

Curriculum Vitae - Dr. Paul B. Demorest

Contact Information

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 Socorro, NM 87801

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Education

2002–2007 Ph.D., Physics, University of California, Berkeley.
 Dissertation: *Measuring the Gravitational Wave Background using Precision Pulsar Timing*. Advisor: Prof. Donald Backer.

2000–2002 M.A., Physics, University of California, Berkeley.

1996–2000 B.A., Physics, University of California, Berkeley.
 GPA: 3.8. Honors: High distinction in general scholarship.

Research Experience

2014–present Associate Scientist, National Radio Astronomy Observatory,
 Socorro, NM.

2011–2014 Assistant Scientist, National Radio Astronomy Observatory,
 Charlottesville, VA.

2010–2011 Senior Research Associate, National Radio Astronomy Observatory,
 Charlottesville, VA.

2007–2010 Jansky Fellow, National Radio Astronomy Observatory,
 Charlottesville, VA.

2003–2007 Graduate Student Researcher, Astronomy Department, UC Berkeley.
 Supervisor: Prof. Donald Backer.

2001–2003 Graduate Student Researcher, Space Sciences Laboratory, UC Berkeley.
 Supervisor: Dr. Dan Werthimer.

Teaching Experience

- 2009–present Mentor, NRAO Research Experience for Undergraduates summer program.
- 2000–2002 Graduate Student Instructor, Advanced Undergraduate Lab (Physics 111), UC Berkeley. Supervisors: Profs. Sumner Davis, Joseph Orenstein, Roger Falcone, and James Siegrist.
- 2000–2004 Private tutoring in Physics, undergraduate and graduate level.

Meeting Organization

- 2016 Session organizer, URSI National Radio Science Meeting, Boulder, CO.
- 2013 SOC, NANOGrav Spring 2013 workshop, NRAO, Green Bank.
- 2012 SOC chair, NANOGrav Fall 2012 workshop, Oberlin.
- 2011 Local organizer, NANOGrav Fall 2011 workshop, NRAO, Charlottesville.
- 2010 Co-organizer, IPTA 2010: Detecting Gravitational Waves with Pulsars, Lorentz Center, Leiden, Netherlands.
- 2009 Main organizer, NANOGrav Fall 2009 Workshop, NRAO, Charlottesville.
- 2008–2009 Co-organizer, TUNA weekly lunch talk series, NRAO/UVa, Charlottesville.
- 2008 Local organizer, 2008 NRAO Postdoctoral Symposium, Charlottesville.
- 2007 Local organizer, North American Pulsar Timing Meeting, NRAO, Charlottesville.

Research Presentations, past five years

- 2016/08 US Radio Futures II, invited (Baltimore)
- 2016/06 IPTA 2016, invited (Stellenbosch)
- 2016/05 Neutron Stars in the Multimessenger Era, invited (Athens, OH)
- 2016/03 ASTRON Colloquium (Netherlands)
- 2016/01 URSI National Radio Science Meeting, invited (Boulder)
- 2015/12 US Radio Science Futures, invited (Chicago)
- 2015/12 Science at Low Frequencies II, invited (Albuquerque)
- 2015/11 New Mexico Tech Physics Colloquium
- 2015/10 China-US Radio Astronomy Meeting, invited (Shanghai)

2015/03	CIFAR Cosmology and Gravity, invited (Banff)
2015/01	AAS Meeting (Seattle)
2014/09	DRAO Galt Symposium, invited (Penticton)
2014/06	IPTA 2014 Meeting (Banff)
2014/05	CIFAR Cosmology and Gravity, invited (Quebec)
2014/01	AAS Meeting (Washington, DC)
2013/05	Neutron Star 2013 Symposium, invited (Amsterdam)
2013/01	Aspen Center for Physics, Pulsar Conference
2013/01	URSI National Radio Science Meeting (Boulder)
2012/11	Perimeter Institute Seminar (Toronto)
2012/09	University of Vermont Physics Colloquium
2012/06	IPTA 2012 Meeting (Sydney)
2012/01	URSI National Radio Science Meeting, invited (Boulder)

Socorro, NM, February 7, 2017

Refereed Publications

- [1] *A direct localization of a fast radio burst and its host*
S. Chatterjee, C. J. Law, R. S. Wharton, S. Burke-Spolaor, J. W. T. Hessels, G. C. Bower, J. M. Cordes, S. P. Tendulkar, C. G. Bassa, **P. B. Demorest**, B. J. Butler, A. Seymour, P. Scholz, M. W. Abruzzo, S. Bogdanov, V. M. Kaspi, A. Keimpema, T. J. W. Lazio, B. Marcote, M. A. McLaughlin, Z. Paragi, S. M. Ransom, M. Rupen, L. G. Spitler, and H. J. van Langevelde
Nature, 541:58–61, January 2017.
arXiv:1701.01098
- [2] *The Repeating Fast Radio Burst FRB 121102 as Seen on Milliarcsecond Angular Scales*
B. Marcote, Z. Paragi, J. W. T. Hessels, A. Keimpema, H. J. van Langevelde, Y. Huang, C. G. Bassa, S. Bogdanov, G. C. Bower, S. Burke-Spolaor, B. J. Butler, R. M. Campbell, S. Chatterjee, J. M. Cordes, **P. B. Demorest**, M. A. Garrett, T. Ghosh, V. M. Kaspi, C. J. Law, T. J. W. Lazio, M. A. McLaughlin, S. M. Ransom, C. J. Salter, P. Scholz, A. Seymour, A. Siemion, L. G. Spitler, S. P. Tendulkar, and R. S. Wharton
Astrophysical Journal, 834:L8, January 2017.
arXiv:1701.01099
- [3] *The Host Galaxy and Redshift of the Repeating Fast Radio Burst FRB 121102*
S. P. Tendulkar, C. G. Bassa, J. M. Cordes, G. C. Bower, C. J. Law, S. Chatterjee, E. A. K. Adams, S. Bogdanov, S. Burke-Spolaor, B. J. Butler, **P. B. Demorest**, J. W. T. Hessels, V. M. Kaspi, T. J. W. Lazio, N. Maddox, B. Marcote, M. A. McLaughlin, Z. Paragi, S. M. Ransom, P. Scholz, A. Seymour, L. G. Spitler, H. J. van Langevelde, and R. S. Wharton
Astrophysical Journal, 834:L7, January 2017.
arXiv:1701.01100
- [4] *The NANOGrav Nine-year Data Set: Excess Noise in Millisecond Pulsar Arrival Times*
M. T. Lam, J. M. Cordes, S. Chatterjee, Z. Arzoumanian, K. Crowter, **P. B. Demorest**, T. Dolch, J. A. Ellis, R. D. Ferdman, E. Fonseca, M. E. Gonzalez, G. Jones, M. L. Jones, L. Levin, D. R. Madison, M. A. McLaughlin, D. J. Nice, T. T. Pennucci, S. M. Ransom, R. M. Shannon, X. Siemens, I. H. Stairs, K. Stovall, J. K. Swiggum, and W. W. Zhu
Astrophysical Journal, 834:35, January 2017.
arXiv:1610.01731
- [5] *The NANOGrav Nine-year Data Set: Mass and Geometric Measurements of Binary Millisecond Pulsars*
E. Fonseca, T. T. Pennucci, J. A. Ellis, I. H. Stairs, D. J. Nice, S. M. Ransom, **P. B. Demorest**, Z. Arzoumanian, K. Crowter, T. Dolch, R. D. Ferdman, M. E. Gonzalez, G. Jones, M. L. Jones, M. T. Lam, L. Levin, M. A. McLaughlin, K. Stovall, J. K. Swiggum, and W. Zhu

Astrophysical Journal, 832:167, December 2016.
arXiv:1603.00545

- [6] *Swift J174540.7–290015: a new accreting binary in the Galactic Centre*
G. Ponti, C. Jin, B. De Marco, N. Rea, A. Rau, F. Haberl, F. Coti Zelati, E. Bozzo, C. Ferrigno, G. C. Bower, and **P. B. Demorest**
MNRAS, 461:2688–2701, September 2016.
arXiv:1606.01138
- [7] *PSR J1024–0719: A Millisecond Pulsar in an Unusual Long-period Orbit*
D. L. Kaplan, T. Kupfer, D. J. Nice, A. Irrgang, U. Heber, Z. Arzoumanian, E. Beklen, K. Crowter, M. E. DeCesar, **P. B. Demorest**, T. Dolch, J. A. Ellis, R. D. Ferdman, E. C. Ferrara, E. Fonseca, P. A. Gentile, G. Jones, M. L. Jones, S. Kreuzer, M. T. Lam, L. Levin, D. R. Lorimer, R. S. Lynch, M. A. McLaughlin, A. A. Miller, C. Ng, T. T. Pennucci, T. A. Prince, S. M. Ransom, P. S. Ray, R. Spiewak, I. H. Stairs, K. Stovall, J. Swiggum, and W. Zhu
Astrophysical Journal, 826:86, July 2016.
arXiv:1604.00131
- [8] *From spin noise to systematics: stochastic processes in the first International Pulsar Timing Array data release*
L. Lentati, R. M. Shannon, W. A. Coles, J. P. W. Verbiest, R. van Haasteren, J. A. Ellis, R. N. Caballero, R. N. Manchester, Z. Arzoumanian, S. Babak, C. G. Bassa, N. D. R. Bhat, P. Brem, M. Burgay, S. Burke-Spolaor, D. Champion, S. Chatterjee, I. Cognard, J. M. Cordes, S. Dai, **P. B. Demorest**, G. Desvignes, T. Dolch, R. D. Ferdman, E. Fonseca, J. R. Gair, M. E. Gonzalez, E. Graikou, L. Guillemot, J. W. T. Hessels, G. Hobbs, G. H. Janssen, G. Jones, R. Karuppusamy, M. Keith, M. Kerr, M. Kramer, M. T. Lam, P. D. Lasky, A. Lassus, P. Lazarus, T. J. W. Lazio, K. J. Lee, L. Levin, K. Liu, R. S. Lynch, D. R. Madison, J. McKee, M. McLaughlin, S. T. McWilliams, C. M. F. Mingarelli, D. J. Nice, S. Osłowski, T. T. Pennucci, B. B. P. Perera, D. Perrodin, A. Petiteau, A. Possenti, S. M. Ransom, D. Reardon, P. A. Rosado, S. A. Sanidas, A. Sesana, G. Shaifullah, X. Siemens, R. Smits, I. Stairs, B. Stappers, D. R. Stinebring, K. Stovall, J. Swiggum, S. R. Taylor, G. Theureau, C. Tiburzi, L. Toomey, M. Vallisneri, W. van Straten, A. Vecchio, J.-B. Wang, Y. Wang, X. P. You, W. W. Zhu, and X.-J. Zhu
MNRAS, 458:2161–2187, May 2016.
arXiv:1602.05570
- [9] *The International Pulsar Timing Array: First data release*
J. P. W. Verbiest, L. Lentati, G. Hobbs, R. van Haasteren, **P. B. Demorest**, G. H. Janssen, J.-B. Wang, G. Desvignes, R. N. Caballero, M. J. Keith, D. J. Champion, Z. Arzoumanian, S. Babak, C. G. Bassa, N. D. R. Bhat, A. Brazier, P. Brem, M. Burgay, S. Burke-Spolaor, S. J. Chamberlin, S. Chatterjee, B. Christy, I. Cognard, J. M.

- Cordes, S. Dai, T. Dolch, J. A. Ellis, R. D. Ferdman, E. Fonseca, J. R. Gair, N. E. Garver-Daniels, P. Gentile, M. E. Gonzalez, E. Graikou, L. Guillemot, J. W. T. Hessels, G. Jones, R. Karuppusamy, M. Kerr, M. Kramer, M. T. Lam, P. D. Lasky, A. Lassus, P. Lazarus, T. J. W. Lazio, K. J. Lee, L. Levin, K. Liu, R. S. Lynch, A. G. Lyne, J. McKee, M. A. McLaughlin, S. T. McWilliams, D. R. Madison, R. N. Manchester, C. M. F. Mingarelli, D. J. Nice, S. Osłowski, N. T. Palliyaguru, T. T. Pennucci, B. B. P. Perera, D. Perrodin, A. Possenti, A. Petiteau, S. M. Ransom, D. Reardon, P. A. Rosado, S. A. Sanidas, A. Sesana, G. Shaifullah, R. M. Shannon, X. Siemens, J. Simon, R. Smits, R. Spiewak, I. H. Stairs, B. W. Stappers, D. R. Stinebring, K. Stovall, J. K. Swiggum, S. R. Taylor, G. Theureau, C. Tiburzi, L. Toomey, M. Vallisneri, W. van Straten, A. Vecchio, Y. Wang, L. Wen, X. P. You, W. W. Zhu, and X.-J. Zhu
MNRAS, 458:1267–1288, May 2016.
arXiv:1602.03640
- [10] *The NANOGrav Nine-year Data Set: Limits on the Isotropic Stochastic Gravitational Wave Background*
Z. Arzoumanian, A. Brazier, S. Burke-Spolaor, S. J. Chamberlin, S. Chatterjee, B. Christy, J. M. Cordes, N. J. Cornish, K. Crowter, **P. B. Demorest**, X. Deng, T. Dolch, J. A. Ellis, R. D. Ferdman, E. Fonseca, N. Garver-Daniels, M. E. Gonzalez, F. Jenet, G. Jones, M. L. Jones, V. M. Kaspi, M. Koop, M. T. Lam, T. J. W. Lazio, L. Levin, A. N. Lommen, D. R. Lorimer, J. Luo, R. S. Lynch, D. R. Madison, M. A. McLaughlin, S. T. McWilliams, C. M. F. Mingarelli, D. J. Nice, N. Palliyaguru, T. T. Pennucci, S. M. Ransom, L. Sampson, S. A. Sanidas, A. Sesana, X. Siemens, J. Simon, I. H. Stairs, D. R. Stinebring, K. Stovall, J. Swiggum, S. R. Taylor, M. Vallisneri, R. van Haasteren, Y. Wang, W. W. Zhu, and NANOGrav Collaboration
Astrophysical Journal, 821:13, April 2016.
arXiv:1508.03024
- [11] *The NANOGrav Nine-year Data Set: Noise Budget for Pulsar Arrival Times on Intraday Timescales*
M. T. Lam, J. M. Cordes, S. Chatterjee, Z. Arzoumanian, K. Crowter, **P. B. Demorest**, T. Dolch, J. A. Ellis, R. D. Ferdman, E. F. Fonseca, M. E. Gonzalez, G. Jones, M. L. Jones, L. Levin, D. R. Madison, M. A. McLaughlin, D. J. Nice, T. T. Pennucci, S. M. Ransom, X. Siemens, I. H. Stairs, K. Stovall, J. K. Swiggum, and W. W. Zhu
Astrophysical Journal, 819:155, March 2016.
arXiv:1512.08326
- [12] *The NANOGrav Nine-year Data Set: Monitoring Interstellar Scattering Delays*
L. Levin, M. A. McLaughlin, G. Jones, J. M. Cordes, D. R. Stinebring, S. Chatterjee, T. Dolch, M. T. Lam, T. J. W. Lazio, N. Palliyaguru, Z. Arzoumanian, K. Crowter, **P. B. Demorest**, J. A. Ellis, R. D. Ferdman, E. Fonseca, M. E. Gonzalez, M. L. Jones, D. J. Nice, T. T. Pennucci, S. M. Ransom, I. H. Stairs, K. Stovall, J. K. Swiggum, and W. Zhu

- Astrophysical Journal*, 818:166, February 2016.
arXiv:1601.04490
- [13] *The NANOGrav Nine-year Data Set: Astrometric Measurements of 37 Millisecond Pulsars*
A. M. Matthews, D. J. Nice, E. Fonseca, Z. Arzoumanian, K. Crowter, **P. B. Demorest**,
T. Dolch, J. A. Ellis, R. D. Ferdman, M. E. Gonzalez, G. Jones, M. L. Jones, M. T. Lam,
L. Levin, M. A. McLaughlin, T. T. Pennucci, S. M. Ransom, I. H. Stairs, K. Stovall, J. K.
Swiggum, and W. Zhu
Astrophysical Journal, 818:92, February 2016.
arXiv:1509.08982
- [14] *Correcting for Interstellar Scattering Delay in High-precision Pulsar Timing: Simulation
Results*
N. Palliyaguru, D. Stinebring, M. McLaughlin, **P. B. Demorest**, and G. Jones
Astrophysical Journal, 815:89, December 2015.
arXiv:1511.04139
- [15] *Absolute polarization determinations of 33 pulsars using the Green Bank Telescope*
M. M. Force, **P. B. Demorest**, and J. M. Rankin
MNRAS, 453:4485–4499, November 2015.
- [16] *The Feasibility of Using Black Widow Pulsars in Pulsar Timing Arrays for Gravitational
Wave Detection*
C. Bochenek, S. Ransom, and **P. B. Demorest**
Astrophysical Journal, 813:L4, November 2015.
arXiv:1509.06662
- [17] *The NANOGrav Nine-year Data Set: Observations, Arrival Time Measurements, and
Analysis of 37 Millisecond Pulsars*
NANOGrav Collaboration, Z. Arzoumanian, A. Brazier, S. Burke-Spolaor, S. Chamber-
lin, S. Chatterjee, B. Christy, J. M. Cordes, N. Cornish, K. Crowter, **P. B. Demorest**,
T. Dolch, J. A. Ellis, R. D. Ferdman, E. Fonseca, N. Garver-Daniels, M. E. Gonza-
lez, F. A. Jenet, G. Jones, M. L. Jones, V. M. Kaspi, M. Koop, M. T. Lam, T. J. W.
Lazio, L. Levin, A. N. Lommen, D. R. Lorimer, J. Luo, R. S. Lynch, D. Madison, M. A.
McLaughlin, S. T. McWilliams, D. J. Nice, N. Palliyaguru, T. T. Pennucci, S. M. Ran-
som, X. Siemens, I. H. Stairs, D. R. Stinebring, K. Stovall, J. K. Swiggum, M. Vallisneri,
R. van Haasteren, Y. Wang, and W. Zhu
Astrophysical Journal, 813:65, November 2015.
arXiv:1505.07540
- [18] *NANOGrav Constraints on Gravitational Wave Bursts with Memory*
NANOGrav Collaboration, Z. Arzoumanian, A. Brazier, S. Burke-Spolaor, S. J. Cham-
berlin, S. Chatterjee, B. Christy, J. M. Cordes, N. J. Cornish, **P. B. Demorest**, X. Deng,

- T. Dolch, J. A. Ellis, R. D. Ferdman, E. Fonseca, N. Garver-Daniels, F. Jenet, G. Jones, V. M. Kaspi, M. Koop, M. T. Lam, T. J. W. Lazio, L. Levin, A. N. Lommen, D. R. Lorimer, J. Luo, R. S. Lynch, D. R. Madison, M. A. McLaughlin, S. T. McWilliams, D. J. Nice, N. Palliyaguru, T. T. Pennucci, S. M. Ransom, X. Siemens, I. H. Stairs, D. R. Stinebring, K. Stovall, J. Swiggum, M. Vallisneri, R. van Haasteren, Y. Wang, W. W. Zhu, and NANOGrav Collaboration
Astrophysical Journal, 810:150, September 2015.
arXiv:1501.05343
- [19] *Testing Theories of Gravitation Using 21-Year Timing of Pulsar Binary J1713+0747*
W. W. Zhu, I. H. Stairs, **P. B. Demorest**, D. J. Nice, J. A. Ellis, S. M. Ransom, Z. Arzoumanian, K. Crowter, T. Dolch, R. D. Ferdman, E. Fonseca, M. E. Gonzalez, G. Jones, M. L. Jones, M. T. Lam, L. Levin, M. A. McLaughlin, T. Pennucci, K. Stovall, and J. Swiggum
Astrophysical Journal, 809:41, August 2015.
arXiv:1504.00662
- [20] *A Broadband Radio Study of the Average Profile and Giant Pulses from PSR B1821–24A*
A. V. Bilous, T. T. Pennucci, **P. B. Demorest**, and S. M. Ransom
Astrophysical Journal, 803:83, April 2015.
arXiv:1412.7629
- [21] *The Proper Motion of the Galactic Center Pulsar Relative to Sagittarius A**
G. C. Bower, A. Deller, **P. B. Demorest**, A. Brunthaler, H. Falcke, M. Moscibrodzka, R. M. O’Leary, R. P. Eatough, M. Kramer, K. J. Lee, L. Spitler, G. Desvignes, A. P. Rushton, S. Doeleman, and M. J. Reid
Astrophysical Journal, 798:120, January 2015.
arXiv:1411.0399
- [22] *Observing Radio Pulsars in the Galactic Centre with the Square Kilometre Array*
R. Eatough, T. J. W. Lazio, J. Casanellas, S. Chatterjee, J. M. Cordes, **P. B. Demorest**, M. Kramer, K. J. Lee, K. Liu, S. M. Ransom, and N. Wex
Advancing Astrophysics with the Square Kilometre Array (AASKA14), page 45, 2015.
arXiv:1501.00281
- [23] *Probing the neutron star interior and the Equation of State of cold dense matter with the SKA*
A. Watts, C. M. Espinoza, R. Xu, N. Andersson, J. Antoniadis, D. Antonopoulou, S. Buchner, S. Datta, **P. B. Demorest**, P. Freire, J. Hessels, J. Margueron, M. Oerter, A. Patruno, A. Possenti, S. Ransom, I. Stairs, and B. Stappers
Advancing Astrophysics with the Square Kilometre Array (AASKA14), page 43, 2015.
arXiv:1501.00042

- [24] *Gravitational Waves from Individual Supermassive Black Hole Binaries in Circular Orbits: Limits from the North American Nanohertz Observatory for Gravitational Waves*
NANOGrav Collaboration, Z. Arzoumanian, A. Brazier, S. Burke-Spolaor, S. J. Chamberlin, S. Chatterjee, J. M. Cordes, **P. B. Demorest**, X. Deng, T. Dolch, J. A. Ellis, R. D. Ferdman, N. Garver-Daniels, F. Jenet, G. Jones, V. M. Kaspi, M. Koop, M. T. Lam, T. J. W. Lazio, A. N. Lommen, D. R. Lorimer, J. Luo, R. S. Lynch, D. R. Madison, M. A. McLaughlin, S. T. McWilliams, D. J. Nice, N. Palliyaguru, T. T. Pennucci, S. M. Ransom, A. Sesana, X. Siemens, I. H. Stairs, D. R. Stinebring, K. Stovall, J. Swiggum, M. Vallisneri, R. van Haasteren, Y. Wang, W. W. Zhu, and NANOGrav Collaboration
Astrophysical Journal, 794:141, October 2014.
arXiv:1404.1267
- [25] *A 24 Hr Global Campaign to Assess Precision Timing of the Millisecond Pulsar J1713+0747*
T. Dolch, M. T. Lam, J. Cordes, S. Chatterjee, C. Bassa, B. Bhattacharyya, D. J. Champion, I. Cognard, K. Crowter, P. B. Demorest, J. W. T. Hessels, G. Janssen, F. A. Jenet, G. Jones, C. Jordan, R. Karuppusamy, M. Keith, V. Kondratiev, M. Kramer, P. Lazarus, T. J. W. Lazio, K. J. Lee, M. A. McLaughlin, J. Roy, R. M. Shannon, I. Stairs, K. Stovall, J. P. W. Verbiest, D. R. Madison, N. Palliyaguru, D. Perrodin, S. Ransom, B. Stappers, W. W. Zhu, S. Dai, G. Desvignes, L. Guillemot, K. Liu, A. Lyne, B. B. P. Perera, E. Petroff, J. M. Rankin, and R. Smits
Astrophysical Journal, 794:21, October 2014.
arXiv:1408.1694
- [26] *PSR J1756-2251: a pulsar with a low-mass neutron star companion*
R. D. Ferdman, I. H. Stairs, M. Kramer, G. H. Janssen, C. G. Bassa, B. W. Stappers, **P. B. Demorest**, I. Cognard, G. Desvignes, G. Theureau, M. Burgay, A. G. Lyne, R. N. Manchester, and A. Possenti
MNRAS, 443:2183–2196, September 2014.
arXiv:1406.5507
- [27] *Elementary Wideband Timing of Radio Pulsars*
T. T. Pennucci, **P. B. Demorest**, and S. M. Ransom
Astrophysical Journal, 790:93, August 2014.
arXiv:1402.1672
- [28] *The Angular Broadening of the Galactic Center Pulsar SGR J1745-29: A New Constraint on the Scattering Medium*
G. C. Bower, A. Deller, **P. B. Demorest**, A. Brunthaler, R. Eatough, H. Falcke, M. Kramer, K. J. Lee, and L. Spitler
Astrophysical Journal, 780:L2, January 2014.
arXiv:1309.4672

- [29] *Cyclic Spectroscopy of The Millisecond Pulsar, B1937+21*
M. A. Walker, **P. B. Demorest**, and W. van Straten
Astrophysical Journal, 779:99, December 2013.
arXiv:1310.3535
- [30] *Pulsar timing techniques*
A. N. Lommen and **P. B. Demorest**
Classical and Quantum Gravity, 30(22):224001, November 2013.
arXiv:1309.1767
- [31] *A strong magnetic field around the supermassive black hole at the centre of the Galaxy*
R. P. Eatough, H. Falcke, R. Karuppusamy, K. J. Lee, D. J. Champion, E. F. Keane, G. Desvignes, D. H. F. M. Schnitzeler, L. G. Spitler, M. Kramer, B. Klein, C. Bassa, G. C. Bower, A. Brunthaler, I. Cognard, A. T. Deller, **P. B. Demorest**, P. C. C. Freire, A. Kraus, A. G. Lyne, A. Noutsos, B. Stappers, and N. Wex
Nature, 501:391–394, September 2013.
arXiv:1308.3147
- [32] *The Einstein@Home Search for Radio Pulsars and PSR J2007+2722 Discovery*
B. Allen, B. Knispel, J. M. Cordes, J. S. Deneva, J. W. T. Hessels, D. Anderson, C. Aulbert, O. Bock, A. Brazier, S. Chatterjee, **P. B. Demorest**, H. B. Eggenstein, H. Fehrmann, E. V. Gotthelf, D. Hammer, V. M. Kaspi, M. Kramer, A. G. Lyne, B. Machenschalk, M. A. McLaughlin, C. Messenger, H. J. Pletsch, S. M. Ransom, I. H. Stairs, B. W. Stappers, N. D. R. Bhat, S. Bogdanov, F. Camilo, D. J. Champion, F. Crawford, G. Desvignes, P. C. C. Freire, G. Heald, F. A. Jenet, P. Lazarus, K. J. Lee, J. van Leeuwen, R. Lynch, M. A. Papa, R. Prix, R. Rosen, P. Scholz, X. Siemens, K. Stovall, A. Venkataraman, and W. Zhu
Astrophysical Journal, 773:91, August 2013.
arXiv:1303.0028
- [33] *A 1.1-1.9 GHz SETI Survey of the Kepler Field. I. A Search for Narrow-band Emission from Select Targets*
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