Novgorod, 603950, Russia
- <sup>137</sup> Ewha Womans University, Seoul 03760, Republic of Korea
- <sup>138</sup> Inje University Gimhae, South Gyeongsang 50834, Republic of Korea
- <sup>139</sup> National Institute for Mathematical Sciences, Daejeon 34047, Republic of Korea
- <sup>140</sup> Ulsan National Institute of Science and Technology, Ulsan 44919, Republic of Korea
- <sup>141</sup> Universität Hamburg, D-22761 Hamburg, Germany
- <sup>142</sup> Maastricht University, P.O. Box 616, 6200 MD Maastricht, The Netherlands
- <sup>143</sup> Chennai Mathematical Institute, Chennai 603103, India
- <sup>144</sup> NCBJ, 05-400 Świerk-Otwock, Poland
- <sup>145</sup> Institute of Mathematics, Polish Academy of Sciences, 00656 Warsaw, Poland
- <sup>146</sup> Cornell University, Ithaca, NY 14850, USA
- <sup>147</sup> Hillsdale College, Hillsdale, MI 49242, USA
- <sup>148</sup> Hanyang University, Seoul 04763, Republic of Korea
- <sup>149</sup> Korea Astronomy and Space Science Institute, Daejeon 34055, Republic of Korea
- <sup>150</sup> NASA Marshall Space Flight Center, Huntsville, AL 35811, USA
- <sup>151</sup> Dipartimento di Matematica e Fisica, Università degli Studi Roma Tre, I-00146 Roma, Italy
- <sup>152</sup> INFN, Sezione di Roma Tre, I-00146 Roma, Italy
- <sup>153</sup> ESPCI, CNRS, F-75005 Paris, France
- <sup>154</sup> University of Portsmouth, Portsmouth, PO1 3FX, UK
- <sup>155</sup> Southern University and A&M College, Baton Rouge, LA 70813, USA
- <sup>156</sup> College of William and Mary, Williamsburg, VA 23187, USA
- <sup>157</sup> Centre Scientifique de Monaco, 8 quai Antoine 1er, MC-98000, Monaco
- <sup>158</sup> Indian Institute of Technology Madras, Chennai 600036, India
- <sup>159</sup> INFN Sezione di Torino, Via P. Giuria 1, I-10125 Torino, Italy
- <sup>160</sup> Institut des Hautes Etudes Scientifiques, F-91440 Bures-sur-Yvette, France
- <sup>161</sup> IISER-Kolkata, Mohanpur, West Bengal 741252, India
- <sup>162</sup> Whitman College, 345 Boyer Avenue, Walla Walla, WA 99362, USA
- <sup>163</sup> Université de Lyon, F-69361 Lyon, France
- <sup>164</sup> Hobart and William Smith Colleges, Geneva, NY 14456, USA
- <sup>165</sup> Janusz Gil Institute of Astronomy, University of Zielona Góra, 65-265 Zielona Góra, Poland
- <sup>166</sup> University of Washington, Seattle, WA 98195, USA
- <sup>167</sup> SUPA, University of the West of Scotland, Paisley PA1 2BE, UK
- <sup>168</sup> Indian Institute of Technology, Gandhinagar Ahmedabad Gujarat 382424, India
- <sup>169</sup> Université de Montréal/Polytechnique, Montreal, QC H3T 1J4, Canada
- <sup>170</sup> Indian Institute of Technology Hyderabad, Sangareddy, Khandi, Telangana 502285, India
- <sup>171</sup> International Institute of Physics, Universidade Federal do Rio Grande do Norte, Natal RN 59078-970, Brazil
- <sup>172</sup> Villanova University, 800 Lancaster Ave., Villanova, PA 19085, USA
- <sup>173</sup> Andrews University, Berrien Springs, MI 49104, USA
- <sup>174</sup> Max Planck Institute for Gravitationalphysik (Albert Einstein Institute), D-14476 Potsdam-Golm, Germany
- <sup>175</sup> Università di Siena, I-53100 Siena, Italy
- <sup>176</sup> Trinity University, San Antonio, TX 78212, USA
- <sup>177</sup> Van Swinderen Institute for Particle Physics and Gravity, University of Groningen, Nijenborgh 4, 9747 AG Groningen, The Netherlands
- <sup>178</sup> X-Ray Astrophysics Laboratory, NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA
- <sup>179</sup> Columbia Astrophysics Laboratory, Columbia University, 550 West 120th Street, New York, NY, 10027, USA
- <sup>180</sup> Laboratoire de Physique et Chimie de l’Environnement et de l’Espace—Université d’Orléans/CNRS, F-45071 Orléans Cedex 02, France
- <sup>181</sup> Station de Radioastronomie de Nançay, Observatoire de Paris, CNRS/INSU, F-18330 Nançay, France
- <sup>182</sup> INAF—Osservatorio Astronomico di Cagliari, via della Scienza 5, I-09047 Selargius, Italy
- <sup>183</sup> Hakubi Center for Advanced Research and Department of Astronomy, Kyoto University, Kyoto 606-8302, Japan
- <sup>184</sup> Max-Planck-Institut für Radioastronomie, Auf dem Hügel 69, D-53121 Bonn, Germany

<sup>185</sup> Astrophysics Science Division, NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA

<sup>186</sup> Jodrell Bank Centre for Astrophysics, School of Physics and Astronomy, University of Manchester, Manchester, M13 9PL, UK

<sup>187</sup> Space Science Division, Naval Research Laboratory, Washington, DC 20375-5352, USA

<sup>188</sup> Department of Physical Sciences, University of Tasmania, Private Bag 37, Hobart, Tasmania 7001, Australia

<sup>189</sup> Università di Cagliari, Dipartimento di Fisica, I-09042, Monserrato, Italy

<sup>190</sup> LUTH, Observatoire de Paris, PSL Research University, CNRS, Université Paris Diderot, Sorbonne Paris Cité, F-92195 Meudon, France

*Received 2019 July 12; published 2019 September 4*

*Supporting material:* machine-readable table

Due to an error at the publisher, in the published article the number of pulsars presented in the paper is incorrect in multiple places throughout the text. Specifically, “222” pulsars should be “221.” Additionally, the number of pulsars for which we have EM observations that fully overlap with O1 and O2 changes from “168” to “167.” Elsewhere, in the machine-readable table of Table 1 and in Table 2, the row corresponding to pulsar J0952-0607 should be excised as well. Finally, in the caption for Table 2 the number of pulsars changes from “188” to “187.”

IOP Publishing sincerely regrets this error.

---

<sup>191</sup> Deceased, 2018 February.

<sup>192</sup> Deceased, 2017 November.

<sup>193</sup> Deceased, 2018 July.

**Table 1**  
Limits on Gravitational-wave Amplitude, and Other Derived Quantities, for 34 High-value Pulsars from the Three Analysis Methods

Pulsar Name (J2000)	$f_{\text{rot}}$ (Hz)	$\dot{P}_{\text{rot}}$ ( $\text{s s}^{-2}$ )	Distance (kpc)	$h_0^{\text{sd}}$	Analysis Method	$C_{21}^{95\%}$	$C_{22}^{95\%}$	$h_0^{95\%}$	$Q_{22}^{95\%}$ ( $\text{kg m}^2$ )	$\epsilon^{95\%}$	$h_0^{95\%}/h_0^{\text{sd}}$	Statistic <sup>a</sup> $l=2, m=1, 2$	Statistic <sup>b</sup> $l=2, m=2$		
J0030+0451	205.5	$1.1 \times 10^{-20}$	0.33 (a)	$3.7 \times 10^{-27}$	Bayesian	$1.7 \times 10^{-26}$	$5.9 \times 10^{-27}$	$1.3 \times 10^{-26}$	$1.8 \times 10^{30}$	$2.3 \times 10^{-8}$	3.4	-3.8	-2.1		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...	...	...
					5n-vector	$1.3 \times 10^{-26}$	...	$1.7 \times 10^{-26}$	$2.3 \times 10^{30}$	$3.0 \times 10^{-8}$	4.5	0.72	0.61		
J0117+5914 <sup>c</sup>	9.9	$5.9 \times 10^{-15}$	1.7 (b)	$1.1 \times 10^{-25}$	Bayesian	...	...	$3.8 \times 10^{-25}$	$1.3 \times 10^{35}$	$1.7 \times 10^{-3}$	3.5	-2.4	-1.9		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...	...	
					5n-vector	...	...	$2.6 \times 10^{-25}$	$8.6 \times 10^{34}$	$1.1 \times 10^{-3}$	2.4	...	0.31		
J0205+6449 <sup>c</sup>	15.2	$1.9 \times 10^{-13}$	2.00 (c)	$6.9 \times 10^{-25}$	Bayesian	$1.8(1.5) \times 10^{-24}$	$2.4(3.6) \times 10^{-26}$	$4.9(7.1) \times 10^{-26}$	$0.8(1.1) \times 10^{33}$	$1.0(1.5) \times 10^{-4}$	0.071(0.1)	-4.8(-4.6)	-2.7(-2.4)		
					$\mathcal{F}$ -statistic	$2.2 \times 10^{-24}$	$4.5 \times 10^{-26}$	$8.8 \times 10^{-26}$	$1.4 \times 10^{34}$	$1.8 \times 10^{-4}$	0.13	0.71	0.26		
					5n-vector	...	...	$2.9(4.5) \times 10^{-26}$	$4.6(7.1) \times 10^{33}$	$5.9(9.2) \times 10^{-5}$	0.042(0.065)	...	0.41		
J0534+2200 <sup>c</sup>	29.7	$4.2 \times 10^{-13}$	2.00	$1.4 \times 10^{-24}$	Bayesian	$7.9(5.8) \times 10^{-26}$	$9.1(7.3) \times 10^{-27}$	$1.9(1.5) \times 10^{-26}$	$7.7(6.0) \times 10^{32}$	$1.0(0.8) \times 10^{-5}$	0.013(0.01)	-5.1(-5.2)	-2.6(-2.7)		
					$\mathcal{F}$ -statistic	$1.6(1.1) \times 10^{-25}$	$1.1(1.1) \times 10^{-26}$	$2.2(1.3) \times 10^{-26}$	$9.1(5.4) \times 10^{32}$	$1.2(0.7) \times 10^{-5}$	0.015(0.0091)	0.32(0.18)	0.65(0.87)		
					5n-vector	$1.7(1.3) \times 10^{-25}$	...	$2.9(2.9) \times 10^{-26}$	$1.2(1.2) \times 10^{33}$	$1.6(1.6) \times 10^{-5}$	0.02(0.02)	0.70	0.45		
J0711-6830 <sup>c</sup>	182.1	$1.4 \times 10^{-20}$	0.11 (b)	$1.2 \times 10^{-26}$	Bayesian	$2.6 \times 10^{-26}$	$7.0 \times 10^{-27}$	$1.5 \times 10^{-26}$	$9.3 \times 10^{29}$	$1.2 \times 10^{-8}$	1.3	-3.1	-1.9		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...		
					5n-vector	$1.2 \times 10^{-26}$	...	$1.5 \times 10^{-26}$	$9.1 \times 10^{29}$	$1.2 \times 10^{-8}$	1.3	0.79	0.39		
J0835-4510 <sup>c</sup>	11.2	$1.2 \times 10^{-13}$	0.29 (j)	$3.3 \times 10^{-24}$	Bayesian	$1.4(1.1) \times 10^{-23}$	$6.7(6.2) \times 10^{-26}$	$1.4(1.2) \times 10^{-25}$	$5.9(5.2) \times 10^{33}$	$7.6(6.7) \times 10^{-5}$	0.042(0.037)	-4.2(-4.4)	-2.5(-2.8)		
					$\mathcal{F}$ -statistic	$1.3(1.1) \times 10^{-23}$	$1.1(0.9) \times 10^{-25}$	$2.6(2.0) \times 10^{-25}$	$1.1(0.8) \times 10^{34}$	$1.4(1.1) \times 10^{-4}$	0.078(0.06)	0.75(0.75)	0.75(0.75)		
					5n-vector	...	...	$2.3(2.4) \times 10^{-25}$	$9.7(9.9) \times 10^{33}$	$1.3(1.3) \times 10^{-4}$	0.07(0.071)	...	0.41		
J0940-5428	11.4	$3.3 \times 10^{-14}$	0.38 (b)	$1.3 \times 10^{-24}$	Bayesian	$1.6 \times 10^{-23}$	$7.7 \times 10^{-26}$	$1.6 \times 10^{-25}$	$8.7 \times 10^{33}$	$1.1 \times 10^{-4}$	0.13	-3.7	-2.3		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...		
					5n-vector	...	...	$1.7 \times 10^{-25}$	$8.9 \times 10^{33}$	$1.2 \times 10^{-4}$	0.13	...	0.70		
J1028-5819	10.9	$1.6 \times 10^{-14}$	1.42 (b)	$2.4 \times 10^{-25}$	Bayesian	$2.7 \times 10^{-23}$	$9.1 \times 10^{-26}$	$2.3 \times 10^{-25}$	$5.1 \times 10^{34}$	$6.6 \times 10^{-4}$	0.98	-3.5	-2.2		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...		
					5n-vector	...	...	$1.9 \times 10^{-25}$	$4.1 \times 10^{34}$	$5.3 \times 10^{-4}$	0.8	...	0.40		
J1105-6107	15.8	$1.6 \times 10^{-14}$	2.36 (b)	$1.7 \times 10^{-25}$	Bayesian	$1.7 \times 10^{-24}$	$2.0 \times 10^{-26}$	$3.9 \times 10^{-26}$	$6.7 \times 10^{33}$	$8.7 \times 10^{-5}$	0.23	-4.6	-2.8		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...		
					5n-vector	...	...	$2.7 \times 10^{-26}$	$4.6 \times 10^{33}$	$6.0 \times 10^{-5}$	0.16	...	0.93		
J1112-6103	15.4	$3.1 \times 10^{-14}$	4.50 (b)	$1.2 \times 10^{-25}$	Bayesian	$3.4 \times 10^{-24}$	$2.5 \times 10^{-26}$	$5.8 \times 10^{-26}$	$2.0 \times 10^{34}$	$2.6 \times 10^{-4}$	0.47	-4.2	-3.4		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...		
					5n-vector	...	...	$3.6 \times 10^{-26}$	$1.2 \times 10^{34}$	$1.6 \times 10^{-4}$	0.29	...	0.76		
J1410-6132	20.0	$3.2 \times 10^{-14}$	13.51 (b)	$4.8 \times 10^{-26}$	Bayesian	$4.9 \times 10^{-25}$	$9.4 \times 10^{-27}$	$2.1 \times 10^{-26}$	$1.3 \times 10^{34}$	$1.7 \times 10^{-4}$	0.44	-5.7	-3.0		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...		
					5n-vector	$5.4 \times 10^{-25}$	...	$2.6 \times 10^{-26}$	$1.6 \times 10^{34}$	$2.1 \times 10^{-4}$	0.55	...	0.88		
J1412+7922	16.9	$3.3 \times 10^{-15}$	2.00 (o)	$9.5 \times 10^{-26}$	Bayesian	$1.8 \times 10^{-24}$	$3.4 \times 10^{-26}$	$7.5 \times 10^{-26}$	$9.6 \times 10^{33}$	$1.2 \times 10^{-4}$	0.78	-4.9	-2.1		
					$\mathcal{F}$ -statistic	$2.3 \times 10^{-24}$	$2.2 \times 10^{-26}$	$6.2 \times 10^{-26}$	$7.9 \times 10^{33}$	$1.0 \times 10^{-4}$	0.65	0.24	0.39		
					5n-vector	...	...	$3.6 \times 10^{-26}$	$4.6 \times 10^{33}$	$6.0 \times 10^{-5}$	0.38	...	0.80		
J1420-6048	14.8	$8.3 \times 10^{-14}$	5.63 (b)	$1.6 \times 10^{-25}$	Bayesian	$2.1 \times 10^{-24}$	$1.9 \times 10^{-26}$	$4.1 \times 10^{-26}$	$1.9 \times 10^{34}$	$2.5 \times 10^{-4}$	0.26	-6.2	-2.8		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...		
					5n-vector	...	...	$7.6 \times 10^{-26}$	$3.6 \times 10^{34}$	$4.7 \times 10^{-4}$	0.48	...	0.52		
J1509-5850	11.2	$9.2 \times 10^{-15}$	3.37 (b)	$7.7 \times 10^{-26}$	Bayesian	$1.7 \times 10^{-23}$	$1.5 \times 10^{-25}$	$5.4 \times 10^{-25}$	$2.6 \times 10^{35}$	$3.4 \times 10^{-3}$	7.1	-3.5	-2.0		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...		
					5n-vector	...	...	$2.1 \times 10^{-25}$	$1.0 \times 10^{35}$	$1.3 \times 10^{-3}$	2.7	...	0.72		
J1531-5610	11.9	$1.4 \times 10^{-14}$	2.84 (b)	$1.1 \times 10^{-25}$	Bayesian	$7.9 \times 10^{-24}$	$5.5 \times 10^{-26}$	$1.2 \times 10^{-25}$	$4.4 \times 10^{34}$	$5.6 \times 10^{-4}$	1	-4.2	-2.4		
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...		
					5n-vector	...	...	$1.4 \times 10^{-25}$	$5.3 \times 10^{34}$	$6.8 \times 10^{-4}$	1.2	...	0.31		

**Table 1**  
(Continued)

Pulsar Name (J2000)	$f_{\text{rot}}$ (Hz)	$\dot{P}_{\text{rot}}$ (s s <sup>-1</sup> )	Distance (kpc)	$h_0^{\text{sd}}$	Analysis Method	$C_{21}^{95\%}$	$C_{22}^{95\%}$	$h_0^{95\%}$	$Q_{22}^{95\%}$ (kg m <sup>2</sup> )	$\epsilon^{95\%}$	$h_0^{95\%}/h_0^{\text{sd}}$	Statistic <sup>a</sup> $l=2, m=1, 2$	Statistic <sup>b</sup> $l=2, m=2$
J1718–3825	13.4	$1.3 \times 10^{-14}$	3.49 (b)	$9.7 \times 10^{-26}$	Bayesian	$3.2 \times 10^{-24}$	$4.2 \times 10^{-26}$	$8.7 \times 10^{-26}$	$3.1 \times 10^{34}$	$4.0 \times 10^{-4}$	0.9	–5.6	–2.4
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	...	...	$6.5 \times 10^{-26}$	$2.3 \times 10^{34}$	$3.0 \times 10^{-4}$	0.67	...	0.67
J1809–1917	12.1	$2.6 \times 10^{-14}$	3.27 (b)	$1.4 \times 10^{-25}$	Bayesian	$6.6 \times 10^{-24}$	$4.9 \times 10^{-26}$	$9.8 \times 10^{-26}$	$4.0 \times 10^{34}$	$5.2 \times 10^{-4}$	0.72	–4.4	–2.5
					$\mathcal{F}$ -statistic	$6.2 \times 10^{-24}$	$6.2 \times 10^{-26}$	$7.3 \times 10^{-26}$	$3.0 \times 10^{34}$	$3.9 \times 10^{-4}$	0.53	0.76	0.76
					5n-vector	...	...	$1.1 \times 10^{-25}$	$4.3 \times 10^{34}$	$5.6 \times 10^{-4}$	0.77	...	0.19
J1813–1246	20.8	$1.8 \times 10^{-14}$	2.50 (z)	$1.9 \times 10^{-25}$	Bayesian	$3.9 \times 10^{-25}$	$2.2 \times 10^{-26}$	$4.7 \times 10^{-26}$	$5.0 \times 10^{33}$	$6.4 \times 10^{-5}$	0.24	–4.2	–2.2
					$\mathcal{F}$ -statistic	$3.8 \times 10^{-25}$	$1.0 \times 10^{-26}$	$3.3 \times 10^{-26}$	$3.5 \times 10^{33}$	$4.5 \times 10^{-5}$	0.17	0.08	0.73
					5n-vector	$1.0 \times 10^{-24}$	...	$4.5 \times 10^{-26}$	$4.7 \times 10^{33}$	$6.1 \times 10^{-5}$	0.23	...	0.22
J1826–1256	9.1	$1.2 \times 10^{-13}$	1.39 (cc)	$6.1 \times 10^{-25}$	Bayesian	...	...	$6.2 \times 10^{-25}$	$1.9 \times 10^{35}$	$2.5 \times 10^{-3}$	1	–2.0	–2.1
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	...	...	$4.7 \times 10^{-25}$	$1.5 \times 10^{35}$	$1.9 \times 10^{-3}$	0.77	...	...
J1828–1101	13.9	$1.5 \times 10^{-14}$	4.77 (b)	$7.7 \times 10^{-26}$	Bayesian	$7.5 \times 10^{-24}$	$4.6 \times 10^{-26}$	$7.2 \times 10^{-26}$	$3.3 \times 10^{34}$	$4.2 \times 10^{-4}$	0.94	–4.6	–2.5
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	...	...	$5.5 \times 10^{-26}$	$2.5 \times 10^{34}$	$3.2 \times 10^{-4}$	0.71	...	0.13
J1831–0952	14.9	$8.3 \times 10^{-15}$	3.68 (b)	$7.7 \times 10^{-26}$	Bayesian	$3.2 \times 10^{-24}$	$3.1 \times 10^{-26}$	$6.9 \times 10^{-26}$	$2.1 \times 10^{34}$	$2.7 \times 10^{-4}$	0.9	–5.0	–2.4
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	...	...	$4.3 \times 10^{-26}$	$1.3 \times 10^{34}$	$1.7 \times 10^{-4}$	0.56	...	0.75
J1833–0827 <sup>c</sup>	11.7	$9.2 \times 10^{-15}$	4.50 (m)	$5.9 \times 10^{-26}$	Bayesian	$1.9 \times 10^{-23}$	$8.8 \times 10^{-26}$	$3.3 \times 10^{-25}$	$2.0 \times 10^{35}$	$2.6 \times 10^{-3}$	5.6	–3.3	–1.9
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	...	...	$1.4 \times 10^{-25}$	$8.3 \times 10^{34}$	$1.1 \times 10^{-3}$	2.3	...	0.94
J1837–0604	10.4	$4.5 \times 10^{-14}$	4.77 (b)	$1.2 \times 10^{-25}$	Bayesian	$4.0 \times 10^{-23}$	$1.1 \times 10^{-25}$	$2.4 \times 10^{-25}$	$1.9 \times 10^{35}$	$2.5 \times 10^{-3}$	2	–3.7	–2.3
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	...	...	$1.6 \times 10^{-25}$	$1.3 \times 10^{35}$	$1.6 \times 10^{-3}$	1.4	...	0.38
J1849–0001	26.0	$1.4 \times 10^{-14}$	7.00 (dd)	$7.0 \times 10^{-26}$	Bayesian	$7.1 \times 10^{-25}$	$7.9 \times 10^{-27}$	$1.9 \times 10^{-26}$	$3.7 \times 10^{33}$	$4.7 \times 10^{-5}$	0.28	–3.4	–2.6
					$\mathcal{F}$ -statistic	$6.8 \times 10^{-25}$	$9.1 \times 10^{-27}$	$2.8 \times 10^{-26}$	$5.3 \times 10^{33}$	$6.9 \times 10^{-5}$	0.4	0.04	0.75
					5n-vector	$6.8 \times 10^{-26}$	...	$2.0 \times 10^{-26}$	$3.8 \times 10^{33}$	$4.9 \times 10^{-5}$	0.29	0.23	0.49
J1856+0245	12.4	$6.2 \times 10^{-14}$	6.32 (b)	$1.1 \times 10^{-25}$	Bayesian	$7.2 \times 10^{-24}$	$7.3 \times 10^{-26}$	$1.5 \times 10^{-25}$	$1.1 \times 10^{35}$	$1.4 \times 10^{-3}$	1.3	–3.8	–2.1
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	...	...	$1.6 \times 10^{-25}$	$1.2 \times 10^{35}$	$1.6 \times 10^{-3}$	1.5	...	0.36
J1913+1011	27.8	$3.4 \times 10^{-15}$	4.61 (b)	$5.4 \times 10^{-26}$	Bayesian	$1.6 \times 10^{-25}$	$1.8 \times 10^{-26}$	$3.7 \times 10^{-26}$	$4.0 \times 10^{33}$	$5.2 \times 10^{-5}$	0.7	–4.1	–2.2
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	$1.7 \times 10^{-25}$	...	$2.1 \times 10^{-26}$	$2.3 \times 10^{33}$	$3.0 \times 10^{-5}$	0.39	0.56	0.90
J1925+1720	13.2	$1.0 \times 10^{-14}$	5.06 (b)	$5.9 \times 10^{-26}$	Bayesian	$3.3 \times 10^{-24}$	$5.5 \times 10^{-26}$	$1.1 \times 10^{-25}$	$5.8 \times 10^{34}$	$7.5 \times 10^{-4}$	1.9	–5.6	–2.4
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	...	...	$1.1 \times 10^{-25}$	$5.8 \times 10^{34}$	$7.5 \times 10^{-4}$	1.9	...	0.44
J1928+1746	14.5	$1.3 \times 10^{-14}$	4.34 (b)	$8.1 \times 10^{-26}$	Bayesian	$2.4 \times 10^{-24}$	$5.5 \times 10^{-26}$	$1.2 \times 10^{-25}$	$4.3 \times 10^{34}$	$5.6 \times 10^{-4}$	1.4	–5.2	–2.6
					$\mathcal{F}$ -statistic	$2.2 \times 10^{-24}$	$3.9 \times 10^{-26}$	$1.3 \times 10^{-25}$	$4.9 \times 10^{34}$	$6.3 \times 10^{-4}$	1.6	0.61	0.61
					5n-vector	...	...	$8.6 \times 10^{-26}$	$3.2 \times 10^{34}$	$4.2 \times 10^{-4}$	1.1	...	0.59
J1935+2025	12.5	$6.1 \times 10^{-14}$	4.60 (b)	$1.5 \times 10^{-25}$	Bayesian	$7.3 \times 10^{-24}$	$5.2 \times 10^{-26}$	$1.1 \times 10^{-25}$	$6.2 \times 10^{34}$	$8.0 \times 10^{-4}$	0.75	–4.4	–2.4
					$\mathcal{F}$ -statistic	$5.0 \times 10^{-24}$	$5.5 \times 10^{-26}$	$1.3 \times 10^{-25}$	$7.0 \times 10^{34}$	$9.1 \times 10^{-4}$	0.85	0.71	0.71
					5n-vector	...	...	$1.4 \times 10^{-25}$	$7.6 \times 10^{34}$	$9.8 \times 10^{-4}$	0.92	...	0.37
J1952+3252 <sup>c</sup>	25.3	$5.8 \times 10^{-15}$	3.00 (m)	$1.0 \times 10^{-25}$	Bayesian	$2.8(2.9) \times 10^{-25}$	$8.7(9.0) \times 10^{-27}$	$1.9(1.8) \times 10^{-26}$	$1.7(1.5) \times 10^{33}$	$2.1(2.0) \times 10^{-5}$	0.19(0.17)	–3.4(–3.5)	–2.7(–2.6)
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...
					5n-vector	$2.0(2.0) \times 10^{-25}$	...	$2.4(2.5) \times 10^{-26}$	$2.1(2.1) \times 10^{33}$	$2.7(2.7) \times 10^{-5}$	0.24(0.24)	0.06	0.70



**Table 1**  
(Continued)

Pulsar Name (J2000)	$f_{\text{rot}}$ (Hz)	$\dot{P}_{\text{rot}}$ (s s <sup>-1</sup> )	Distance (kpc)	$h_0^{\text{sd}}$	Analysis Method	$C_{21}^{95\%}$	$C_{22}^{95\%}$	$h_0^{95\%}$	$Q_{22}^{95\%}$ (kg m <sup>2</sup> )	$\epsilon^{95\%}$	$h_0^{95\%}/h_0^{\text{sd}}$	Statistic <sup>a</sup> $l=2, m=1, 2$	Statistic <sup>b</sup> $l=2, m=2$	
J2043+2740	10.4	$1.3 \times 10^{-15}$	1.48 (b)	$6.3 \times 10^{-26}$	Bayesian	$2.6 \times 10^{-23}$	$7.3 \times 10^{-26}$	$1.6 \times 10^{-25}$	$4.1 \times 10^{34}$	$5.3 \times 10^{-4}$	2.6	-4.2	-2.5	
					$\mathcal{F}$ -statistic	$2.1 \times 10^{-23}$	$6.4 \times 10^{-26}$	$2.8 \times 10^{-25}$	$7.0 \times 10^{34}$	$9.1 \times 10^{-4}$	4.5	0.79	0.79	
					5n-vector	...	...	$1.9 \times 10^{-25}$	$4.7 \times 10^{34}$	$6.1 \times 10^{-4}$	3	...	0.17	
J2124-3358	202.8	$9.0 \times 10^{-21}\text{g}$	0.38 (g)	$2.9 \times 10^{-27}$	Bayesian	$1.4 \times 10^{-26}$	$6.3 \times 10^{-27}$	$1.3 \times 10^{-26}$	$2.2 \times 10^{30}$	$2.9 \times 10^{-8}$	4.6	-3.8	-2.2	
					$\mathcal{F}$ -statistic	...	...	...	...	...	...	...	...	...
					5n-vector	$2.6 \times 10^{-26}$	...	$1.3 \times 10^{-26}$	$2.2 \times 10^{30}$	$2.8 \times 10^{-8}$	4.5	0.58	0.58	
J2229+6114	19.4	$7.8 \times 10^{-14}$	3.00 (hh)	$3.3 \times 10^{-25}$	Bayesian	$3.9(3.7) \times 10^{-25}$	$1.2(0.8) \times 10^{-26}$	$2.5(1.6) \times 10^{-26}$	$3.7(2.3) \times 10^{33}$	$4.8(3.0) \times 10^{-5}$	0.077(0.048)	-5.0(-5.1)	-2.8(-2.9)	
					$\mathcal{F}$ -statistic	$5.6 \times 10^{-25}$	$2.9 \times 10^{-26}$	$2.1 \times 10^{-26}$	$3.1 \times 10^{33}$	$4.0 \times 10^{-5}$	0.063	0.55	0.43	
					5n-vector	...	...	$2.5(1.9) \times 10^{-26}$	$3.7(2.8) \times 10^{33}$	$4.8(3.6) \times 10^{-5}$	0.077(0.057)	...	0.99	
J2302+4442 <sup>c</sup>	192.6	$1.4 \times 10^{-20}$	0.86 (b)	$1.5 \times 10^{-27}$	Bayesian	$1.5 \times 10^{-26}$	$6.5 \times 10^{-27}$	$1.4 \times 10^{-26}$	$5.7 \times 10^{30}$	$7.4 \times 10^{-8}$	8.9	-3.9	-2.0	
					$\mathcal{F}$ -statistic	$2.5 \times 10^{-26}$	$5.6 \times 10^{-27}$	$1.1 \times 10^{-26}$	$4.7 \times 10^{30}$	$6.0 \times 10^{-8}$	7.2	0.49	0.49	
					5n-vector	...	...	...	...	...	...	...	...	

**Notes.** For references and other notes see Table 2. Values in parentheses are those produced using the restricted orientation priors described in Section 2.2.4.

<sup>a</sup> For the *Bayesian* method this column shows the base-10 logarithm of the Bayesian odds,  $\mathcal{O}$ , comparing a coherent signal model at both the  $l = 2, m = 1, 2$  modes to incoherent signal models. For the  $\mathcal{F}$ -/ $\mathcal{G}$ -statistic method this column shows the false-alarm probability for a signal just at the  $l = 2, m = 1$  mode, assuming that the  $2\mathcal{F}$  value has a  $\chi^2$  distribution with 4 degrees of freedom and the  $2\mathcal{G}$  value has a  $\chi^2$  distribution with 2 degrees of freedom. For the *5n-vector* method this column shows the  $p$ -value for a search for a signal at just the  $l = 2, m = 1$  mode, where the null hypothesis being tested is that the data are consistent with pure Gaussian noise.

<sup>b</sup> This is the same as in footnote a, but for all the methods the assumed signal model is from the  $l = m = 2$  mode.

<sup>c</sup> The observed  $\dot{P}$  has been corrected to account for the relative motion between the pulsar and observer.

(This table is available in its entirety in machine-readable form.)







**Table 2**  
(Continued)

Pulsar Name (J2000)	$f_{\text{rot}}$ (Hz)	$\dot{P}_{\text{rot}}^{\text{a}}$ (s s <sup>-1</sup> )	Distance (kpc)	$h_0^{\text{sd}}$	$C_{21}^{95\%}$	$C_{22}^{95\%}$	$h_0^{95\%}$	$Q_{22}^{95\%}$ (kg m <sup>2</sup> )	$\epsilon^{95\%}$	$h_0^{95\%}/h_0^{\text{sd}}$	$\mathcal{O}_{m=1,2}^{J=2}$	$\mathcal{O}_{m=2}^{J=2}$
J2017+0603 <sup>a</sup>	345.3	$8.0 \times 10^{-21}$	1.40 <sup>b</sup>	$9.6 \times 10^{-28}$	$2.4 \times 10^{-26}$	$1.3 \times 10^{-26}$	$2.7 \times 10^{-26}$	$5.8 \times 10^{30}$	$7.5 \times 10^{-8}$	28	-4.0	-1.6
J2017-1614	432.1	$2.4 \times 10^{-21}$	1.44 <sup>b</sup>	$5.7 \times 10^{-28}$	$1.7 \times 10^{-26}$	$1.4 \times 10^{-26}$	$3.0 \times 10^{-26}$	$4.2 \times 10^{30}$	$5.4 \times 10^{-8}$	52	-3.7	-1.7
J2019+2425 <sup>a</sup>	254.2	$1.6 \times 10^{-21}$	1.16 <sup>b</sup>	$4.4 \times 10^{-28}$	$2.8 \times 10^{-26}$	$1.4 \times 10^{-26}$	$3.3 \times 10^{-26}$	$1.1 \times 10^{31}$	$1.4 \times 10^{-7}$	75	-3.3	-1.7
J2033+1734 <sup>a</sup>	168.1	$8.4 \times 10^{-21}$	1.74 <sup>b</sup>	$5.5 \times 10^{-28}$	$1.4 \times 10^{-26}$	$7.8 \times 10^{-27}$	$1.6 \times 10^{-26}$	$1.8 \times 10^{31}$	$2.3 \times 10^{-7}$	28	-3.9	-2.0
J2042+0246	220.6	$1.4 \times 10^{-20}$	0.64 <sup>b</sup>	$2.2 \times 10^{-27}$	$2.1 \times 10^{-26}$	$6.9 \times 10^{-27}$	$1.4 \times 10^{-26}$	$3.3 \times 10^{30}$	$4.2 \times 10^{-8}$	6.1	-3.6	-2.0
J2043+1711 <sup>a</sup>	420.2	$4.1 \times 10^{-21}$	1.60 <sup>a</sup>	$6.6 \times 10^{-28}$	$2.6 \times 10^{-26}$	$1.1 \times 10^{-26}$	$2.2 \times 10^{-26}$	$3.7 \times 10^{30}$	$4.8 \times 10^{-8}$	34	-3.9	-2.1
J2045+3633 <sup>a</sup>	31.6	$6.0 \times 10^{-19}$	5.63 <sup>b</sup>	$6.2 \times 10^{-28}$	$5.3 \times 10^{-26}$	$9.9 \times 10^{-27}$	$2.1 \times 10^{-26}$	$2.1 \times 10^{33}$	$2.8 \times 10^{-5}$	33	-4.8	-2.3
J2047+1053	233.3	$2.1 \times 10^{-20}$	2.79 <sup>b</sup>	$6.4 \times 10^{-28}$	$3.4 \times 10^{-26}$	$6.1 \times 10^{-27}$	$1.3 \times 10^{-26}$	$1.3 \times 10^{31}$	$1.6 \times 10^{-7}$	21	-3.1	-2.1
J2051-0827 <sup>a</sup>	221.8	$1.2 \times 10^{-20}$	1.47 <sup>b</sup>	$9.0 \times 10^{-28}$	$1.9 \times 10^{-26}$	$8.4 \times 10^{-27}$	$1.7 \times 10^{-26}$	$9.4 \times 10^{30}$	$1.2 \times 10^{-7}$	19	-3.6	-1.8
J2052+1218	503.7	$6.7 \times 10^{-21}$	3.92 <sup>b</sup>	$3.8 \times 10^{-28}$	$2.0 \times 10^{-26}$	$9.6 \times 10^{-27}$	$2.1 \times 10^{-26}$	$6.0 \times 10^{30}$	$7.7 \times 10^{-8}$	56	-4.1	-2.3
J2053+4650 <sup>a</sup>	79.5	$1.7 \times 10^{-19}$	3.81 <sup>b</sup>	$7.8 \times 10^{-28}$	$1.9 \times 10^{-26}$	$5.4 \times 10^{-27}$	$1.1 \times 10^{-26}$	$1.3 \times 10^{32}$	$1.6 \times 10^{-6}$	15	-4.1	-1.9
J2129+1210A <sup>c</sup>	9.0	$8.8 \times 10^{-19}$	10.00 <sup>ff</sup>	$2.3 \times 10^{-28}$	...	...	$7.2 \times 10^{-25}$	$1.6 \times 10^{36}$	$2.1 \times 10^{-2}$	3200	-2.5	-1.9
J2129+1210B <sup>c</sup>	17.8	$4.4 \times 10^{-19}$	10.00 <sup>ff</sup>	$2.3 \times 10^{-28}$	$8.9 \times 10^{-25}$	$1.4 \times 10^{-26}$	$2.9 \times 10^{-26}$	$1.7 \times 10^{34}$	$2.2 \times 10^{-4}$	130	-4.9	-2.9
J2129+1210C <sup>c</sup>	32.8	$2.4 \times 10^{-19}$	10.00 <sup>ff</sup>	$2.3 \times 10^{-28}$	$7.2 \times 10^{-26}$	$8.5 \times 10^{-27}$	$1.7 \times 10^{-26}$	$2.9 \times 10^{33}$	$3.7 \times 10^{-5}$	75	-4.8	-2.4
J2129+1210D <sup>c</sup>	208.2	$3.8 \times 10^{-20}$	10.00 <sup>ff</sup>	$2.3 \times 10^{-28}$	$1.7 \times 10^{-26}$	$8.5 \times 10^{-27}$	$1.8 \times 10^{-26}$	$7.5 \times 10^{31}$	$9.7 \times 10^{-7}$	78	-3.6	-1.9
J2129+1210E <sup>c</sup>	215.0	$3.7 \times 10^{-20}$	10.00 <sup>ff</sup>	$2.3 \times 10^{-28}$	$1.9 \times 10^{-26}$	$7.2 \times 10^{-27}$	$1.5 \times 10^{-26}$	$5.9 \times 10^{31}$	$7.6 \times 10^{-7}$	66	-3.8	-2.0
J2145-0750	62.3	$2.9 \times 10^{-20g}$	0.65 <sup>g</sup>	$1.7 \times 10^{-27}$	$2.7 \times 10^{-26}$	$6.9 \times 10^{-27}$	$1.4 \times 10^{-26}$	$4.4 \times 10^{31}$	$5.7 \times 10^{-7}$	8.7	-4.1	-1.8
J2205+60	414.0	$2.0 \times 10^{-20}$	3.53 <sup>b</sup>	$6.5 \times 10^{-28}$	$1.8 \times 10^{-26}$	$1.1 \times 10^{-26}$	$2.4 \times 10^{-26}$	$8.9 \times 10^{30}$	$1.2 \times 10^{-7}$	36	-4.0	-1.9
J2214+3000 <sup>a</sup>	320.6	$1.3 \times 10^{-20}$	0.60 <sup>a</sup>	$2.7 \times 10^{-27}$	$2.0 \times 10^{-26}$	$1.3 \times 10^{-26}$	$2.6 \times 10^{-26}$	$2.8 \times 10^{30}$	$3.6 \times 10^{-8}$	9.5	-3.5	-1.7
J2222-0137	30.5	$4.1 \times 10^{-21gg}$	0.27 <sup>gg</sup>	$1.1 \times 10^{-27}$	$8.6 \times 10^{-26}$	$1.1 \times 10^{-26}$	$2.2 \times 10^{-26}$	$1.1 \times 10^{32}$	$1.5 \times 10^{-6}$	20	-4.7	-2.3
J2229+2643 <sup>a</sup>	335.8	$1.4 \times 10^{-21}$	1.80 <sup>b</sup>	$3.1 \times 10^{-28}$	$3.2 \times 10^{-26}$	$1.1 \times 10^{-26}$	$2.3 \times 10^{-26}$	$6.6 \times 10^{30}$	$8.5 \times 10^{-8}$	72	-3.2	-1.8
J2234+0611 <sup>a</sup>	279.6	$3.6 \times 10^{-21}$	1.50 <sup>a</sup>	$5.4 \times 10^{-28}$	$2.0 \times 10^{-26}$	$8.9 \times 10^{-27}$	$1.8 \times 10^{-26}$	$6.4 \times 10^{30}$	$8.3 \times 10^{-8}$	34	-3.7	-1.9
J2234+0944 <sup>a</sup>	275.7	$1.3 \times 10^{-20}$	0.80 <sup>a</sup>	$1.9 \times 10^{-27}$	$1.7 \times 10^{-26}$	$7.7 \times 10^{-27}$	$1.6 \times 10^{-26}$	$3.1 \times 10^{30}$	$4.0 \times 10^{-8}$	8.2	-3.9	-2.0
J2235+1506 <sup>a</sup>	16.7	$9.2 \times 10^{-20}$	1.54 <sup>b</sup>	$6.5 \times 10^{-28}$	$1.5 \times 10^{-24}$	$3.3 \times 10^{-26}$	$6.2 \times 10^{-26}$	$6.2 \times 10^{33}$	$8.0 \times 10^{-5}$	95	-3.4	-1.9
J2241-5236	457.3	$6.6 \times 10^{-21}$	0.96 <sup>b</sup>	$1.5 \times 10^{-27}$	$2.5 \times 10^{-26}$	$8.8 \times 10^{-27}$	$2.0 \times 10^{-26}$	$1.6 \times 10^{30}$	$2.1 \times 10^{-8}$	13	-4.1	-2.2
J2256-1024	435.8	$1.1 \times 10^{-20}$	1.33 <sup>b</sup>	$1.3 \times 10^{-27}$	$2.6 \times 10^{-26}$	$1.2 \times 10^{-26}$	$2.3 \times 10^{-26}$	$2.9 \times 10^{30}$	$3.8 \times 10^{-8}$	17	-3.7	-2.1
J2310-0555	382.8	$5.0 \times 10^{-21}$	1.55 <sup>b</sup>	$7.2 \times 10^{-28}$	$1.9 \times 10^{-26}$	$9.7 \times 10^{-27}$	$2.0 \times 10^{-26}$	$3.9 \times 10^{30}$	$5.0 \times 10^{-8}$	28	-4.0	-2.1
J2317+1439	290.3	$3.5 \times 10^{-21g}$	1.01 <sup>g</sup>	$8.0 \times 10^{-28}$	$1.5 \times 10^{-26}$	$1.2 \times 10^{-26}$	$2.6 \times 10^{-26}$	$5.6 \times 10^{30}$	$7.2 \times 10^{-8}$	32	-3.6	-1.6
J2322+2057	208.0	$4.4 \times 10^{-22ii}$	0.23 <sup>ii</sup>	$1.1 \times 10^{-27}$	$2.1 \times 10^{-26}$	$6.2 \times 10^{-27}$	$1.3 \times 10^{-26}$	$1.3 \times 10^{30}$	$1.6 \times 10^{-8}$	12	-3.7	-2.0
J2339-0533 <sup>a</sup>	346.7	$6.9 \times 10^{-21}$	1.10 <sup>jj</sup>	$1.1 \times 10^{-27}$	$2.2 \times 10^{-26}$	$8.1 \times 10^{-27}$	$1.8 \times 10^{-26}$	$2.9 \times 10^{30}$	$3.8 \times 10^{-8}$	15	-4.9	-2.4

**Notes.**The following is a list of references for pulsar distances and intrinsic period derivatives, and they should be consulted for information on the associated uncertainties on these quantities: (a) Arzoumanian et al. (2018), (b) Yao et al. (2017), (c) Kothes (2013), (d) Verbiest & Lorimer (2014), (e) Antoniadis et al. (2013), (f) Reardon et al. (2016), (g) Desvignes et al. (2016), (h) Bassa et al. (2016), (i) Deller et al. (2009), (j) Dodson et al. (2003), (k) Mingarelli, private communication, (l) Abbott et al. (2017a), (m) Verbiest et al. (2012), (n) Boyles et al. (2013), (o) Halpern et al. (2013), (p) Fonseca et al. (2014), (q) Braga et al. (2015), (r) Vigeland et al. (2018), (s) Mingarelli et al. (2018), (t) Freire et al. (2012), (u) Espinoza et al. (2013), (v) Ortolani et al. (2007), (w) Ferdman et al. (2014), (x) Harris (1996), (y) Valenti et al. (2010), (z) Marelli et al. (2014), (aa) Valenti et al. (2007), (bb) Rees & Cudworth (1991), (cc) Wang (2011), (dd) Gotthelf et al. (2011), (ee) Gratten et al. (2003), (ff) McNamara et al. (2004), (gg) Deller et al. (2013), (hh) Halpern et al. (2001), (ii) Spiewak et al. (2018), (jj) Romani & Shaw (2011), (kk) Ng et al. (2014).

<sup>a</sup> The observed  $\dot{P}$  has been corrected to account for the relative motion between the pulsar and observer.

<sup>b</sup> The corrected pulsar  $\dot{P}$  value is negative, so no value is given and no spin-down limit has been calculated.

<sup>c</sup> This is a globular cluster pulsar for which a proxy period derivative has been derived assuming a characteristic age of  $10^9$  years and a braking index of  $n = 5$ .

The information in Table 2 is available in the machine readable version of Table 1.