

David J. Nice  
Curriculum Vitae and Publications

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Physics Department  
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**Positions Held:**

Lafayette College

2024– Charles A. Dana Professor, Physics  
2019–2024 Professor, Physics  
2016–2024 Department Head, Physics  
2010–2019 Associate Professor, Physics

Bryn Mawr College

2005–2010 Visiting Assistant Professor, Physics

Princeton University

1997–2005 Assistant Professor, Physics  
1996–1997 Lecturer, Physics

National Radio Astronomy Observatory

1993–1996 Jansky Postdoctoral Fellow

University of Virginia

1995 Lecturer, Astronomy

Princeton University

1992–1993 Research Associate, Physics

**Education:**

1992 Ph.D., Physics, Princeton University  
Dissertation: *Two High-Sensitivity Pulsar Searches* (doi:10.5281/zenodo.49375)  
Supervisor: *Prof. Joseph H. Taylor, Jr.*  
1989 M.A., Physics, Princeton University  
1987 B.S. with Honor, Physics, California Institute of Technology

**Research Interests:**

Radio telescope observations of pulsars  
Tests of relativistic gravity  
Binary star evolution  
Characteristics and physics of neutron stars  
Radio telescope instrumentation, software, and data analysis  
Gravitational waves at nanohertz frequencies (NANOGrav collaboration)

**Selected Service Work (at Lafayette College unless otherwise indicated):**

- 2024 Member, Working at Lafayette Strategic Plan Working Group
- 2023– Member, Promotion, Tenure, and Review Committee
- 2023 Co-chair, Vice President for Student Life Search Committee
- 2023 Chair, Physics Visiting Faculty Search Committee (two positions)
- 2022–2023 Member, Faculty Academic Policy Committee
- 2022–2023 Faculty Associate, Trustees Committee on Student Life, Lafayette Coll.
- 2022 Chair, Physics Visiting Faculty Search Committee (two positions)
- 2021–2024 Member, Management Team, NANOGrav collaboration
- 2021–2022 Alternate Faculty Associate, Trustees Committee on Student Life
- 2020–2021 Member, Faculty Academic Policy Committee
- 2011–2020 Chair, Pulsar Timing Working Group, NANOGrav collaboration
- 2018–2019 Chair, Academic Research Committee
- 2016–2019 Member, Academic Research Committee
- 2019 Organizer, NANOGrav Timing Working Group Workshop (held at Lafayette)
- 2019 Chair, Physics Faculty Search Committee
- 2019 Chair, Physics Visiting Faculty Search Committee
- 2017 Organizer, NANOGrav Collaboration Workshop (held at Lafayette)
- 2017 Honors Examiner, Oberlin College Physics Department
- 2017 Chair, Physics Faculty Search Committee (two positions)
- 2017 Chair, Physics Visiting Faculty Search Committee
- 2015 Member, Math Visiting Faculty Search Committee
- 2014–2015 Chair, Information Technology & Library Committee
- 2013–2015 Member, Information Technology & Library Committee
- 2014 Chair, Scientific Org. Committee, Int'l Pulsar Timing Array meeting, Banff
- 2013–2014 Member, Electrical & Computer Engineering Faculty Search Committee
- 2011–2012 Chair, Ad Hoc Publication Policy Group, NANOGrav collaboration
- 2011 Special Session Organizer, American Astronomical Society Meeting, Seattle
- 2008–2011 Chair, Student Observing Support Committee, Nat'l Radio Astronomy Obs.
- 2004–2011 Member, Student Observing Support Committee, Nat'l Radio Astronomy Obs.
- 2008 Session Organizer, Texas Symposium on Relativistic Astrophysics, Vancouver
- 2008 Scientific Organizing Committee, Int'l Pulsar Timing Array Meeting, Arecibo, PR
- 2005–2007 Member, Users Committee, National Astronomy and Ionosphere Center
- 2003–2005 Member, Committee on Undergraduate Life, Princeton University
- 2003 Organizer, Baseband Recorder Workshop, IAU Symposium 218, Sydney
- 2002 Organizer, Radio Pulsars Conference, Chania, Crete
- 2001 Chair, Users Committee, National Radio Astronomy Observatory
- 2001 Honors Examiner, Oberlin College Physics Department
- 1998–2004 Academic Adviser & Faculty Fellow, Mathey College, Princeton University
- 1998–2001 Member, Users Committee, National Radio Astronomy Observatory

# Publications

## Books Edited:

### 1. **Radio Pulsars**

M. Bailes, D. J. Nice, and S. E. Thorsett, editors  
2003 (San Francisco: Astronomical Society of the Pacific)  
ISBN: 1-58381-151-6

## Peer-Reviewed Publications:

### 1. **The Anomalous Acceleration of PSR J2043+1711: Long-Period Orbital Companion or Stellar Flyby?**

T. Donlon *et al.* (NANOGrav timing group)  
*Astrophysical Journal*, accepted March 2025  
arXiv:2407.06482

### 2. **A 34-Year Timing Solution of the Redback Millisecond Pulsar Terzan 5A**

A. C. Rosenthal *et al.*  
*Astrophysical Journal*, accepted January 2025  
arXiv:2410.21648

### 3. **The NANOGrav 15 yr Data Set: Posterior Predictive Checks for Gravitational-Wave Detection with Pulsar Timing Arrays**

G. Agazie *et al.* (NANOGrav collaboration)  
*Physical Review D*, 111, 042011 (2025)  
doi:10.1103/PhysRevD.111.042011, arXiv:2407.20510

### 4. **The NANOGrav 15 yr Data Set: Running of the Spectral Index**

G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 978, L29 (2025)  
doi:10.3847/2041-8213/ad99d3, arXiv:2408.10166

### 5. **The NANOGrav 15 yr Data Set: Removing Pulsars One by One from the Pulsar Timing Array**

G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal*, 978, 168 (2025)  
doi:10.3847/1538-4357/ad93aa, arXiv:2411.14846

### 6. **The NANOGrav 15 yr Data Set: Looking for Signs of Discreteness in the Gravitational-wave Background**

G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal*, 978, 31 (2025)  
doi:10.3847/1538-4357/ad93d5, arXiv:2404.07020

### 7. **Exploring Pulsar Timing precision: A Comparative Study of Polarization Calibration Methods for NANOGrav Data from the Green Bank Telescope**

L. Dey *et al.* (NANOGrav timing group)  
*Astrophysical Journal*, 977, 114 (2024)  
doi:10.3847/1538-4357/ad8c24, arXiv:2406.13463

### 8. **The NANOGrav 15-year Gravitational-Wave Background Methods**

A. D. Johnson *et al.* (NANOGrav collaboration)  
*Physical Review D*, 109, 103012 (2024)  
doi:10.1103/PhysRevD.109.103012, arXiv:2306.16223

9. **The NANOGrav 15 yr Data Set: Chromatic Gaussian Process Noise Model for Six Pulsars**  
B. Larsen *et al.* (NANOGrav timing group and others)  
*Astrophysical Journal*, 972, 49 (2024)  
doi:10.3847/1538-4357/ad5291, arXiv:2405.14941
10. **Comparing Recent PTA Results on the Nanohertz Stochastic Gravitational Wave Background**  
G. Agazie *et al.* (International Pulsar Timing Array)  
*Astrophysical Journal*, 966, 105 (2024)  
doi:10.3847/1538-4357/ad36be, arXiv:2309.00693
11. **The NANOGrav 12.5-year Data Set: Dispersion Mis-Estimation with Varying Bandwidths**  
S. V. Sosa Fiscella *et al.* (NANOGrav Noise Budget and Timing Working Groups)  
*Astrophysical Journal*, 966, 95 (2024)  
doi:10.3847/1538-4357/ad2858, arXiv:2307.13248
12. **An Unusual Pulse Shape Change Event in PSR J1713+0747 Observed with the Green Bank Telescope and CHIME**  
R. Jennings *et al.* (NANOGrav Noise Budget and Timing Working Groups; CHIME/Pulsar)  
*Astrophysical Journal*, 964, 179 (2024)  
doi:10.3847/1538-4357/ad2930, arXiv:2210.12266
13. **The NANOGrav 15-year Data Set: Search for Transverse Polarization Modes in the Gravitational-Wave Background**  
G. Agazie *et al.* (NANOGrav Collaboration)  
*Astrophysical Journal Letters*, 964, L14 (2024)  
doi:10.3847/2041-8213/ad2a51, arXiv:2310.12138
14. **The NANOGrav 12.5-year data set: A Computationally Efficient Eccentric Binary Search Pipeline and Constraints on an Eccentric Supermassive Binary in 3C 66B**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal*, 963, 144 (2024)  
doi:10.3847/1538-4357/ad1f61, arXiv:2309.17438
15. **The NANOGrav 12.5-year Data Set: Search for Gravitational Wave Memory**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal*, 963, 61 (2024)  
doi:10.3847/1538-4357/ad0726, arXiv:2307.13797
16. **How to Detect an Astrophysical Nanohertz Gravitational Wave Background**  
B. Bécsy *et al.* (NANOGrav collaboration)  
*Astrophysical Journal*, 959, 9 (2023)  
doi:10.3847/1538-4357/ad09e4, arXiv:2309.04443
17. **The NANOGrav 15-year Data Set: Search for Anisotropy in the Gravitational-Wave Background**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 956, L3 (2023)  
doi:10.3847/2041-8213/acf4fd, arXiv:2306.16221
18. **The NANOGrav 15-year Data Set: Constraints on Supermassive Black Hole Binaries from the Gravitational Wave Background**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 952, L37 (2023)  
doi:10.3847/2041-8213/ace18b, arXiv:2306.16220

19. **The NANOGrav 15-year data set: Bayesian Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L50 (2023)  
doi:10.3847/2041-8213/ace18a, arXiv:2306.16222
20. **The NANOGrav 12.5-year data set: Bayesian Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries**  
Z. Arzoumanian *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L28 (2023)  
doi:10.3847/2041-8213/acdbc7, arXiv:2301.03608
21. **The NANOGrav 15-year Data Set: Evidence for a Gravitational-Wave Background**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L8, (2023)  
doi:10.3847/2041-8213/acdac6, arXiv:2306.16213
22. **The NANOGrav 15-year Data Set: Observations and Timing of 68 Millisecond Pulsars**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L9 (2023)  
doi:10.3847/2041-8213/acda9a, arXiv:2306.16217
23. **The NANOGrav 15-year Data Set: Detector Characterization and Noise Budget**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L10 (2023)  
doi:10.3847/2041-8213/acda88, arXiv:2306.16218
24. **The NANOGrav 15-year Data Set: Search for Signals from New Physics**  
A. Afzalet *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L11 (2023)  
doi:10.3847/2041-8213/acdc91, arXiv:2306.16219
25. **Searching for continuous Gravitational Waves in the second data release of the International Pulsar Timing Array**  
M. Falxa *et al.* (International Pulsar Timing Array collaboration)  
*Monthly Notices of the Royal Astronomical Society*, 521, 5077 (2023)  
doi:10.1093/mnras/stad812, arXiv:2303.10767
26. **Bayesian Solar Wind Modeling with Pulsar Timing Arrays**  
J. S. Hazboun *et al.* (NANOGrav Timing and Noise Budget Working Groups)  
*Astrophysical Journal*, 929, 39 (2022)  
doi:10.3847/1538-4357/ac5829, arXiv:2111.09361
27. **The NANOGrav 12.5-year Data Set: Polarimetry, Rotation Measures, and Galactic Magnetic Field Strengths from NANOGrav Observations with the Green Bank Telescope**  
H. M. Wahl *et al.* (NANOGrav Timing Working Group)  
*Astrophysical Journal*, 168, 23 (2022)  
doi:10.3847/1538-4357/ac4045, arXiv:2104.05723
28. **The International Pulsar Timing Array second data release: Search for an isotropic Gravitational Wave Background**  
J. Antoniadis *et al.* (International Pulsar Timing Array collaboration)  
*Monthly Notices of the Royal Astronomical Society*, 510, 4873 (2022)  
doi:10.1093/mnras/stab3418, arXiv:2201.03980

29. **Searching For Gravitational Waves From Cosmological Phase Transitions With The NANOGrav 12.5-year dataset**  
Z. Arzoumanian *et al.* (NANOGrav collaboration)  
*Physical Review Letters*, 127, 251302 (2021)  
doi:10.1103/PhysRevLett.127.251302, arXiv:2104.13930
30. **The NANOGrav 12.5-year Data Set: Search for Non-Einsteinian Polarization Modes in the Gravitational-Wave Background**  
Z. Arzoumanian *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 923, L22 (2021)  
doi:10.3847/2041-8213/ac401c, arXiv:2109.14706
31. **The NANOGrav 12.5-year Data Set: Monitoring Interstellar Scattering Delays**  
J. E. Turner *et al.*  
*Astrophysical Journal*, 917, 10 (2021)  
doi:10.3847/1538-4357/abfafe, arXiv:2012.09884
32. **Refined Mass and Geometric Measurements of the High-Mass PSR J0740+6620**  
E. Fonseca *et al.*  
*Astrophysical Journal Letters*, 915, L12 (2021)  
doi:10.3847/2041-8213/ac03b8, arXiv:2104.00880
33. **The NANOGrav 11yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500Mpc**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 914, 121 (2021)  
doi:10.3847/1538-4357/abfed3, arXiv:2101.02716
34. **Astrophysics Milestones for Pulsar Timing Array Gravitational-wave Detection**  
N. S. Pol *et al.*  
*Astrophysical Journal Letters*, 911, L34, (2021)  
doi:10.3847/2041-8213/abf2c9, arXiv:2010.11950
35. **The NANOGrav 12.5-year Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars**  
M. F. Alam *et al.*  
*Astrophysical Journal Supplement Series*, 252, 4 (2021)  
doi:10.3847/1538-4365/abc6a0, arXiv:2005.06490
36. **The NANOGrav 12.5-year Data Set: Wideband Timing of 47 Millisecond Pulsars**  
M. F. Alam *et al.*  
*Astrophysical Journal Supplement Series*, 252, 5 (2021)  
doi:10.3847/1538-4365/abc6a1, arXiv:2005.06495
37. **The NANOGrav 12.5-year Data Set: Search for an Isotropic Stochastic Gravitational-Wave Background**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal Letters*, 905, L34 (2020)  
doi:10.3847/2041-8213/abd401, arXiv:2009.04496
38. **Multi-Messenger Gravitational Wave Searches with Pulsar Timing Arrays: Application to 3C66B Using the NANOGrav 11-year Data Set**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 900, 102 (2020)  
doi:10.3847/1538-4357/ababa1, arXiv:2005.07123

39. **Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays**  
M. Vallisneri *et al.*  
*Astrophysical Journal*, 893, 112 (2020)  
doi:10.3847/1538-4357/ab7b67, arXiv:2001.00595
40. **The NANOGrav 11-year Data Set: Constraints on Planetary Masses Around 45 Millisecond Pulsars**  
E. A. Behrens *et al.*  
*Astrophysical Journal Letters*, 893, L8 (2020)  
doi:10.3847/2041-8213/ab8121, arXiv:1912.00482
41. **The NANOGrav 11-Year Data Set: Evolution of Gravitational Wave Background Statistics**  
J. Hazboun *et al.*  
*Astrophysical Journal*, 890, 108 (2020)  
doi:10.3847/1538-4357/ab68db, arXiv:1909.08644
42. **The NANOGrav 11-Year Data Set: Limits on Gravitational Wave Memory**  
K. Aggarwal *et al.*  
*Astrophysical Journal*, 889, 38 (2020)  
doi:10.3847/1538-4357/ab6083, arXiv:1911.08488
43. **A very massive neutron star: relativistic Shapiro delay measurements of PSR J0740+6620**  
H. T. Cromartie *et al.*  
*Nature Astronomy*, 4, 72 (2020)  
doi:10.1038/s41550-019-0880-2, arXiv:1904.06759
44. **A Pulsar-based Timescale from the International Pulsar Timing Array**  
G. Hobbs *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 491, 5951 (2020)  
doi:10.1093/mnras/stz3071, arXiv:1910.13628
45. **The International Pulsar Timing Array: Second Data Release**  
B. B. P. Perera *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 490, 4666 (2019)  
doi:10.1093/mnras/stz2857, arXiv:1909.04534
46. **The NANOGrav 11-Year Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries**  
K. Aggarwal *et al.*  
*Astrophysical Journal*, 880, 116 (2019)  
doi:10.3847/1538-4357/ab2236, arXiv:1812.11585
47. **High-Precision X-ray Timing of Three Millisecond Pulsars with NICER: Stability Estimates and Comparison with Radio**  
J. S. Deneva *et al.*  
*Astrophysical Journal*, 874, 160 (2019)  
doi:10.3847/1538-4357/ab0966, arXiv:1902.07130
48. **The NANOGrav 12.5-Year Data Set: The Frequency Dependence of Pulse Jitter in Precision Millisecond Pulsars**  
M. Lam *et al.*  
*Astrophysical Journal*, 872, 193 (2019)  
doi:10.3847/1538-4357/ab01cd, arXiv:1809.03058

49. **The NANOGrav 11-year Data Set: Solar Wind Sounding Through Pulsar Timing**  
D. R. Madison *et al.*  
*Astrophysical Journal*, 872, 150 (2019)  
doi:10.3847/1538-4357/ab01fd, arXiv:1808.07078
50. **PSR J2234+0611: A New Laboratory for Stellar Evolution**  
K. Stovall *et al.*  
*Astrophysical Journal*, 870, 74 (2019)  
doi:10.3847/1538-4357/aaf37d, arXiv:1809.05064
51. **Tests of Gravitational Symmetries with Pulsar Binary J1713+0747**  
W. W. Zhu *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 482, 3249 (2019)  
doi:10.1093/mnras/sty2905, arXiv:1802.09206
52. **Studying the Solar System with the International Pulsar Timing Array**  
R. N. Caballero *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 481, 5501 (2018)  
doi:10.1093/mnras/sty2632, arXiv:1809.10744
53. **The NANOGrav 11-year Data Set: Pulse Profile Variability**  
P. R. Brook *et al.*  
*Astrophysical Journal*, 868, 122 (2018)  
doi:10.3847/1538-4357/aae9e3, arXiv:1810.08269
54. **A VLBI Distance and Transverse Velocity for PSR B1913+16**  
A. T. Deller, J. M. Weisberg, D. J. Nice, and S. Chatterjee  
*Astrophysical Journal*, 862, 139 (2018)  
doi:10.3847/1538-4357/aac9f5, arXiv:1806.10265
55. **The NANOGrav Eleven-Year Data Set: Polarimetry and Pulse Microcomponents**  
P. Gentile *et al.*  
*Astrophysical Journal*, 862, 47 (2018)  
doi:10.3847/1538-4357/aac9c9, arXiv:1807.00708
56. **A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747**  
M. Lam *et al.*  
*Astrophysical Journal*, 861, 132 (2018)  
doi:10.3847/1538-4357/aac770, arXiv:1712.03651
57. **The NANOGrav 11-Year Data Set: Pulsar-Timing Constraints on the Stochastic Gravitational-Wave Background**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 859, 47 (2018)  
doi:10.3847/1538-4357/aabd3b, arXiv:1801.02617
58. **The NANOGrav 11-Year Data Set: High-Precision Timing of 45 Millisecond Pulsars**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal Supplement Series*, 235, 37 (2018)  
doi:10.3847/1538-4365/aab5b0, arXiv:1801.01837
59. **The NANOGrav Nine-Year Data Set: Measurement and Interpretation of Variations in Dispersion Measures**  
M. Jones *et al.*  
*Astrophysical Journal*, 841, 125 (2017)  
doi:10.3847/1538-4357/aa73df, arXiv:1612.03187



60. **The NANOGrav Nine-Year Data Set: Excess Noise in Millisecond Pulsar Arrival Times**  
M. Lam *et al.*  
*Astrophysical Journal*, 834, 35 (2017)  
doi:10.3847/1538-4357/834/1/35, arXiv:1610.01731
61. **The NANOGrav Nine-Year Data Set: Mass and Geometric Measurements of Binary Millisecond Pulsars**  
E. Fonseca *et al.*  
*Astrophysical Journal*, 832, 167 (2016)  
doi:10.3847/0004-637X/832/2/167, arXiv:1603.00545
62. **PSR J1024–0719: A Millisecond Pulsar in an Unusual Long-Period Orbit**  
D. Kaplan *et al.*  
*Astrophysical Journal*, 826, 86 (2016)  
doi:10.3847/0004-637X/826/1/86, arXiv:1604.00131
63. **The NANOGrav Nine-Year Data Set: Limits on the Isotropic Stochastic Gravitational Wave Background**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 821, 13 (2016)  
doi:10.3847/0004-637X/821/1/13, arXiv:1508.03024
64. **From Spin Noise to Systematics: Stochastic Processes in the First International Pulsar Timing Array Data Release**  
L. Lentati *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 458, 2161 (2016)  
doi:10.1093/mnras/stw395, arXiv:1602.05570
65. **The International Pulsar Timing Array: First Data Release**  
J. P. W. Verbiest *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 458, 1267 (2016)  
doi:10.1093/mnras/stw347, arXiv:1602.03640
66. **The NANOGrav Nine-Year Data Set: Noise Budget for Pulsar Arrival Times on Intraday Timescales**  
M. Lam *et al.*  
*Astrophysical Journal*, 819, 155 (2016)  
doi:10.3847/0004-637X/819/2/155, arXiv:1512.08326
67. **The NANOGrav Nine-Year Data Set: Monitoring Interstellar Scattering Delays**  
L. Levin *et al.*  
*Astrophysical Journal*, 818, 166 (2016)  
doi:10.3847/0004-637X/818/2/166, arXiv:1601.04490
68. **The NANOGrav Nine-Year Data Set: Astrometric Measurements of 37 Millisecond Pulsars**  
A. Matthews *et al.*  
*Astrophysical Journal*, 818, 92 (2016)  
doi:10.3847/0004-637X/818/1/92, arXiv:1509.08982
69. **The NANOGrav Nine-Year Data Set: Observations, Arrival Time Measurements, and Analysis of 37 Millisecond Pulsars**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 813, 65 (2015)  
doi:10.1088/0004-637X/813/1/65, arXiv:1505.07540

70. **NANOGrav Constraints on Gravitational Wave Bursts with Memory**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 810, 150 (2015)  
doi:10.1088/0004-637X/810/2/150, arXiv:1501.05343
71. **Testing Theories of Gravitation Using 21-Year Timing of Pulsar Binary J1713+0747**  
W. W. Zhu *et al.*  
*Astrophysical Journal*, 809, 41 (2015)  
doi:10.1088/0004-637X/809/1/41, arXiv:1504.00662
72. **The Binary Companion of Young, Relativistic Pulsar J1906+0746**  
J. van Leeuwen *et al.*  
*Astrophysical Journal*, 798, 118 (2015)  
doi:10.1088/0004-637X/798/2/118, arXiv:1411.1518
73. **Gravitational Waves from Individual Supermassive Black Hole Binaries in Circular Orbits: Limits from the North American Nanohertz Observatory for Gravitational Waves**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 794, 141 (2014)  
doi:10.1088/0004-637X/794/2/141, arXiv:1404.1267
74. **Arecibo Pulsar Survey Using ALFA. III. Precursor Survey and Population Synthesis**  
J. K. Swiggum *et al.*  
*Astrophysical Journal*, 787, 137 (2014)  
doi:10.1088/0004-637X/787/2/137, arXiv:1405.7953
75. **Timing and Interstellar Scattering of 35 Distant Pulsars Discovered in the PALFA Survey**  
D. J. Nice *et al.*  
*Astrophysical Journal*, 772, 50 (2013)  
doi:10.1088/0004-637X/772/1/50, arXiv:1304.7370
76. **Limits on the Stochastic Gravitational Wave Background from the North American Nanohertz Observatory for Gravitational Waves**  
P. Demorest *et al.*  
*Astrophysical Journal*, 762, 94 (2013)  
doi:10.1088/0004-637X/762/2/94, arXiv:1201.6641
77. **Time Correlated Structure in Spin Fluctuations in Pulsars**  
S. Price, B. Link, S. N. Shore, & D. J. Nice  
*Monthly Notices of the Royal Astronomical Society*, 426, 2507 (2012)  
doi:10.1111/j.1365-2966.2012.21863.x, arXiv:1208.0807
78. **Four Highly Dispersed Millisecond Pulsars Discovered in the Arecibo PALFA Galactic Plane Survey**  
F. Crawford *et al.*  
*Astrophysical Journal*, 757, 90 (2012)  
doi:10.1088/0004-637X/757/1/90, arXiv:1208.1273
79. **Two Millisecond Pulsars Discovered by the PALFA Survey and a Shapiro Delay Measurement**  
J. S. Deneva *et al.*  
*Astrophysical Journal*, 757, 89 (2012)  
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80. **High-Precision Timing of Five Millisecond Pulsars: Space Velocities, Binary Evolution, and Equivalence Principles**  
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