
DIMITRIOS PSALTIS

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Date of birth: June 1, 1970; U.S. and Greek Citizen

PROFESSIONAL ACTIVITIES

• Employment

2013 – Present : Professor of Astronomy and Physics, University of Arizona
2016 – 2017 : Visiting Professor (Sabbatical Leave), Radcliffe Institute, Harvard University
2008 – 2013 : Associate Professor of Physics and Astronomy, University of Arizona
2009 Fall : Visiting Professor (Sabbatical Leave), Harvard University
2003 – 2008 : Assistant Professor of Physics and Astronomy, University of Arizona
2001 – 2002 : 5-yr member, Institute for Advanced Study, Princeton, NJ
2000 – 2001 : Post-doctoral researcher, Massachusetts Institute of Technology
1997 – 2000 : Post-doctoral Fellow, Harvard-Smithsonian Center for Astrophysics

• Education

1997 : Ph. D. in Astronomy, University of Illinois at Urbana-Champaign
1994 : M. Sc. in Astronomy, University of Illinois at Urbana-Champaign
1992 : Ptychio (B.Sc.) in Physics, with highest Distinction,
Aristotle University of Thessaloniki, Greece

• Honors and Awards

2020 : Breakthrough Award (with the EHT collaboration)
2020 : AAS Bruno Rossi Prize (with the EHT collaboration)
2016 : Radcliffe Institute Fellowship, Harvard University
2008 : NSF CAREER Award
2005 : Academic Prize of the Bodossaki Foundation
1997 : Harvard-Smithsonian Prize Postdoctoral Fellowship
1997 : Jordan S. Asketh Fellowship, University of Illinois

• Selected Activities

2016 – Present : Member and (2016-2019) Project Scientist for the Event Horizon Telescope
2016 – Present : Chair of the Theoretical Astrophysics Program, University of Arizona
2010 – Present : Member of the Science Team for NASA's NICER mission
2013 – 2017 : Science Advisory Board (Fachbeirat), Max Planck Institute, Bonn
2010 : Main Organizer for "Understanding Physics with Neutron Stars" Conference
2007 : Main Organizer for "Rethinking Gravity" Conference, Tucson AZ
2005 – 2018 : Peer Review Panels for NSF programs
2003 – 2019 : Peer Review Panels for NASA ATP program
2001 : Peer Review Panel for the Chandra X-ray Observatory

RECENT INVITED TALKS

”The Shadow of a Black Hole” ,

- Colloquium, Princeton IAS, May 2019
- Colloquium, Astro Department, MIT, April 2019
- Colloquium, Physics Department, UC Berkeley, April 2019
- Special Colloquium, Astro Department, U Arizona, April 2019

“Testing General Relativity with the Event Horizon Telescope” ,

- Invited Talk, Space VLBI, Nordwijk, The Netherlands, September 2018
- Invited Talk, Astrophysical Frontiers in the Next Decade, Portland, OR, July 2018
- Invited Talk, Keck Workshop on GC, UCLA, December 2017
- Invited Talk, BHI Conference, Harvard University, May 2017
- Colloquium, Institute for Theory & Computation, Harvard University, April 2017
- Colloquium, Radcliffe Institute, Harvard University, December 2016
- Invited Talk, Greek Society for Relativity, Mykonos, August 2016
- Invited Talk, Simulation & Modelling of MHD Turbulence, Oxford, UK, July 2016
- Colloquium, Aspen Center for Physics, July 2016

“Testing the No-Hair Theorem with the Event Horizon Telescope” ,

- Talk, BlackHoleCam Mtg, Bonn, Germany, February 21-23, 2016
- Invited Talk, Dynamics at the Galactic Center, Aspen, CO, February 7-12, 2016
- Colloquium, Istanbul University, December 29, 2015
- Invited Talk, MIAPP Conference, Garching, Germany, September 6-12, 2015
- Invited Talk, Extreme Gravity Workshop, Bozeman, MT, August 20-22, 2015
- Colloquium, UCLA, May 13, 2015
- Colloquium, UC Berkeley, April 2, 2015
- Invited Talk, EHT Conference, Waterloo, Canada, November 9-14, 2014
- Invited Talk, 558th WE-Heraeus-Seminar, Germany, March 29-April 4, 2014
- Colloquium, University of Waterloo, February 28, 2013
- ITC Colloquium, Harvard University, February 7, 2013
- Invited Talk, Einstein in Prague Conference, June 25-29, 2012
- Colloquium, Max Planck Institute fur Radioastronomie, June 30, 2012
- Colloquium, U. Wisconsin, April 27, 2012
- Astro Seminar, UCSB, March 16, 2012
- Invited Talk, Astro and Cosmo Tests of GR, Tokyo, Japan, January 23-27, 2012
- Colloquium, NRAO, Socorro, NM, October 7, 2011

“Connecting Strong-Field, Solar System, and Cosmological Tests of Gravity” ,

- Invited Talk, Testing Gravity 2015, Vancouver, Canada, January 15-17, 2015
- Invited Talk, Workshop on Novel Probes of Gravity, UPenn, April 25-26, 2013
- Invited Talk, Cosmological Tests of Gravity, Oxford University, UK, March 14, 2013

“Testing General Relativity with X-ray Observations of Neutron Stars and Black Holes” ,
3 Lectures at IUCAA School, Pune, India, Jan 17-25, 2014

“Testing the No-Hair Theorem with Astrophysical Black Holes” ,

- Invited Talk, Sackler Conference, Cambridge, MA, May 14-17, 2012
- Seminar, IoA, University of Cambridge, June 24, 2011
- Astronomy Colloquium, Ohio State University, May 5, 2011
- Colloquium, SLAC/Stanford University, March 10, 2011
- Astrophysics Seminar, Arizona State University, March 9, 2011
- Astrophysics Seminar, Case Western, November 2, 2010
- Invited Talk, Physics and Astrophysics of BHs and NSs, Bremen, July 16-17, 2010

PH.D. THESES ADVISED

- Dr. Martin Pessah** “MHD Turbulence and Angular Momentum Transport in Accretion Disks”
May 2007 (moved on to become a postdoctoral fellow at IAS Princeton; currently an Assistant Professor at the Niels Bohr Institute)
- Dr. Chi-Kwan Chan** “Numerical Simulations of MHD Accretion Flows”
May 2007 (co-advised with F. Özel; moved on to become a postdoctoral fellow at the ITC Harvard and at NORDITA)
- Dr. Andras Gaspar** “Numerical Models of Debris Disks”
November 2011 (co-advised with F. Özel and G. Rieke)
- Tim Johannsen** “Testing Gravity Theories with Black Holes”
May 2012 (moved to a postdoctoral fellowship at Perimeter Institute)
- Alan Cooney** “Gravity with Perturbative Constraints”
May 2012
- Michi Bauböck** “Ray Tracing in the Spacetimes of Rotating Neutron Stars”
August 2016 (co-advised with F. Özel)
(moved to a postdoctoral fellowship at Max Planck Institute)
- Lia Medeiros** “Modeling Variability in Black-Hole Images”
August 2019 (co-advised with F. Özel)
(moved to a postdoctoral fellowship at IAS, Princeton)
- Kaushik Satopathy** “Variability of Black Holes”
2nd year student

FUNDED SCIENTIFIC PROPOSALS

- 2019-2022: \$ 470,312 “Hybrid Kinetic-GRMHD simulations of Black Hole Accretion with Data-Calibrated Electron Physics”
F. Özel (PI), **Psaltis, D.** (CoI)
NASA ATP
- 2017–2022: \$5,678,833 “PIRE: Black Hole Astrophysics in the Era of Distributed Resources and Expertise”
Psaltis, D. (PI), S. Doeleman, C. Gammie, D. Marrone, F. Özel
NSF PIRE
- 2017–2020: \$ 519,430 “Realistic Simulations for Collisionless Black Hole Accretion Flows”
F. Özel (PI), **Psaltis, D.** (CoI)
NSF AAG
- 2014–2019: \$ 708,160 “Event Horizon Telescope”
PI: S. Doeleman (SAO), Arizona PI: D. Marrone, CoIs: **Psaltis, D.**, F. Özel, L. Ziurys
Subaward for an NSF MSIP award Award
- 2015–2018: \$ 463,619 “NICER”
Award PI: K. Gendreau, Arizona CoPIs: **Psaltis, D.**, Özel, F.
subaward from a NASA SMEX award
- 2016–2017: \$ 92,000 “X-ray Variability of Sgr A* as a Probe of Plasma Physics in Accretion Flows”
Özel, F. (PI), **Psaltis, D.**(CoI)
NASA Chandra Theory Grant
- 2013–2016: \$1,500,000 “Multi-Scale Plasma Flows Around Black Holes”
Psaltis, D. (coPI), F. Özel (coPI)
NASA/NSF TCAN, network grant with U. Maryland and Harvard University
- 2013–2016: \$ 489,000 “Precision Measurements of the Black-Hole Properties in the Center of the Milky Way”
Psaltis, D. (Arizona, PI)
NSF Astronomy and Astrophysics
- 2012: \$1,270,000 “MRI: Acquisition of a Graphics Processor Unit-Accelerated High Performance Computer for Astrophysics”
Psaltis, D. (one of four coPIs)
NSF MRI
- 2011–2012: \$ 208,000 “Mapping Neutron-Star Surfaces During Thermonuclear Flashes using Archival RXTE Observations of Burst Oscillations”
Psaltis, D. (PI) and F. Özel (Co-I)
NASA Astrophysics Data Analysis Program
- 2011–2012: \$ 88,000 “The apparent surface areas of spinning neutron stars”
Psaltis, D.(PI) and F. Özel (Co-I)
NASA Chandra Theory Grant
- 2010–2011: \$ 76,000 “A Comprehensive Study of the Spectra of X-ray Bursters” F. Özel (PI) and **Psaltis, D.** (Co-I)
NASA Chandra Theory Grant

2008–2013: \$ 536,000 “Exploring the Warped Spacetimes of Astrophysical Black Holes”
Psaltis, D. (PI)
NSF CAREER Award

2007–2008: \$ 69,000 “Understanding the Flares of Sgr A* through 3D Radiative Magnetohydrodynamic Simulations”
Psaltis, D. (PI)
NASA Chandra Theory Grant

2003–2006: \$ 328,000 “Towards New Tests of General Relativity with Compact Objects”
Psaltis, D. (PI)
NASA Astrophysics Theory Program

1999–2004: \$ 625,000 “Accreting Neutron Stars as Astrophysical Laboratories”
D. Chakrabarty (MIT, PI) and **Psaltis, D.** (MIT, Co-PI)
NASA Long-Term Space Astrophysics Program

1999–2001: \$ 306,000 “X-ray Spectra and Variability of Accreting Neutron Stars”
F. K. Lamb (UIUC, PI) and **Psaltis, D.** (MIT/Princeton, Co-PI)
NASA Astrophysics Theory Program

Total Funding: \$13,427,000

LIST OF PUBLICATIONS

Articles in refereed journals are marked by a •

Papers on the Event Horizon Telescope and the Galactic Center

1. • “A Parametric model for the shapes of black-hole shadows in non-Kerr spacetimes”
Medeiros, L., **Psaltis, D.**, Özel, F. 2020, *Astrophys. J.*, 896, 7
2. • “Interferometric Closure Phase Uncertainties in the Low Signal-to-noise Ratio Regime”
Christian, P., **Psaltis, D.** 2020, *Astron. J.* 159, 226
3. • “Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution”
Kim, J.-Y., and 350 collaborators, 2020, *A&A*, in press
4. • “SYMBA: An end-to-end VLBI synthetic data generation pipeline. Simulating Event Horizon Telescope observations of M 87”
Roelofs, F., and 208 colleagues 2020, *A&A*, 636, A5
5. • “The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project”
Porth, O., and 220 colleagues 2019. *Astrophys. J. Supplement Series*, 243, 26.
6. • “First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole”
Event Horizon Telescope Collaboration, and 214 colleagues 2019. *Astrophys. J.*, 875, L6.
7. • “First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring”
Event Horizon Telescope Collaboration, and 221 colleagues 2019. *Astrophys. J.*, 875, L5.
8. • “First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole”
Event Horizon Telescope Collaboration, and 215 colleagues 2019. *Astrophys. J.*, 875, L4.
9. • “First M87 Event Horizon Telescope Results. III. Data Processing and Calibration”
Event Horizon Telescope Collaboration, and 217 colleagues 2019. *Astrophys. J.*, 875, L3.
10. • “First M87 Event Horizon Telescope Results. II. Array and Instrumentation”
Event Horizon Telescope Collaboration, and 341 colleagues 2019. *Astrophys. J.*, 875, L2.
11. • “First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole”
Event Horizon Telescope Collaboration, and 348 colleagues 2019. *Astrophys. J.*, 875, L1.
12. “Envisioning the next decade of Galactic Center science: a laboratory for the study of the physics and astrophysics of supermassive black holes”
Do, T., and 35 colleagues 2019. *Bulletin of the AAS*, 51, 530.
13. • “The Scattering and Intrinsic Structure of Sagittarius A* at Radio Wavelengths”
Johnson, M. D., and 14 colleagues 2018. *Astrophys. J.*, 865, 104.
14. • “A Model for Anisotropic Interstellar Scattering and its Application to Sgr A*”
Psaltis, D., Johnson, M., Narayan, R., Medeiros, L., Blackburn, L., Bower, G. 2018, arXiv e-prints arXiv:1805.01242.

15. • “Detection of Intrinsic Source Structure at 3 Schwarzschild Radii with Millimeter-VLBI Observations of Sgr A*”
Lu, R.-S., and 55 colleagues 2018. *Astrophys. J.*, 859, 60.
16. • “GRMHD Simulations of Visibility Amplitude Variability for Event Horizon Telescope Images of Sgr A*”
Medeiros, L., and 6 colleagues 2018. *Astrophys. J.*, 856, 163.
17. • “The Properties of Reconnection Current Sheets in GRMHD Simulations of Radiatively Inefficient Accretion Flows”
Ball, D., Özel, F., **Psaltis, D.**, Chan, C.-K., Sironi, L. 2018. *Astrophys. J.*, 853, 184.
18. • “Locating the intense interstellar scattering towards the inner Galaxy”
Dexter, J., and 11 colleagues 2017. *MNRAS*, 471, 3563.
19. • “Variability in GRMHD Simulations of Sgr A* Implications for EHT Closure Phase Observations”
Medeiros, L., and 6 colleagues 2017. *Astrophys. J.*, 844, 35.
20. • “Bayesian techniques for comparing time-dependent GRMHD simulations to variable Event Horizon Telescope observations”
Kim, J., Marrone, D. P., Chan, C.-k., Medeiros, L., Ozel, F., **Psaltis, D.** 2016, *Astrophys. J.*, 832, 156
21. • “Particle Acceleration and the Origin of X-ray Flares in GRMHD simulations of Sgr A*”
Ball, D., Ozel, F., **Psaltis, D.**, Chan, C.-k. 2016., *Astrophys. J.*, 826, 77
22. • “GRMHD simulations of visibility amplitude variability for Event Horizon Telescope images of Sgr A*”
Medeiros, L., Chan, C.-k., Ozel, F., **Psaltis, D.**, Kim, J., Marrone, D. P., Sadowski, A. 2016, *Astrophys. J.*, submitted, arXiv:1601.06799
23. • “Shapiro Delays at the Quadrupole Order for Tests of the No-Hair Theorem Using Pulsars around Spinning Black Holes”,
Christian, P., **Psaltis, D.**, Loeb, A. 2015, *Astrophys. J.*, submitted, arXiv:1511.01901
24. • “Persistent Asymmetric Structure of Sagittarius A* on Event Horizon Scales”,
Fish, V. et al. 2016, *Astrophys. J.*, 820, 90
25. • “Resolved Magnetic-Field Structure and Variability Near the Event Horizon of Sagittarius A*”,
Johnson, M. et al., 2015, *Science*, 350, 1242
26. • “Fast Variability and mm/IR flares in GRMHD Models of Sgr A* from Strong-Field Gravitational Lensing”,
C.-K., **Psaltis, D.**, Özel, F., Medeiros, L., Marrone, D., Sadowski, A., & Narayan, R. 2015, *Astrophys. J.*, 812, 103
27. • “A General Relativistic Null Hypothesis Test with Event Horizon Telescope Observations of the black-hole shadow in Sgr A*”,
Psaltis, D. Özel, F., Chan, C.-K., & Marrone, D.P. 2015, *Astrophys. J.*, 814, 115

28. • “The Power of Imaging: Constraining the Plasma Properties of GRMHD Simulations using EHT Observations of Sgr A*”,
Chan, C.-K., **Psaltis, D.**, Özel, F., Narayan, R., Sadowski, A. 2015, *Astrophys. J.*, 799, 1
29. • “Event Horizon Telescope Evidence for Alignment of the Black Hole in the Center of the Milky Way with the Inner Stellar Disk”, **Psaltis, D.**, Narayan, R., Fish, V. L., Broderick, A. E., Loeb, A., Doeleman, S. S. 2015. *Astrophys. J.*, 798, 15
30. • “Imaging an Event Horizon: Mitigation of Scattering toward Sagittarius A*”,
Fish, V. L., and 12 colleagues 2014, *Astrophys. J.*, 795, 134
31. • “Testing the No-hair Theorem with Event Horizon Telescope Observations of Sagittarius A*”,
Broderick, A. E., Johannsen, T., Loeb, A., **Psaltis, D.** 2014, *Astrophys. J.*, 784, 7

Papers on Computational Methods

32. • “Markov Chains for Horizons (MARCH). I. Identifying Biases in Fitting Theoretical Models to Event Horizon Telescope Observations.”
Psaltis, D., Özel, F., Medeiros, L., Christian, P., Kim, J., Chan, C.-K., Conway, L., Raithel, C., Marrone, D., Lauer, T. 2020. arXiv e-prints arXiv:2005.09632
33. • “Discretization and Filtering Effects on Black Hole Images Obtained with the Event Horizon Telescope”
Psaltis, D., Medeiros, L., Lauer, T. R., Chan, C.-K., Özel, F. 2020. arXiv e-prints arXiv:2004.06210
34. • “Principal Component Analysis as a Tool for Characterizing Black Hole Images and Variability”
Medeiros, L., Lauer, T. R., **Psaltis, D.**, Özel, F. 2018. *Astrophys. J.*, 864, 7.
35. • “GRay2: A General Purpose Geodesic Integrator for Kerr Spacetimes”
Chan, C.-K., Medeiros, L., Özel, F., **Psaltis, D.** 2018. *Astrophys. J.*, 867, 59.
36. • “HEROIC: 3D general relativistic radiative post-processor with comptonization for black hole accretion discs.”
Narayan, R., Zhu, Y., **Psaltis, D.**, Sadowski, A. 2016. *MNRAS* 457, 608
37. • “HERO - A 3D general relativistic radiative post-processor for accretion discs around black holes”,
Zhu, Y., Narayan, R., Sadowski, A., & **Psaltis, D.** 2015 *MNRAS*, 451, 1661
38. • “GRay: a Massively Parallel GPU-Based Code for Ray Tracing in Relativistic Spacetimes”,
Chan, C.-K., **Psaltis, D.**, & Özel, F., 2013, *Astrophys. J.*, 777, 13
39. • “A Ray Tracing Algorithm for Compact Object Spacetimes with Arbitrary Quadrupole Moments. II. Neutron Stars”,
Bauböck, M., **Psaltis, D.**, Özel, F., & Johannsen, T., 2012, *Astrophys. J.*, 753, 175
40. • “A Ray Tracing Algorithm for Compact Object Spacetimes with Arbitrary Quadrupole Moments. I. Quasi-Kerr Black Holes”,
Psaltis, D., & Johannsen, T., 2012, *Astrophys. J.*, 745, 1

41. • “Modeling Collisional Cascades in Debris Disks: The Numerical Method”
Gaspar, A., **Psaltis, D.**, Özel, F., Rieke, G. H., & Cooney, A. 2012, *Astrophys. J.*, 749, 14
42. • “Spectral Methods for Time-Dependent Studies of Accretion Flows. III. Three-Dimensional MHD Flows”
Chan, C.-K., **Psaltis, D.**, & Özel, F., 2009, *Astrophys. J.*, 700, 741
43. • “Spectral Methods for Time-Dependent Studies of Accretion Flows. II. Two-Dimensional Hydrodynamic Disks with Self-Gravity”
Chan, C.-K., **Psaltis, D.**, & Özel, F., 2006, *Astrophys. J.*, 645, 506
44. • “Spectral Methods for Time-Dependent Studies of Accretion Flows. I. Two-dimensional, Viscous, Hydrodynamic Disks”,
Chan, C.-K., **Psaltis, D.**, & Özel, F., 2005, *Astrophys. J.*, 628, 353
45. • “Radiative Transfer in Obliquely Illuminated Accretion Disks”,
Psaltis, D. 2002, *Astrophys. J.*, 574, 306
46. • “Compton Scattering in Static and Moving Media. II. System-Frame Solutions for Spherically Symmetric Flows”,
Psaltis, D. 2001, *Astrophys. J.*, 555, 786

Papers on Tests of Strong-Field Gravity

47. • “Testing General Relativity with the Event Horizon Telescope”
Psaltis, D. 2018. arXiv e-prints arXiv:1806.09740.
48. • “Event Horizon Telescope observations as probes for quantum structure of astrophysical black holes”
Giddings, S. B., **Psaltis, D.** 2018. *Physical Rev. D* 97, 084035.
49. • “A quantitative test of the no-hair theorem with Sgr A*, using stars, pulsars, and the Event Horizon Telescope”,
Psaltis, D., Wex, N., & Kramer, M. 2015, *Astrophys. J.*, 818, 121
50. • “Testing General Relativity with Accretion-Flow Imaging of Sgr A*
Johannsen, T., and 6 colleagues 2016. *Physical Rev. Let.*, 117, 091101.
51. • “Linking Tests of Gravity on All Scales: from the Strong-field Regime to Cosmology”,
Baker, T., **Psaltis, D.**, & Skordis, C. 2015, *Astrophys. J.*, 802, 63
52. • “Deviation of Stellar Orbits from Test Particle Trajectories Around Sgr A* Due to Tides and Winds”,
Psaltis, D., Li, G., & Loeb, A. 2013, *Astrophys. J.*, 777, 57
53. • “Testing the No-Hair Theorem with Observations in the Electromagnetic Spectrum. III. Relativistically Broadened Iron Lines”,
Johannsen, T., & **Psaltis, D.** 2013, *Astrophys. J.*, 773, 57
54. • “The Influence of Gas Dynamics on Measuring the Properties of the Black Hole in the Center of the Milky Way with Stellar Orbits and Pulsars”,
Psaltis, D., 2012, *Astrophys. J.*, 759, 130

55. • “Masses of Nearby Supermassive Black Holes With Very-Long Baseline Interferometry”,
Johannsen, T., Gillessen, S., **Psaltis, D.**, Marrone, D. P., Özel, F., Eisenhauer, F., Doeleman,
S. S., & Fish, V. L. 2012, *Astrophys. J.*, 758, 30
56. • “A Metric for Rapidly Spinning Black Holes Suitable for Strong-Field Tests of the No-Hair
Theorem”,
Johannsen, T., & **Psaltis, D.** 2011, *Phys. Rev. D.*, 83, 124015
57. • “Sgr A*: The Optimal Testbed of Strong Field Gravity”,
Psaltis, D., & Johannsen, T. 2011, *Journ. of Phys. Conf. Ser.*, 282, 2030 arXiv:1012.1602
58. “Testing the No-Hair Theorem with Observations in the Electromagnetic Spectrum”,
Johannsen, T., & **Psaltis, D.** 2011, *Adv. Spac. Res.*, 47, 528
59. • “Testing the No-Hair Theorem with Observations in the Electromagnetic Spectrum. III.
Quasi-Periodic Variability”,
Johannsen, T., & **Psaltis, D.** 2011, *Astrophys. J.*, 726, 11
60. • “Testing the No-Hair Theorem with Observations in the Electromagnetic Spectrum. II.
Black-Hole Images”,
Johannsen, T., & **Psaltis, D.** 2010, *Astrophys. J.*, 718, 446
61. • “Neutron Stars in $f(R)$ gravity with Perturbative Constraints”,
Cooney, A., DeDeo, P., & **Psaltis, D.** 2010, *Phys. Rev. D.*, 82, 064033
62. • “Testing the No-Hair Theorem with Observations in the Electromagnetic Spectrum. I.
Properties of a Quasi-Kerr Spacetime”,
Johannsen, T., & **Psaltis, D.** 2010, *Astrophys. J.*, 716, 187
63. • “Constraining Parity Violation in Gravity with Measurements of Neutron-Star Moments of
Inertia”,
Yunes, N., **Psaltis, D.**, Özel, F., & Loeb, A. 2010, *Phys. Rev. D*, 81, 064020
64. “Testing the No-Hair Theorem with Observations of Astrophysical Black Holes in the Elec-
tromagnetic Spectrum”,
Psaltis, D., & Johannsen, T. 2010, in *The Energetic Cosmos: From Suzaku to Astro-H*,
arXiv:0912.0022
65. “Two Approaches to Testing General Relativity in the Strong-Field Regime”,
Psaltis, D. 2009, in *New Developments in Gravity*, arXiv:0907.2746
66. • “Shrinking the Braneworld: Black Hole in a Globular Cluster”,
Gnedin, O. Y., Maccarone, T. J., **Psaltis, D.**, & Zepf, S. E. 2009, *Astrophys. J.*, 705, L168
67. • “Constraints on the Size of Extra Dimensions from the Orbital Evolution of X-ray Binaries”,
Johannsen, T., **Psaltis, D.**, & McClintock, J. E. 2009, *Astrophys. J.*, 691, 997
68. • “Probes and Tests of Strong-Field Gravity in the Electromagnetic Spectrum”,
Psaltis, D. 2008, *Living Reviews in Relativity*, 11, 9
69. • “Constraining Brans-Dicke Gravity with Millisecond Pulsars in Ultracompact Binaries”,
Psaltis, D. 2008, *Astrophys. J.*, 688, 1282

- 70. • “Kerr Black Holes are not Unique to General Relativity”,
Psaltis, D., Perrodin, D., Dienes, K., & Mocioiu, I. 2008, Physical Review Let., 100, 1101
- 71. • “Testing General Metric Theories of Gravity with Neutron Stars”,
Psaltis, D. 2008, Physical Review D., 77, 4006
- 72. • “Constraints on Braneworld Gravity from a Limit on the Kinematic Age of XTE J1118+480”,
Psaltis, D. 2006, Phys. Rev. Lett., 98, 1101
- 73. “Measuring Black-Hole Spins and Testing General Relativity”,
Psaltis, D. 2004, in The Future of X-ray Timing, 2004 (AIP) astro-ph/0402213
- 74. “Tests of Strong-Field Gravity with Compact Objects. I. Quasi Periodic Oscillations”,
DeDeo, S., & **Psaltis, D.** 2004, astro-ph/0405067
- 75. • “Towards New Tests of Strong-field Gravity with Measurements of Surface Atomic Line Redshifts from Neutron Stars”,
DeDeo, S., & **Psaltis, D.** 2003, Phys. Rev. Lett., 90, 141101

Papers on Cosmological Tests of Gravity

- 76. • “Special and General Relativistic Effects in Galactic Rotation Curves”,
Cooney, A., **Psaltis, D.**, & Zaritsky, D., 2013, Astrophys. J., submitted, arXiv:1202.2853
- 77. • “Outer Galactic Disks and a Quantitative Test of Gravity at Low Accelerations”, Zaritsky, D., & **Psaltis, D.** 2010, Astrophys. J., 720, L11
- 78. • “The Redshift Evolution of the Tully-Fisher Relation as a Test of Modified Gravity”,
Limbach, C. M., **Psaltis, D.**, & Özel, F. 2008, Astrophys. J., submitted, arXiv:0809.2790
- 79. • “Gravity with Perturbative Constraints: Dark Energy Without New Degrees of Freedom”,
Cooney, A., DeDeo, S., & **Psaltis, D.** 2009, Phys. Rev. D., 79, 044033
- 80. • “Stable, Accelerating Universes in Modified Gravity”,
DeDeo, S., & **Psaltis, D.** 2008, Physical Review D, 78, 4013

Papers on Compact Object Masses and Radii

- 81. • “Optimized statistical approach for combining multi-messenger data for neutron star equation of state inference.” Raithel, C., Özel, F., Psaltis, D. 2020, arXiv e-prints arXiv:2004.00656
- 82. • “Constraining the Neutron Star Mass-Radius Relation and Dense Matter Equation of State with NICER. I. The Millisecond Pulsar X-Ray Data Set” Bogdanov, S., and 29 colleagues 2019, Astrophys. J., 887, L25
- 83. • “X-ray Lightcurves from Realistic Polar Cap Models: Inclined Pulsar Magnetospheres and Multipole Fields.”
Lockhart, W., Gralla, S. E., Özel, F., **Psaltis, D.** 2019 MNRAS, 490, 714
- 84. • “Searches after Gravitational Waves Using ARizona Observatories (SAGUARO): System Overview and First Results from Advanced LIGO’ Virgo’s Third Observing Run”
Lundquist, M. J., and 56 colleagues 2019. Astrophys. J. 881, L26.

85. • “Finite-temperature Extension for Cold Neutron Star Equations of State”
Raithel, C. A., Özel, F., Psaltis, D. 2019. *Astrophys. J.*, 875, 12.
86. • “Atmospheric Structure and Radiation Pattern for Neutron-star Polar Caps Heated by Magnetospheric Return Currents” Bauböck, M., Psaltis, D., Özel, F. 2019 *Astrophys. J.*, 872, 162.
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