

David J. Nice
Curriculum Vitae and Publications

Physics Department
Lafayette College
Easton, PA 18042
ORCID ID: 0000-0002-6709-2566

niced@lafayette.edu
<http://sites.lafayette.edu/niced>
office +1-610-330-5204

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):

2025– Member, Workplace Culture Strategic Plan Implementation Action Team
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)
2025–2026 Member, Scientific Organizing Committee, IPTA 2026, South Africa
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 NANOGrav 15-Year Data Set: Improved Timing Precision with VLBI Astrometric Priors

S. V. Sosa Fiscella *et al.* (NANOGrav timing and noise budget groups)
Astrophysical Journal, accepted January 2026
arXiv:2509.21203

2. The NANOGrav 15 yr Data Set: Targeted Searches for Supermassive Black Hole Binaries

N. Agarwal *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, accepted January 2026
arXiv:2508.16534

3. NANOGrav 15-year Data Set: Search for Gravitational Scattering of Pulsars by Free-Floating Objects in Interstellar Space

L. Dey *et al.* (NANOGrav Timing Working Group)
Astrophysical Journal, accepted December 2025
arXiv:2507.19475

4. Inferring $M_{\text{BH}} - M_{\text{bulge}}$ Evolution from the Gravitational Wave background

C. Matt *et al.* (NANOGrav collaboration)
Astrophysical Journal, accepted November 2025
arXiv:2508.18126

5. Rapid Construction of Joint Pulsar Timing Array Datasets: The Lite Method

B. Larsen *et al.* (Int'l Pulsar Timing Array)
Monthly Notices of the Royal Astronomical Society, 542, 3028 (2025)
doi:10.1093/mnras/staf1420, arXiv:2503.20949

6. The NANOGrav 15-year Data Set: Search for Gravitational Wave Memory

G. Agazie *et al.* (NANOGrav collaboration)
Astrophysical Journal, 987, 5 (2025)
doi:10.3847/1538-4357/add874, arXiv:2502.18599

7. The NANOGrav 12.5-Year Data Set: Probing Interstellar Turbulence and Precision Pulsar Timing with PSR J1903+0327

A. Geiger *et al.* (NANOGrav timing group and others)
Astrophysical Journal, 986, 191 (2025)
doi:10.3847/1538-4357/add0b6, arXiv:2411.08191

8. The NANOGrav 15 yr Data Set: Harmonic Analysis of the Pulsar Angular Correlations

G. Agazie *et al.* (NANOGrav collaboration)
Astrophysical Journal, 985, 99 (2025)
doi:10.3847/1538-4357/adc997, arXiv:2411.13472

9. Pulse Profile Variability of PSR J1022+1001 in NANOGrav Data

W. Fiore *et al.* (NANOGrav timing group)
Astrophysical Journal, 984, 139 (2025)
doi:10.3847/1538-4357/adc255, arXiv:2412.05452

10. **The Anomalous Acceleration of PSR J2043+1711: Long-Period Orbital Companion or Stellar Flyby?**
T. Donlon *et al.* (NANOGrav timing group)
Astrophysical Journal, 983, 62 (2025)
doi:10.3847/1538-4357/adb90, arXiv:2407.06482
11. **A 34-Year Timing Solution of the Redback Millisecond Pulsar Terzan 5A**
A. C. Rosenthal *et al.*
Astrophysical Journal, 982, 170 (2025)
doi:10.3847/1538-4357/adb8cd, arXiv:2410.21648
12. **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
13. **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
14. **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
15. **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
16. **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
17. **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
18. **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
19. **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

20. **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
21. **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
22. **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
23. **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
24. **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
25. **How to Detect an Astrophysical Nanohertz Gravitational Wave Background**
B. Bécsey *et al.* (NANOGrav collaboration)
Astrophysical Journal, 959, 9 (2023)
doi:10.3847/1538-4357/ad09e4, arXiv:2309.04443
26. **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
27. **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
28. **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
29. **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

30. **The NANOGrav 15-year Data Set: Evidence for a Gravitational-Wave Background**
G. Agazé *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 951, L8, (2023)
doi:10.3847/2041-8213/acdac6, arXiv:2306.16213
31. **The NANOGrav 15-year Data Set: Observations and Timing of 68 Millisecond Pulsars**
G. Agazé *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 951, L9 (2023)
doi:10.3847/2041-8213/acda9a, arXiv:2306.16217
32. **The NANOGrav 15-year Data Set: Detector Characterization and Noise Budget**
G. Agazé *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 951, L10 (2023)
doi:10.3847/2041-8213/acda88, arXiv:2306.16218
33. **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
34. **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
35. **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
36. **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
37. **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
38. **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
39. **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

40. **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/abfafa, arXiv:2012.09884
41. **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
42. **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/abfcd3, arXiv:2101.02716
43. **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
44. **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
45. **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
46. **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
47. **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
48. **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
49. **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

50. **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
51. **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
52. **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
53. **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
54. **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
55. **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
56. **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
57. **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
58. **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
59. **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
60. **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

61. **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
62. **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
63. **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
64. **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
65. **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
66. **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
67. **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
68. **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
69. **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
70. **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

71. **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
72. **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
73. **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
74. **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
75. **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
76. **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
77. **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
78. **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
79. **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
80. **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
81. **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

82. **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
83. **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
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