

# Public List of LAT-Detected Gamma-Ray Pulsars

The following is a compilation of all publicly-announced gamma-ray pulsars detected using the Fermi LAT. Each detection has been vetted by the LAT team, typically requiring a pulsed-detection significance of at least 4 sigma before announcement. We attempt to ensure that the information presented here is correct, but we strongly encourage users to consult the cited literature as the definitive source of information. Note that this list does **not** include all pulsars found in radio searches of LAT sources or other radio pulsars associated with LAT sources **unless** gamma-ray pulsations have been detected. To prevent inadvertent disclosure of private information, Edot column is only populated for pulsars whose discoveries have already been published, not just announced at a conference. Another warning: Edots in this list are NOT corrected for the Shklovskii effect.

Timing models (i.e. par files) for most published gamma-ray pulsars are available from the FSSC at [this page](#) . And, a list of all LAT published papers is available [here](#) . **NB:** When referencing particulars of any individual published pulsar, *p*lease cite the original papers and *not* this URL.

**Updates:** 2023 August 29: updated after acceptance of 3PC by the ApJ Supplement. <https://arxiv.org/abs/2307.11132>    [https://fermi.gsfc.nasa.gov/ssc/data/access/lat/3rd\\_PSR\\_catalog/](https://fermi.gsfc.nasa.gov/ssc/data/access/lat/3rd_PSR_catalog/)

2022 October 4: Added Kuiper, Hermsen & Dekker's detection of PSR J1846-0258 (<https://ui.adsabs.harvard.edu/abs/2018MNRAS.475.1238K>), confirmed by Brent Limayansky in his doctoral thesis (U. of Calif. Santa Cruz, 2022). Also added PSR J1835-3259B in the Globular Cluster NGC 6652, discovered in radio by Gautam, Ridolfi, Freire et al (<https://ui.adsabs.harvard.edu/abs/2022A&A...664A..54G>) and in gamma-rays by Zhang, Xing, Wang (<https://ui.adsabs.harvard.edu/abs/2022ApJ...935L..36Z>). These are rare instances of gamma-ray pulsation discoveries from outside the LAT team.

## Summary Statistics

Total number of pulsars: 297

- Young, radio + X-ray selected: 74
- Young, gamma selected: 71
- MSP, radio selected : 136
- MSP, gamma selected : 10
- Found in searches of LAT unassociated sources : 159
- EGRET/COMPTEL pulsars: 10

## Fermi LAT List of Detected Gamma-Ray Pulsars

| Name           | RAJ (deg) | DECJ (deg) | P (ms) | Edot    | Discovery | Characteristics | Refs            |
|----------------|-----------|------------|--------|---------|-----------|-----------------|-----------------|
| PSR J0002+6216 | 0.74      | 62.27      | 115.36 | 1.5e+35 | GU        | r               | P201,64         |
| PSR J0007+7303 | 1.75      | 73.05      | 315.87 | 4.5e+35 | G         | q               | 1,6,14,23,38,45 |
| PSR J0023+0923 | 5.82      | 9.39       | 3.05   | 1.5e+34 | RUP       | mbr             | P6,45           |
| PSR J0030+0451 | 7.61      | 4.86       | 4.87   | 3.5e+33 | R         | mrx             | 5,7,14,45       |
| PSR J0034-0534 | 8.59      | -5.58      | 1.88   | 2.9e+34 | R         | mbr             | 15,45           |
| PSR J0101-6422 | 15.30     | -64.38     | 2.57   | 1.1e+34 | RUP       | mbr             | 39,P10,45       |
| PSR J0102+4839 | 15.71     | 48.66      | 2.96   | 1.7e+34 | RUP       | mbr             | P6,45           |
| PSR J0106+4855 | 16.60     | 48.93      | 83.16  | 2.9e+34 | GU        | r               | 32,45           |
| PSR J0117+5914 | 19.41     | 59.24      | 101.44 | 2.2e+35 | R         | r               | 87              |
| PSR J0139+5814 | 24.83     | 58.24      | 272.46 | 2.1e+34 | R         | r               | 87              |
| PSR J0154+1833 | 28.65     | 18.56      | 2.36   | 8.5e+33 | R         | mr              | 87              |
| PSR J0205+6449 | 31.41     | 64.83      | 65.74  | 3e+37   | X         | rx              | 4,14,45         |
| PSR J0218+4232 | 34.53     | 42.54      | 2.32   | 2.4e+35 | R         | mbrx            | 7,14,45         |
| PSR J0248+4230 | 42.13     | 42.51      | 2.60   | 3.8e+34 | RUP       | mr              | P200,70,90      |
| PSR J0248+6021 | 42.08     | 60.36      | 217.11 | 2.1e+35 | R         | r               | 14,26,45        |
| PSR J0251+2606 | 42.76     | 26.10      | 2.54   | 1.8e+34 | RUP       | mbr             | P200,60,84,87   |
| PSR J0307+7443 | 46.98     | 74.72      | 3.16   | 2.2e+34 | RUP       | mbr             | P6,42           |
| PSR J0312-0921 | 48.03     | -9.37      | 3.70   | 1.5e+34 | RUP       | mbr             | 87,93           |
| PSR J0318+0253 | 49.56     | 2.88       | 5.19   | 5e+33   | RU        | mr              | 73              |
| PSR J0340+4130 | 55.10     | 41.51      | 3.30   | 7.5e+33 | RUP       | mr              | P6,45,55        |
| PSR J0357+3205 | 59.47     | 32.09      | 444.10 | 5.9e+33 | GU        | q               | 6,14,23,45      |
| PSR J0359+5414 | 59.86     | 54.25      | 79.43  | 1.3e+36 | GU        | q               | P201,64         |
| PSR J0418+6635 | 64.70     | 66.59      | 2.91   | 2.2e+34 | RUP       | mr              | 92,93           |
| PSR J0437-4715 | 69.32     | -47.25     | 5.76   | 1.2e+34 | R         | mbrx            | 7,14,45         |
| PSR J0514-4408 | 78.72     | -44.14     | 320.31 | 2.5e+33 | R         | r               | 70,82           |
| PSR J0533+6759 | 83.48     | 67.99      | 4.39   | 5.7e+33 | RUP       | mr              | 53              |
| PSR J0534+2200 | 83.63     | 22.01      | 33.00  | 4.6e+38 | RE        | rx              | 11,14,45        |
| PSR J0540-6919 | 85.05     | -69.33     | 50.50  | 1.5e+38 | X         | rx              | P18,65          |
| PSR J0554+3107 | 88.52     | 31.13      | 464.96 | 5.6e+34 | GU        | q               | P201,51         |
| PSR J0605+3757 | 91.27     | 37.96      | 2.73   | 9.5e+33 | RUP       | mbr             | 53              |

|                 |        |        |        |         |     |      |             |
|-----------------|--------|--------|--------|---------|-----|------|-------------|
| PSR J0610-2100  | 92.56  | -21.01 | 3.86   | 8.4e+33 | R   | mbr  | P12,44,45   |
| PSR J0613-0200  | 93.43  | -2.01  | 3.06   | 1.5e+34 | R   | mbr  | 7,14,45     |
| PSR J0614-3329  | 93.54  | -33.50 | 3.15   | 2.2e+34 | RUP | mbrx | 22,45       |
| PSR J0621+2514  | 95.30  | 25.23  | 2.72   | 4.8e+34 | RUP | mbr  | 53          |
| PSR J0622+3749  | 95.54  | 37.82  | 333.21 | 2.7e+34 | GU  | q    | 32,45       |
| PSR J0631+0646  | 97.97  | 6.77   | 110.98 | 1e+35   | GU  | r    | P201,64     |
| PSR J0631+1036  | 97.86  | 10.62  | 287.77 | 1.7e+35 | R   | r    | 12,14,45    |
| PSR J0633+0632  | 98.43  | 6.54   | 297.40 | 1.2e+35 | GU  | q    | 6,14,23,45  |
| PSR J0633+1746  | 98.48  | 17.77  | 236.97 | 3.2e+34 | XE  | xq   | 14,20,45    |
| PSR J0636+5128  | 99.02  | 51.48  | 2.87   | 5.7e+33 | R   | mbrx | P24,75      |
| PSR J0653+4706  | 103.27 | 47.11  | 4.76   | 7.6e+33 | RUP | mbr  | 87,P29      |
| PSR J0659+1414  | 104.95 | 14.24  | 384.91 | 3.8e+34 | R   | rx   | 12,14,45    |
| PSR J0729-1448  | 112.32 | -14.81 | 251.66 | 2.8e+35 | R   | r    | 45          |
| PSR J0729-1836  | 112.38 | -18.61 | 510.15 | 5.6e+33 | R   | r    | P24,75      |
| PSR J0734-1559  | 113.69 | -15.99 | 155.14 | 1.3e+35 | GU  | q    | P8,45       |
| PSR J0737-3039A | 114.46 | -30.66 | 22.70  | 5.9e+33 | R   | mbr  | P15,77      |
| PSR J0740+6620  | 115.19 | 66.34  | 2.89   | 2e+34   | R   | mbrx | P19,59      |
| PSR J0742-2822  | 115.70 | -28.38 | 166.75 | 1.4e+35 | R   | r    | 12,14,45    |
| PSR J0744-2525  | 116.02 | -25.42 | 92.01  | 4.8e+34 | GU  | q    | 92          |
| PSR J0751+1807  | 117.79 | 18.13  | 3.48   | 7.3e+33 | R   | mbrx | 7,14,45     |
| PSR J0802-5613  | 120.60 | -56.22 | 274.09 | 5.3e+33 | GU  | q    | 92          |
| PSR J0834-4159  | 128.57 | -41.99 | 121.12 | 9.5e+34 | R   | r    | 87          |
| PSR J0835-4510  | 128.84 | -45.18 | 88.97  | 7e+36   | RE  | rx   | 3,14,17,45  |
| PSR J0908-4913  | 137.15 | -49.22 | 106.76 | 4.9e+35 | R   | r    | P9,45       |
| PSR J0922+0638  | 140.56 | 6.64   | 430.66 | 6.8e+33 | R   | r    | P200,68     |
| PSR J0931-1902  | 142.83 | -19.05 | 4.64   | 1.4e+33 | R   | mr   | P19,52,59   |
| PSR J0940-5428  | 145.24 | -54.48 | 87.55  | 1.9e+36 | R   | r    | P9,45       |
| PSR J0952-0607  | 148.03 | -6.12  | 1.41   | 6.7e+34 | RUP | mbr  | 80          |
| PSR J0955-6150  | 148.83 | -61.84 | 2.00   | 7e+34   | RUP | mbr  | P23,61      |
| PSR J0955-3947  | 148.87 | -39.80 | 2.02   | 1.8e+35 | RU  | mbr  | 87,100      |
| PSR J1012-4235  | 153.05 | -42.60 | 3.10   | 8.7e+33 | RUP | mr   | P23,61      |
| PSR J1016-5857  | 154.09 | -58.95 | 107.39 | 2.6e+36 | R   | r    | P4,45       |
| PSR J1019-5749  | 154.97 | -57.82 | 162.50 | 1.8e+35 | R   | r    | P13,45      |
| PSR J1023-5746  | 155.76 | -57.77 | 111.47 | 1.1e+37 | GU  | q    | 21,45       |
| PSR J1023+0038  | 155.95 | 0.64   | 1.69   | 5.7e+34 | R   | mbr  | 87          |
| PSR J1024-0719  | 156.16 | -7.32  | 5.16   | 5.3e+33 | R   | mr   | P12,44,45   |
| PSR J1028-5819  | 157.12 | -58.32 | 91.40  | 8.3e+35 | R   | r    | P12,2,14,45 |
| PSR J1035-6720  | 158.86 | -67.34 | 2.87   | 7.7e+34 | GU  | mr   | 72          |
| PSR J1036-8317  | 159.17 | -83.30 | 3.41   | 3e+34   | RUP | mbr  | P23,61      |
| PSR J1044-5737  | 161.14 | -57.62 | 139.03 | 8e+35   | GU  | q    | 21,45       |
| PSR J1048+2339  | 162.18 | 23.66  | 4.67   | 1.2e+34 | RUP | mbr  | 79,84       |
| PSR J1048-5832  | 162.05 | -58.53 | 123.61 | 2e+36   | R   | r    | 10,14,39,45 |
| PSR J1055-6028  | 163.91 | -60.48 | 99.66  | 1.2e+36 | R   | r    | P17,45,56   |
| PSR J1057-5226  | 164.50 | -52.45 | 197.24 | 3e+34   | RE  | rx   | 14,19,45    |
| PSR J1057-5851  | 164.29 | -58.85 | 620.35 | 1.7e+34 | GU  | q    | P201,64     |
| PSR J1105-6037  | 166.25 | -60.62 | 194.93 | 1.2e+35 | GU  | q    | P201,64     |
| PSR J1105-6107  | 166.36 | -61.13 | 63.19  | 2.5e+36 | R   | r    | P13,45      |
| PSR J1111-6039  | 167.95 | -60.66 | 106.67 | 7e+36   | GU  | q    | P25         |
| PSR J1112-6103  | 168.06 | -61.06 | 64.97  | 4.5e+36 | R   | r    | 45          |
| PSR J1119-6127  | 169.81 | -61.46 | 407.75 | 2.3e+36 | R   | rx   | P3,34,45    |
| PSR J1124-3653  | 171.00 | -36.89 | 2.41   | 1.7e+34 | RUP | mbr  | P6,45       |
| PSR J1124-5916  | 171.16 | -59.27 | 135.48 | 1.2e+37 | R   | rx   | 14,23,45    |
| PSR J1125-5825  | 171.43 | -58.42 | 3.10   | 8.1e+34 | R   | mbr  | 30,45       |
| PSR J1125-6014  | 171.48 | -60.24 | 2.63   | 8.1e+33 | R   | mbr  | P24,75      |
| PSR J1135-6055  | 173.78 | -60.93 | 114.49 | 2.1e+36 | GU  | q    | P11,45      |
| PSR J1137+7528  | 174.26 | 75.47  | 2.51   | 7.9e+33 | RUP | mbr  | 53          |
| PSR J1139-6247  | 174.82 | -62.79 | 120.43 | 9.1e+34 | GU  | q    | 92          |
| PSR J1142+0119  | 175.71 | 1.33   | 5.08   | 4.5e+33 | RUP | mbr  | 53          |
| PSR J1151-6108  | 177.99 | -61.14 | 101.63 | 3.9e+35 | R   | r    | 68          |
| PSR J1203-6242  | 180.98 | -62.71 | 100.64 | 1.7e+36 | GU  | q    | 92          |
| PSR J1207-5050  | 181.84 | -50.84 | 4.84   | 2.1e+33 | RUP | mr   | P200,70,90  |
| PSR J1208-6238  | 182.06 | -62.63 | 440.52 | 1.5e+36 | GU  | q    | P201,63     |
| PSR J1221-0633  | 185.35 | -6.56  | 1.93   | 5.9e+34 | R   | mbr  | 85          |
| PSR J1224-6407  | 186.09 | -64.13 | 216.45 | 1.9e+34 | R   | r    | P19,69      |
| PSR J1227-4853  | 186.99 | -48.90 | 1.69   | 9e+34   | RUP | mbr  | 57,70       |

|                |        |        |        |         |     |      |            |
|----------------|--------|--------|--------|---------|-----|------|------------|
| PSR J1231-1411 | 187.80 | -14.20 | 3.68   | 1.8e+34 | RUP | mbrx | 22,45      |
| PSR J1231-5113 | 187.90 | -51.23 | 206.44 | 5.2e+32 | GU  | q    | 92         |
| PSR J1231-6511 | 187.93 | -65.20 | 247.37 | 7.4e+34 | GU  | q    | 92         |
| PSR J1253-5820 | 193.37 | -58.34 | 255.50 | 5e+33   | R   | r    | 87         |
| PSR J1259-8148 | 194.88 | -81.81 | 2.09   | 1.5e+34 | RU  | mbr  | 87,100     |
| PSR J1301+0833 | 195.41 | 8.57   | 1.84   | 6.7e+34 | RUP | mbr  | 69         |
| PSR J1302-3258 | 195.61 | -32.98 | 3.77   | 5.1e+33 | RUP | mbr  | 55         |
| PSR J1306-6043 | 196.58 | -60.73 | 5.67   | 6.6e+33 | R   | mbr  | 87,100     |
| PSR J1311-3430 | 197.94 | -34.51 | 2.56   | 4.9e+34 | GUP | mbr  | 46,47      |
| PSR J1312+0051 | 198.19 | 0.85   | 4.23   | 9.3e+33 | RUP | mbr  | 53         |
| PSR J1327-0755 | 201.99 | -7.93  | 2.68   | 3.7e+33 | R   | mbr  | P24,75     |
| PSR J1335-5656 | 203.77 | -56.93 | 3.24   | 1.4e+34 | GU  | mq   | 92         |
| PSR J1341-6220 | 205.43 | -62.34 | 193.34 | 1.4e+36 | R   | r    | P21,68     |
| PSR J1350-6225 | 207.68 | -62.43 | 138.16 | 1.3e+35 | GU  | q    | P201,64    |
| PSR J1356+0230 | 209.15 | 2.51   | 2.83   | —       | RUP | mbr  | 100,101    |
| PSR J1357-6429 | 209.26 | -64.49 | 166.11 | 3.1e+36 | R   | rx   | 28,29,45   |
| PSR J1358-6025 | 209.61 | -60.43 | 60.52  | 5.4e+35 | GU  | q    | 92         |
| PSR J1400-1431 | 210.15 | -14.53 | 3.08   | 9.7e+33 | R   | mbr  | 86         |
| PSR J1402+1306 | 210.69 | 13.12  | 5.89   | 2.6e+33 | RUP | mbr  | 87         |
| PSR J1410-6132 | 212.60 | -61.54 | 50.05  | 1e+37   | R   | r    | P9,45      |
| PSR J1413-6205 | 213.37 | -62.09 | 109.74 | 8.3e+35 | GU  | q    | 21,45      |
| PSR J1418-6058 | 214.68 | -60.97 | 110.57 | 5e+36   | GU  | q    | 6,14,23,45 |
| PSR J1420-6048 | 215.03 | -60.80 | 68.18  | 1e+37   | R   | rx   | 12,14,45   |
| PSR J1422-6138 | 215.62 | -61.64 | 340.97 | 9.6e+34 | GU  | q    | P201,51    |
| PSR J1429-5911 | 217.49 | -59.19 | 115.84 | 7.7e+35 | GU  | q    | 21,45      |
| PSR J1431-4715 | 217.94 | -47.26 | 2.01   | 6.8e+34 | R   | mbr  | P200,68    |
| PSR J1446-4701 | 221.65 | -47.02 | 2.19   | 3.8e+34 | R   | mbr  | 30,45      |
| PSR J1447-5757 | 221.87 | -57.96 | 158.73 | 1.2e+35 | GU  | q    | 92         |
| PSR J1455-3330 | 223.95 | -33.51 | 7.99   | 1.9e+33 | R   | mbr  | P19,59,45  |
| PSR J1459-6053 | 224.88 | -60.89 | 103.15 | 9.1e+35 | GU  | qx   | 6,14,23,45 |
| PSR J1509-5850 | 227.36 | -58.85 | 88.92  | 5.2e+35 | R   | r    | 12,14,45   |
| PSR J1513-2550 | 228.35 | -25.84 | 2.12   | 9e+34   | RUP | mbr  | 53         |
| PSR J1513-5908 | 228.48 | -59.14 | 150.66 | 1.8e+37 | XE  | rx   | 18,45      |
| PSR J1514-4946 | 228.58 | -49.77 | 3.59   | 1.6e+34 | RUP | mbr  | 39,42,45   |
| PSR J1522-5735 | 230.52 | -57.58 | 102.14 | 1.2e+36 | GU  | q    | P201,51    |
| PSR J1526-2744 | 231.69 | -27.73 | 2.49   | 9.1e+33 | RU  | rmb  | 87,102     |
| PSR J1528-5838 | 232.10 | -58.63 | 355.75 | 2.2e+34 | GU  | q    | P201,64    |
| PSR J1531-5610 | 232.87 | -56.18 | 84.20  | 9e+35   | R   | r    | P9,45      |
| PSR J1536-4948 | 234.10 | -49.82 | 3.08   | 2.9e+34 | RUP | mbr  | P200,70,90 |
| PSR J1543-5149 | 235.93 | -51.83 | 2.06   | 7.3e+34 | R   | mbr  | 50         |
| PSR J1544+4937 | 236.02 | 49.63  | 2.16   | 1.2e+34 | RUP | mbr  | 49,70      |
| PSR J1552+5437 | 238.22 | 54.62  | 2.43   | 7.7e+33 | R   | mr   | 67,71      |
| PSR J1555-2908 | 238.92 | -29.14 | 1.79   | 3.1e+35 | RUP | mbr  | P26,91,94  |
| PSR J1600-3053 | 240.22 | -30.90 | 3.60   | 8.1e+33 | R   | mbr  | P6,44,45   |
| PSR J1614-2230 | 243.65 | -22.51 | 3.15   | 1.3e+34 | R   | mbrx | 7,14,45    |
| PSR J1614-5048 | 243.55 | -50.80 | 231.89 | 1.6e+36 | R   | r    | 87         |
| PSR J1615-5137 | 243.82 | -51.62 | 179.28 | 7.3e+34 | GU  | q    | 81         |
| PSR J1620-4927 | 245.17 | -49.46 | 171.93 | 8.2e+34 | GU  | q    | 32,45      |
| PSR J1622-0315 | 245.75 | -3.26  | 3.85   | 7.9e+33 | RUP | mbr  | 53         |
| PSR J1623-6936 | 245.96 | -69.61 | 2.41   | 2.6e+34 | RU  | mbr  | 87,102     |
| PSR J1623-5005 | 245.77 | -50.09 | 85.11  | 2.7e+35 | GU  | q    | P201,64    |
| PSR J1624-4041 | 246.04 | -40.69 | 167.86 | 4e+34   | GU  | q    | P201,64    |
| PSR J1625-0021 | 246.29 | -0.36  | 2.83   | 3.7e+34 | RUP | mbr  | 84         |
| PSR J1627+3219 | 246.97 | 32.31  | 2.18   | 2.1e+34 | RU  | rmb  | 87         |
| PSR J1628-3205 | 247.03 | -32.10 | 3.21   | 1.3e+34 | RUP | mbr  | 69         |
| PSR J1630+3734 | 247.65 | 37.58  | 3.32   | 1.1e+34 | RUP | mbr  | 53         |
| PSR J1640+2224 | 250.07 | 22.40  | 3.16   | 3.5e+33 | R   | mbr  | P17,45,56  |
| PSR J1641-5317 | 250.32 | -53.30 | 175.11 | 2.7e+34 | GU  | q    | 74         |
| PSR J1641+8049 | 250.34 | 80.83  | 2.02   | 4.3e+34 | R   | mbr  | 87         |
| PSR J1646-4346 | 251.71 | -43.78 | 231.60 | 3.6e+35 | R   | r    | P21,68     |
| PSR J1648-4611 | 252.09 | -46.19 | 164.95 | 2.1e+35 | R   | r    | P1,45      |
| PSR J1649-3012 | 252.44 | -30.21 | 3.42   | 1.3e+34 | GU  | mq   | 92         |
| PSR J1650-4601 | 252.58 | -46.02 | 127.06 | 2.9e+35 | GU  | q    | P201,64    |
| PSR J1653-0158 | 253.41 | -1.98  | 1.97   | 1.2e+34 | GU  | mbq  | 83,91      |
| PSR J1658-5324 | 254.66 | -53.40 | 2.44   | 3.2e+34 | RUP | mr   | 39,42,45   |
| PSR J1702-4128 | 255.72 | -41.48 | 182.14 | 3.4e+35 | R   | r    | P13,45     |

|                 |        |        |        |         |     |             |               |
|-----------------|--------|--------|--------|---------|-----|-------------|---------------|
| PSR J1705-1906  | 256.40 | -19.11 | 298.99 | 6.1e+33 | R   | r           | P17,45,56     |
| PSR J1709-4429  | 257.43 | -44.49 | 102.46 | 3.4e+36 | RE  | rx          | 14,19,45      |
| PSR J1713+0747  | 258.46 | 7.79   | 4.57   | 3.5e+33 | R   | mbr         | P12,44,45     |
| PSR J1714-3830  | 258.58 | -38.51 | 84.14  | 4.6e+36 | GU  | q           | P25           |
| PSR J1718-3825  | 259.56 | -38.42 | 74.68  | 1.3e+36 | R   | r           | 12,14,45      |
| PSR J1730-2304  | 262.59 | -23.08 | 8.12   | 1.5e+33 | R   | mr          | P19,59        |
| PSR J1730-3350  | 262.64 | -33.84 | 139.49 | 1.2e+36 | R   | r           | P9,45         |
| PSR J1731-4744  | 262.93 | -47.74 | 829.88 | 1.1e+34 | R   | r           | P24,75        |
| PSR J1732-3131  | 263.14 | -31.52 | 196.54 | 1.5e+35 | GU  | r           | 6,14,23,45    |
| PSR J1732-5049  | 263.20 | -50.82 | 5.31   | 3.7e+33 | R   | mbr         | P17,45,56     |
| PSR J1736-3422  | 264.05 | -34.37 | 346.93 | 6.2e+34 | GU  | q           | 92            |
| PSR J1739-3023  | 264.92 | -30.39 | 114.37 | 3e+35   | R   | r           | P19,69        |
| PSR J1740+1000  | 265.11 | 10.00  | 154.08 | 2.3e+35 | R   | r           | P24,75        |
| PSR J1741-2054  | 265.49 | -20.90 | 413.70 | 9.5e+33 | GU  | rx          | 6,9,14,23,45  |
| PSR J1741+1351  | 265.38 | 13.86  | 3.75   | 2.2e+34 | R   | mbr         | 44,45         |
| PSR J1742-3321  | 265.55 | -33.36 | 143.31 | 1.7e+34 | GU  | q           | 92            |
| PSR J1744-1134  | 266.12 | -11.58 | 4.07   | 5.2e+33 | R   | mr          | 7,14,45       |
| PSR J1744-7619  | 266.00 | -76.32 | 4.69   | 3.7e+33 | GU  | mq          | 72            |
| PSR J1745+1017  | 266.39 | 10.30  | 2.65   | 5.3e+33 | RUP | mbr         | 48            |
| PSR J1746-3239  | 266.73 | -32.67 | 199.54 | 3.3e+34 | GU  | q           | 32,45         |
| PSR J1747-2958  | 266.82 | -29.97 | 98.81  | 2.5e+36 | R   | rx          | 14,45         |
| PSR J1747-4036  | 266.95 | -40.62 | 1.65   | 1.2e+35 | RUP | mr          | 39,42,45      |
| PSR J1748-2815  | 267.13 | -28.25 | 100.16 | 1.4e+35 | GU  | q           | 92            |
| PSR J1757-6032  | 269.44 | -60.54 | 2.91   | 4.8e+33 | RU  | mbr         | 87,102        |
| PSR J1757-2421  | 269.37 | -24.37 | 234.08 | 4e+34   | R   | r           | P24,75        |
| PSR J1801-2451  | 270.25 | -24.86 | 124.92 | 2.6e+36 | R   | r           | P9,45         |
| PSR J1803-6707  | 270.77 | -67.13 | 2.13   | 7.5e+34 | RU  | rmb         | 87,102        |
| PSR J1803-2149  | 270.79 | -21.82 | 106.33 | 6.4e+35 | GU  | q           | 32,45         |
| PSR J1805+0615  | 271.43 | 6.26   | 2.13   | 9.4e+34 | RUP | mbr         | P200,60,84    |
| PSR J1809-2332  | 272.46 | -23.54 | 146.79 | 4.3e+35 | G   | q           | 6,14,23,45    |
| PSR J1810+1744  | 272.66 | 17.74  | 1.66   | 4e+34   | RUP | mbr         | P6,45         |
| PSR J1811-2405  | 272.83 | -24.09 | 2.66   | 2.8e+34 | R   | mbr         | 50            |
| PSR J1813-1246  | 273.35 | -12.77 | 48.07  | 6.2e+36 | GU  | q           | 6,14,23,45    |
| PSR J1816-0755  | 274.10 | -7.92  | 217.64 | 2.5e+34 | R   | r           | P24,75        |
| PSR J1816+4510  | 274.15 | 45.18  | 3.19   | 5.2e+34 | RU  | mbr         | 37,42         |
| PSR J1817-1742  | 274.29 | -17.70 | 149.74 | 2.4e+35 | GU  | q           | 74            |
| PSR J1823-3021A | 275.92 | -30.36 | 5.44   | 8.3e+35 | R   | mr          | P7,36,45      |
| PSR J1824-0621  | 276.07 | -6.37  | 3.23   | 1.1e+34 | R   | mr <b>b</b> | 87            |
| PSR J1824-2452A | 276.13 | -24.87 | 3.05   | 2.2e+36 | R   | mr <b>x</b> | 45,48         |
| PSR J1824+1014  | 276.06 | 10.25  | 4.07   | 3.2e+33 | RUP | mbr         | 84            |
| PSR J1826-1256  | 276.54 | -12.94 | 110.22 | 3.6e+36 | G   | xq          | 6,14,23,45    |
| PSR J1827-0849  | 276.90 | -8.83  | 2.24   | 3.8e+34 | GU  | mq          | 78            |
| PSR J1827-1446  | 276.85 | -14.77 | 499.19 | 1.4e+34 | GU  | q           | P201,64       |
| PSR J1828-1101  | 277.08 | -11.03 | 72.05  | 1.6e+36 | R   | r           | P19,69        |
| PSR J1831-0952  | 277.89 | -9.87  | 67.27  | 1.1e+36 | R   | r           | P19,69        |
| PSR J1832-0836  | 278.11 | -8.62  | 2.72   | 1.7e+34 | R   | mr          | P200,68       |
| PSR J1833-3840  | 278.27 | -38.68 | 1.87   | 1.1e+35 | RUP | mbr         | 87            |
| PSR J1833-1034  | 278.39 | -10.57 | 61.88  | 3.4e+37 | R   | r           | 14,45         |
| PSR J1835-3259B | 278.94 | -32.99 | 1.83   | 2.8e+35 | R   | mr          | 98,99         |
| PSR J1835-1106  | 278.83 | -11.10 | 165.91 | 1.8e+35 | R   | r           | P13,45        |
| PSR J1836+5925  | 279.06 | 59.42  | 173.26 | 1.1e+34 | G   | q           | 6,14,16,23,45 |
| PSR J1837-0604  | 279.43 | -6.08  | 96.29  | 2e+36   | R   | r           | P19,69        |
| PSR J1838-0537  | 279.73 | -5.62  | 145.71 | 5.9e+36 | GU  | q           | 40,45         |
| PSR J1841-0524  | 280.45 | -5.41  | 445.83 | 1e+35   | R   | r           | P24,75        |
| PSR J1843-1113  | 280.92 | -11.23 | 1.85   | 6e+34   | R   | mr          | P17,45,56     |
| PSR J1844-0346  | 281.14 | -3.78  | 112.85 | 4.3e+36 | GU  | q           | P201,64       |
| PSR J1846-0258  | 281.60 | -2.97  | 326.57 | 8.1e+36 | X   | xq          | 96,97         |
| PSR J1846+0919  | 281.61 | 9.33   | 225.55 | 3.4e+34 | GU  | q           | 21,45         |
| PSR J1852-1310  | 283.08 | -13.17 | 4.31   | 5e+33   | RUP | mr          | 87            |
| PSR J1853-0004  | 283.35 | -0.08  | 101.44 | 2.1e+35 | R   | r           | P24,75        |
| PSR J1855-1436  | 283.98 | -14.60 | 3.59   | 9.3e+33 | RUP | mbr         | 53            |
| PSR J1856+0113  | 284.04 | 1.22   | 267.45 | 4.3e+35 | R   | r           | P19,69        |
| PSR J1857+0143  | 284.39 | 1.73   | 139.76 | 4.5e+35 | R   | r           | P19,69        |
| PSR J1857+0943  | 284.40 | 9.72   | 5.36   | 4.6e+33 | R   | mbr         | 87            |

|                |        |        |        |         |     |                  |               |
|----------------|--------|--------|--------|---------|-----|------------------|---------------|
| PSR J1858-5422 | 284.53 | -54.37 | 2.36   | 1.2e+34 | RU  | mbr              | 87,102        |
| PSR J1858-2216 | 284.57 | -22.28 | 2.38   | 1.1e+34 | RUP | mbr              | 42,45,53      |
| PSR J1901-0125 | 285.39 | -1.42  | 2.79   | 6.5e+34 | GU  | mr               | 78            |
| PSR J1902-5105 | 285.51 | -51.10 | 1.74   | 6.8e+34 | RUP | mbr              | 39,42,45      |
| PSR J1903-7051 | 285.91 | -70.86 | 3.60   | 9.9e+34 | RUP | mbr              | 62            |
| PSR J1906+0722 | 286.63 | 7.38   | 111.48 | 1e+36   | GU  | q                | P201,58       |
| PSR J1907+0602 | 286.98 | 6.04   | 106.63 | 2.8e+36 | G   | r                | 6,13,14,23,45 |
| PSR J1908+2105 | 287.24 | 21.08  | 2.56   | 3.3e+34 | RUP | mbr              | P200,60,84    |
| PSR J1909-3744 | 287.45 | -37.74 | 2.95   | 2.2e+34 | R   | mbr              | 68            |
| PSR J1913+0904 | 288.34 | 9.08   | 163.25 | 1.6e+35 | R   | r                | P17,45,56     |
| PSR J1913+1011 | 288.33 | 10.19  | 35.91  | 2.9e+36 | R   | r                | P24,75        |
| PSR J1921+0137 | 290.38 | 1.62   | 2.50   | 4.9e+34 | RUP | mbr              | 53            |
| PSR J1921+1929 | 290.35 | 19.49  | 2.65   | 8.1e+34 | R   | mbr              | 76            |
| PSR J1925+1720 | 291.36 | 17.34  | 75.66  | 9.5e+35 | R   | r                | P24,75        |
| PSR J1928+1746 | 292.18 | 17.77  | 68.73  | 1.6e+36 | R   | r                | P24,75        |
| PSR J1932+1916 | 293.08 | 19.28  | 208.21 | 4.1e+35 | GU  | q                | P201,51       |
| PSR J1932+2220 | 293.10 | 22.35  | 144.49 | 7.5e+35 | R   | r                | P24,75        |
| PSR J1935+2025 | 293.92 | 20.43  | 80.12  | 4.7e+36 | R   | r                | P200,68       |
| PSR J1939+2134 | 294.91 | 21.58  | 1.56   | 1.1e+36 | R   | mr <sub>x</sub>  | 31,45         |
| PSR J1946-5403 | 296.64 | -54.06 | 2.71   | 5.4e+33 | RUP | mbr              | P23,61        |
| PSR J1946+3417 | 296.60 | 34.29  | 3.17   | 3.9e+33 | R   | mbr              | P24,75        |
| PSR J1952+3252 | 298.24 | 32.88  | 39.49  | 3.7e+36 | RE  | rx               | 14,19,45      |
| PSR J1954+2836 | 298.58 | 28.60  | 92.71  | 1e+36   | GU  | q                | 21,45         |
| PSR J1954+3852 | 298.50 | 38.87  | 352.93 | 5.9e+33 | R   | r                | 87            |
| PSR J1957+5033 | 299.41 | 50.56  | 374.81 | 5.3e+33 | GU  | q                | 21,45         |
| PSR J1958+2846 | 299.67 | 28.76  | 290.39 | 3.4e+35 | GU  | q                | 6,14,23,45    |
| PSR J1959+2048 | 299.90 | 20.80  | 1.61   | 1.6e+35 | R   | mbr <sub>x</sub> | 31,45         |
| PSR J2006+0148 | 301.62 | 1.82   | 2.16   | 1.3e+34 | RUP | mbr              | 84            |
| PSR J2006+3102 | 301.55 | 31.03  | 163.70 | 2.2e+35 | R   | r                | P200,68       |
| PSR J2017-1614 | 304.44 | -16.24 | 2.31   | 7.8e+33 | RUP | mbr              | 53            |
| PSR J2017+0603 | 304.34 | 6.05   | 2.90   | 1.3e+34 | RUP | mbr              | 24,45         |
| PSR J2017+3625 | 304.48 | 36.42  | 166.75 | 1.2e+34 | GU  | q                | P201,64       |
| PSR J2021+3651 | 305.27 | 36.86  | 103.73 | 3.4e+36 | R   | r                | 8,14,45       |
| PSR J2021+4026 | 305.38 | 40.45  | 265.32 | 1.2e+35 | G   | q                | 6,14,23,33,45 |
| PSR J2022+3842 | 305.59 | 38.70  | 48.58  | 3e+37   | X   | rx               | P22           |
| PSR J2028+3332 | 307.08 | 33.53  | 176.71 | 3.5e+34 | GU  | q                | 32,45         |
| PSR J2029-4239 | 307.40 | -42.66 | 5.31   | 2.5e+33 | RU  | mr               | 87,100        |
| PSR J2030+3641 | 307.50 | 36.69  | 200.13 | 3.2e+34 | RU  | r                | P2,35,45      |
| PSR J2030+4415 | 307.72 | 44.26  | 227.07 | 2.2e+34 | GU  | q                | 32,45         |
| PSR J2032+4127 | 308.06 | 41.46  | 143.25 | 2.7e+35 | GU  | br               | 6,9,14,23,45  |
| PSR J2034+3632 | 308.75 | 36.54  | 3.65   | 1.4e+33 | GU  | m <sub>q</sub>   | 92            |
| PSR J2039-3616 | 309.82 | -36.27 | 3.28   | 1.1e+34 | R   | mbr              | 85            |
| PSR J2039-5617 | 309.90 | -56.29 | 2.65   | 3e+34   | GU  | mbr              | P28,83,89,91  |
| PSR J2042+0246 | 310.50 | 2.80   | 4.53   | 6e+33   | RU  | mbr              | 53            |
| PSR J2043+1711 | 310.84 | 17.19  | 2.38   | 1.5e+34 | RUP | mbr              | P5,41,45      |
| PSR J2043+2740 | 310.93 | 27.68  | 96.15  | 5.6e+34 | R   | r                | 14,27,45      |
| PSR J2047+1053 | 311.79 | 10.89  | 4.29   | 1.1e+34 | RUP | mbr              | 42,45         |
| PSR J2051-0827 | 312.78 | -8.46  | 4.51   | 5.5e+33 | R   | mbr              | 43,44,45      |
| PSR J2052+1218 | 313.20 | 12.33  | 1.99   | 3.4e+34 | RUP | mbr              | P200,60,84    |
| PSR J2055+2539 | 313.95 | 25.67  | 319.56 | 4.9e+33 | GU  | q                | 21,45         |
| PSR J2111+4606 | 317.85 | 46.11  | 157.83 | 1.4e+36 | GU  | q                | 32,45         |
| PSR J2115+5448 | 318.80 | 54.81  | 2.60   | 1.7e+35 | RUP | mbr              | 53,87         |
| PSR J2116+1345 | 319.21 | 13.76  | 2.22   | 9.6e+33 | RU  | rmb              | 87            |
| PSR J2116+3701 | 319.06 | 37.03  | 145.88 | —       | R   | r                | -1            |
| PSR J2124-3358 | 321.18 | -33.98 | 4.93   | 6.9e+33 | R   | mr <sub>x</sub>  | 7,14,45       |
| PSR J2129-0429 | 322.44 | -4.49  | 7.61   | 3e+34   | RUP | mbr              | 54            |
| PSR J2139+4716 | 324.98 | 47.27  | 282.85 | 3.1e+33 | GU  | q                | 32,45         |
| PSR J2205+6012 | 331.39 | 60.22  | 2.42   | 6.4e+34 | R   | mbr              | P200          |
| PSR J2208+4056 | 332.01 | 40.93  | 636.96 | 8.1e+32 | R   | r                | P24,75        |
| PSR J2214+3000 | 333.66 | 30.01  | 3.12   | 1.8e+34 | RUP | mbr <sub>x</sub> | 22,45         |
| PSR J2215+5135 | 333.89 | 51.59  | 2.61   | 5.2e+34 | RUP | mbr              | P6,45         |
| PSR J2229+6114 | 337.27 | 61.24  | 51.63  | 2.2e+37 | R   | rx               | 10,14         |
| PSR J2234+0944 | 338.70 | 9.74   | 3.63   | 1.6e+34 | RUP | mbr              | 54            |
| PSR J2238+5903 | 339.62 | 59.06  | 162.73 | 8.9e+35 | GU  | q                | 6,14,23       |
| PSR J2240+5832 | 340.18 | 58.54  | 139.94 | 2.2e+35 | R   | r                | 26            |
| PSR J2241-5236 | 340.43 | -52.61 | 2.19   | 2.5e+34 | RUP | mbr <sub>x</sub> | 25            |

|                |        |        |      |         |     |     |           |
|----------------|--------|--------|------|---------|-----|-----|-----------|
| PSR J2256-1024 | 344.23 | -10.41 | 2.29 | 5.2e+34 | R   | mbr | P6,45     |
| PSR J2302+4442 | 345.70 | 44.71  | 5.19 | 3.7e+33 | RUP | mbr | 24        |
| PSR J2310-0555 | 347.53 | -5.93  | 2.61 | 1.1e+34 | RUP | mbr | 53        |
| PSR J2317+1439 | 349.29 | 14.66  | 3.45 | 2.3e+33 | R   | mbr | P200,68   |
| PSR J2333-5526 | 353.32 | -55.44 | 2.10 | —       | RUP | mbr | 100,101   |
| PSR J2339-0533 | 354.91 | -5.55  | 2.88 | 2.2e+34 | RUP | mbr | P16,45,66 |

## Codes

|   |                                                                                         |
|---|-----------------------------------------------------------------------------------------|
| G | Discovered in Fermi-LAT gamma-ray data.                                                 |
| R | Discovered in the radio and/or gamma-ray pulsations detected using the radio ephemeris. |
| X | Discovered in the X-ray and/or gamma-ray pulsations detected using the X-ray ephemeris. |
| E | Pulsar was detected in gamma rays by EGRET/COMPTEL.                                     |
| P | Pulsar was discovered by the Pulsar Search Consortium.                                  |
| U | Discovered using a Fermi-LAT seed position.                                             |
| r | Pulsations detected in the radio band.                                                  |
| x | Pulsations detected in the X-ray band.                                                  |
| m | Millisecond pulsar.                                                                     |
| b | Pulsar is in a binary system.                                                           |
| q | Gamma pulsar with no radio detection                                                    |

## References

| Num | Citation                                                                                                                                                                                                                                                           |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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