
DIMITRIOS PSALTIS

Astronomy and Physics Departments
University of Arizona
933 N. Cherry Ave.
Tucson, AZ 85721, U.S.A.

Phone: +1-520-626-8846
Fax: +1-520-521-4721
E-mail: dpsaltis@physics.arizona.edu
<http://www.physics.arizona.edu/~dpsaltis>

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

PROFESSIONAL ACTIVITIES

• Employment

2008 – Present : Associate Professor of Physics and Astronomy, University of Arizona
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

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
1991 : Erasmus Fellowship of the European Union for studies at
the University of Amsterdam

• Activities

2006 : SOC and LOC for “Rethinking Gravity” Conference
2003 : Peer Review Panel for NASA ATP program
2003 : SOC and LOC for IAS Workshop on Thermonuclear Bursts
2001 : Peer Review Panel for the Chandra X-ray Observatory
2000 : SOC for ROSSI 2000 conference, GSFC
1998 – Present : PI and Co-I in approved NASA ATP and LTSA proposals
1997 – Present : Peer Reviewer for *Ap. J.*, *MNRAS*, *A&A*, *Phys. Rev. D*, and *Phys. Rev. Lett.*
1997 : Peer Review Panel for the Rossi X-ray Timing Explorer
1995 – 2002 : Co-I in several approved Chandra, *RXTE*, and BeppoSAX proposals

RECENT INVITED TALKS

- “Tests of Strong-Field Gravity with Black Holes”,
Colloquium, Penn State University, October 6, 2008
Invited Talk, COSPAR Conference, Montreal, Canada, July 13, 2008
Invited Talk, Astrons Workshop, Istanbul, Turkey, July 1, 2008
Colloquium, Max-Planck Institute, Garching-bei-Munchen, Germany, June 24, 2008
Invited Talk, Recent Developments in Gravity, Thessaloniki, June 3, 2008
Colloquium, Albert Einstein Institute, Potsdam, Germany, May 28, 2008
Astronomy Colloquium, University of Illinois, April 22, 2008
SNS Seminar, Institute for Advanced Study, Princeton, March 20, 2008
Cosmology Talk, UC Davis, November 8, 2007
Physics Colloquium, MIT, October 11, 2007
Invited Talk, Space Telescope Science Institute Spring Conference, April 23, 2007
Astrophysics Colloquium, University of Chicago, March 14, 2007
Astrophysics Seminar, Columbia University, February 22, 2007
Institute for Theory and Comput. Colloquium, Harvard University, February 13, 2007
Physics and Astrophysics of Supermassive Black Holes, Santa Fe, July 9-14, 2006
- “New Test of Strong-Field Gravity with Neutron Stars and Black Holes”,
Astrophysics Colloquium, UC San Diego, February 21, 2006
KIPAC colloquium, SLAC, February 8, 2006
Astrophysics Colloquium, UC Santa Cruz, February 7, 2006
Invited talk at High Energy in the Highlands, Fort William, Scotland, June 28, 2005
Invited talk at Triggering Relativistic Jets, Cozumel, Mexico, Mar 28, 2005
Colloquium, Astronomy Department, New Mexico State University, February 25, 2005
Colloquium, Astronomy Department, University of Arizona, February 3, 2005
- “Measuring the Masses and Radii of Neutron Stars”,
Graduate Tutorial Lectures, High Energy Astrophysics Meeting, Sabanci University,
Istanbul, Turkey, August 2004
- “Towards New Tests of Strong-Field General Relativity”,
Colloquium, University of Crete, September 20, 2004
Colloquium, NASA/MSFC, January 14, 2004
Astronomy Seminar, University of Thessaloniki, Greece, December 19, 2003
Physics Colloquium, University of Arizona, May 2, 2003
Astrophysics Seminar, CITA, March 28, 2003
Astrophysics Seminar, NYU, February 25, 2003
- “Measuring Black Hole Spins and Testing General Relativity”,
The Future of X-ray Timing, Cambridge, MA, November 3–5, 2003
- “Burst Oscillations and kiloHertz QPOs”,
in Neutron Stars on Fire, IAS, May 11–13, 2003
- “Astrophysical Probes of Strong-Field Gravity”,
Colloquium, Rutgers Univ., May 5, 2002
Colloquium, IAS, Princeton, March 19, 2002
- “Models of X-ray Variability”,
Invited Lecture, ITP, Univ. of California Santa Barbara, February 2002

THESES ADVISED

• Ph. D. Theses

Dr. Martin Pessah “MHD Turbulence and Angular Momentum Transport in Accretion Disks”
May 2007
Now: IAS Princeton

Dr. Chi-Kwan Chan “Numerical Simulations of MHD Accretion Flows”
May 2007 (co-advised with F. Özel)
Now: ITC Harvard

Tim Johannsen “Testing Gravity Theories with Black Holes”
3rd year student
“Gravity with Perturbative Constraints”

Alan Cooney
3rd year student

• Senior Theses

Simon DeDeo “General Relativistic Constraints on Emission Models of AXPs”
Harvard 1999–2000 (co-advised with R. Narayan)
Now: UChicago

Pavlin Zavov “Eddington-Limited Bursts as Distance Estimators”
MIT 1999–2000 (co-advised with D. Chakrabarty)
Now: Caltech PhD

Robert Marcus “A 2D Algorithm for Photon Diffusion in Neutron Star Atmospheres”
2004–2005
Now: Harvard PhD

Wang Can “Viscous Damping of Oscillations in Accretion Disks”
2007–2008

LIST OF PUBLICATIONS

Articles in refereed journals are marked by a •

Papers on Tests of Strong-Field Gravity

1. • “Constraints on the Size of Extra Dimensions from the Orbital Evolution of X-ray Binaries”, Johannsen, T., **Psaltis, D.**, & McClintock, J. E. 2008, *Astrophys. J.*, in press, arXiv:0803.1835
2. • “Probes and Tests of Strong-Field Gravity in the Electromagnetic Spectrum”, **Psaltis, D.** 2008, *Living Reviews in Relativity*, 11, 9
3. • “Constraining Brans-Dicke Gravity with Millisecond Pulsars in Ultracompact Binaries”, **Psaltis, D.** 2008, *Astrophys. J.*, 688, 1282
4. • “Kerr Black Holes are not Unique to General Relativity”, **Psaltis, D.**, Perrodin, D., Dienes, K., & Mocioiu, I. 2008, *Physical Review Let.*, 100, 1101
5. • “Testing General Metric Theories of Gravity with Neutron Stars”, **Psaltis, D.** 2008, *Physical Review D.*, 77, 4006
6. • “Tests of Strong-Field Gravity with Compact Objects. I. Quasi Periodic Oscillations”, DeDeo, S., & **Psaltis, D.** 2008, *Phys. Rev. D.*, in press, astro-ph/0405067
7. • “Constraints on Braneworld Gravity from a Limit on the Kinematic Age of XTE J1118+480”, **Psaltis, D.** 2006, *Phys. Rev. Lett.*, 98, 1101
8. “Measuring Black-Hole Spins and Testing General Relativity”, **Psaltis, D.** 2004, in *The Future of X-ray Timing, 2004 (AIP)* astro-ph/0402213
9. • “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

10. • “Gravity with Perturbative Constraints: Dark Energy Without New Degrees of Freedom”, Cooney, A., DeDeo, S., & **Psaltis, D.** 2008, *Phys. Rev. D.*, submitted, arXiv:0811.3635
11. • “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
12. • “Stable, Accelerating Universes in Modified Gravity”, DeDeo, S., & **Psaltis, D.** 2008, *Physical Review D*, 78, 4013

Papers on MHD Turbulence in Accretion Disks

13. • “Spectral Methods for Time-Dependent Studies of Accretion Flows. III. Three-Dimensional MHD Flows”
Chan, C.-K., **Psaltis, D.**, & Özel, F., 2008, *Astrophys. J.*, in press, astro-ph/0612742
14. • “MHD Simulations of Accretion onto Sgr A*: Quiescent Fluctuations, Outbursts, and Quasi-Periodicity”
Chan, C.-K., Liu, S., Fryer, C.L., **Psaltis, D.**, Özel, F., and Melia, F. 2008, *Astrophys. J.*, in press, astro-ph/0611269

15. • “The Fundamental Difference Between Alpha-Viscosity and Turbulent Magnetorotational Stresses”
Pessah, M., Chan, C.-K., & **Psaltis, D.** 2008, MNRAS, 383, 683
16. • “Angular Momentum Transport in Accretion Disks: Scaling Laws in MRI-driven Turbulence”
Pessah, M., Chan, C.-K., & **Psaltis, D.** 2007, Astrophys. J., 668, L51
17. • “A Local Model for Angular Momentum Transport in Accretion Disks driven by the Magnetorotational Instability”
Pessah, M., Chan, C.-K., & **Psaltis, D.** 2006, Phys. Rev. Lett., 97, 1103
18. • “The Signature of the Magnetorotational Instability in the Reynolds and Maxwell Stress Tensors in Accretion Discs”
Pessah, M., Chan, C.-K., & **Psaltis, D.** 2006, MNRAS, 372, 183
19. • “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
20. • “The Stability of Magnetized Rotating Plasmas with Superthermal Magnetic Fields”,
Pessah, M., & **Psaltis, D.** 2005, Astrophys. J., 628, 879
21. • “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
22. “The Stability of Magnetized Rotating Plasmas with Strong Toroidal Fields”,
Pessah, M., & **Psaltis, D.** 2005, in The Electromagnetic Spectrum of Neutron Stars, eds. A. Baykal et al., in press

Papers on Neutron-Star Nuclear Flashes

23. • “The Mass and Radius of the Neutron Star in EXO 1745–248”,
Güver, T., Özel, F., & **Psaltis, D.** 2008, Astrophys. J., in press, arXiv:0810.1521
24. • “Biases for neutron-star mass, radius and distance measurements from Eddington-limited X-ray bursts”,
Galloway, D., Özel, F., & **Psaltis, D.** 2008, MNRAS, 387, 268
25. • “Thermonuclear (type-I) X-ray bursts observed by the Rossi X-ray Timing Explorer”,
Galloway, D., Muno, M., Hartman, J., Savov, P., **Psaltis, D.**, & Chakrabarty, D. 2008, Astrophys. J. Suppl., in press, astro-ph/0608259
26. • “Eddington-limited X-ray Bursts as Distance Indicators. II. Compositional Effects in Bursts from 4U 1636–536”,
Galloway, D., **Psaltis, D.**, Chakrabarty, D., & Muno, M. 2006, Astrophys. J., 639, 1033
27. • “Eddington-limited X-ray Bursts as Distance Indicators. I. Systematic Trends and Spherical Symmetry in Bursts from 4U 1728–34”,
Galloway, D., **Psaltis, D.**, Chakrabarty, D., & Muno, M. 2003, Astrophys. J., 590, 999
28. • “The Frequency Stability of Millisecond Oscillations in Thermonuclear X-Ray Bursts”
Muno, M., Chakrabarty, D., Galloway, D., & **Psaltis, D.** 2002, Astrophys. J., 580, 1048

Papers on Photon Transport in Accretion Flows

29. • “Constraining Radiatively Inefficient Accretion Flows with Polarization”,
Ballantyne, D. R., Özel, F., & **Psaltis, D.** 2008, *ApJ*, 663, L17
30. “Spectra and Time Variability of Black-Hole Binaries in the Low/Hard State”,
Kylafis, N. D., Giannios, D., & **Psaltis, D.** 2006, *Advanc. Space Research.*, 38, 2810
31. • “Spectra and time variability of galactic black-hole X-ray sources in the low/hard state”,
Giannios, D., Kylafis, N. D., & **Psaltis, D.** 2004, *Astron. & Astrophys.*, 425, 163
32. “A Jet Model of Time Lags in Accreting Black-Hole Sources”,
Kylafis, N. D., Giannios, D., & **Psaltis, D.** 2004, in *The Future of X-ray Timing, 2004 (AIP)*
33. • “Radiative Transfer in Obliquely Illuminated Accretion Disks”,
Psaltis, D. 2002, *Astrophys. J.*, 574, 306
34. • “Compton Scattering in Static and Moving Media. II. System-Frame Solutions for Spherically Symmetric Flows”,
Psaltis, D. 2001, *Astrophys. J.*, 555, 786
35. • “Hybrid Thermal-Nonthermal Synchrotron Emission from Hot Accretion Flows”,
Özel, F., **Psaltis, D.**, & Narayan, R. 2000, *Astrophys. J.*, 541, 234
36. “Photon Scattering by Relativistic Flows in Schwarzschild Spacetimes. I. The Generation of Power-Law Spectra”,
Papathanassiou, H., & **Psaltis, D.** 2000, *astro-ph/0011447*
37. “Compton Upscattering by Accretion Flows”,
Psaltis, D., & Lamb, F.K. 1999, *Workshop on High Energy Processes in Accreting Black Holes*, eds. J. Poutanen & R. Svensson, p. 410
38. • “The Magnetic Fields of Neutron Stars in Low-Mass X-ray Binaries”,
Psaltis, D., & Lamb, F. K. 1999, *Astrophys. and Astron. Transactions*, 18, 447 (Refereed proceedings of the 4th JENAM)
39. “Magnetic Fields of Neutron Stars in Low-Mass X-ray Binaries”,
Psaltis, D., & Lamb, F.K. 1998, *Neutron Stars and Pulsars*, Tokyo, Japan, p. 179
40. “Compton Scattering and the X-ray Spectra of Accreting Compact Objects”,
Psaltis, D., & Lamb, F.K. 1998, *Proceedings of the 8th Annual Astrophysics Conference in Maryland*, p. 125
41. • “Compton Scattering in Static and Moving Media. I. The Transfer Equation and its Moments”,
Psaltis, D., & Lamb, F.K. 1997, *Astrophys. J.*, 488, 881
42. “X-ray Spectra of Neutron Stars in Low-Mass Binary Systems”,
Psaltis, D., Lamb, F.K., & Miller, G.S. 1996, in the *Proceedings of the 2nd Hellenic Astronomical Conference*, Thessaloniki, Greece, p. 330
43. • “X-ray Spectra of Z sources”,
Psaltis, D., Lamb, F.K., & Miller, G.S. 1995, *Astrophys. J.*, 454, L137

Papers on Photon Transport Around Neutron Stars

44. • “Spectral Lines from Rotating Neutron Stars”,
Özel, F., & **Psaltis, D.** 2003, *Astrophys. J.*, 582, L31
45. • “Constraints on Thermal Emission Models of Anomalous X-ray Pulsars”,
Özel, F., **Psaltis, D.**, & Kaspi, V. 2001, *Astrophys. J.*, 563, 255
46. • “General Relativistic Constraints on Emission Models of Anomalous X-ray Pulsars”,
DeDeo, S., **Psaltis, D.**, & Narayan, R. 2000, *Astrophys. J.*, 559, 346
47. • “Photon Propagation Around Compact Objects and the Inferred Properties of Thermally Emitting Neutron Stars”,
Psaltis, D., Özel, F., & DeDeo, S. 2000, *Astrophys. J.*, 544, 390

Papers on Compact-Object Variability (Theory)

48. • “Super-Keplerian Frequencies in Accretion Disks. Implications for Mass and Spin Measurements of Compact Objects from X-ray Variability Studies”,
Mao, S. A., **Psaltis, D.**, Milsom, J. A. 2008, *Astrophys. J.*, submitted, arXiv:0805.0598
49. • “The Highest Dynamical Frequency in the Inner Region of an Accretion Disk”
Alpar, M. A. & **Psaltis, D.** 2008, *MNRAS*, in press
50. • “Quasi-periodic oscillations as global hydrodynamic modes in the boundary layers of viscous accretion disks”,
Erkut, H., **Psaltis, D.**, Alpar, M. A. 2008, *Astrophys. J.*, 687, 1220
51. • “Models of Variability of Neutron Stars and Black Holes”,
Psaltis, D. 2001, *Adv. Sp. Res.*, (refereed proceedings of the COSPAR 2000 meeting) 28, 481
52. “On the Origin of Correlated Variability Frequencies in Accreting Neutron Stars and Black Holes”,
Psaltis, D., & Norman, C. 2000, astro-ph/0001391
53. • “Bounds on Neutron-Star Moments of Inertia and the Evidence for General Relativistic Frame Dragging”,
Kalogera, V., & **Psaltis, D.** 2000, *Phys. Rev. D.*, 61, 024009
54. • “On the Magnetospheric Beat-Frequency and Lense-Thirring Interpretations of the Horizontal Branch Oscillation in Z sources”,
Psaltis, D., Wijnands, R., Homan, J., Jonker, P. G., van der Klis, M., Miller, M. C., Lamb, F. K., Kuulkers, E., van Paradijs, J., & Lewin, W. H. G. 1999, *Astrophys. J.*, 520, 763
55. “Constraints on neutron star matter from kilohertz QPOs”,
Lamb, F. K., Miller, M. C., & **Psaltis, D.** 1998, Proceedings of the Hirschegg '98 meeting on nuclear physics, Hirschegg, Austria
56. “The Origin of Kilohertz QPOs and Implications for Pulsars”,
Lamb, F.K., Miller, M.C., & **Psaltis, D.** 1998, *Neutron Stars and Pulsars*, Tokyo, Japan, p. 89

57. “Constraints on the Equation of State of Neutron Star Matter From Observations of KiloHertz QPOs”,
Miller, M.C., Lamb, F.K., & **Psaltis, D.** 1998, Nucl. Phys. B-Proc. Suppl. 69, 123
58. “Rapid X-ray Variability of Neutron Stars in Low-Mass Binary Systems”,
Lamb, F.K., Miller, M.C., & **Psaltis, D.** 1998, Nucl. Phys. B-Proc. Suppl. 69, 113
59. “Constraints on Neutron Star Masses and Radii from KiloHertz QPOs”,
Lamb, F.K., Miller, M.C., & **Psaltis, D.** 1998, Proceedings of the 8th Annual Astrophysics Conference in Maryland, p. 389
60. • “Sonic-Point Model of KiloHertz QPOs in LMXBs”,
Miller, M.C., Lamb, F.K., & **Psaltis, D.** 1998, Astrophys. J., 508, 791
61. “Sonic-Point Model of KiloHertz QPOs in LMXBs”,
Miller, M.C., Lamb, F.K., & **Psaltis, D.** 1997, Proceedings of the 18th Texas Symposium, p. 761

Papers on Compact-Object Variability (Interpretation & Observations)

62. • “Tracing the Power-Law Component in the Energy Spectrum of Black-Hole Candidates as a Function of the QPO Frequency”
Vignarca, F., Migliari, S., Belloni, T., **Psaltis, D.**, & van der Klis, M. 2003, Astron. & Astrophys., 397, 729
63. • “A Unified Description of the Timing Features of Accreting X-ray Binaries”,
Belloni, T., **Psaltis, D.**, & van der Klis, M. 2002, Astrophys. J., 572, 392
64. • “Quasi-Periodic Variability and the Inner Radii of Accretion Disks in Galactic Black-Hole Systems”,
Di Matteo, T., & **Psaltis, D.** 1999, Astrophys. J., 526, L101
65. • “Correlations in Quasi-Periodic Oscillation and Noise-Component Frequencies Among Neutron-Star and Black-Hole X-ray Binaries”,
Psaltis, D., Belloni, T., & van der Klis, M. 1999, Astrophys. J., 520, 262
66. “A varying kHz peak separation in 4U 1608-52”,
Mendez, M., van der Klis, M., van Paradijs, J., Lewin, W.H.G., Vaughan, B.A., Kuulkers, E., Zhang, W., Lamb, F.K., & **Psaltis, D.** 1998, Proceedings of the 8th Annual Astrophysics Conference in Maryland, p. 385
67. • “Discovery of kHz QPOs in the Z source GX 5-1”,
Wijnands, R., Mendez, M., van der Klis, M., **Psaltis, D.**, Kuulkers, E., & Lamb, F. K. 1998, Astrophys. J., 504, L35
68. • “The Beat-Frequency Interpretation of KiloHertz QPOs in Neutron Star Low-Mass X-ray Binaries”,
Psaltis, D., Méndez, M., Wijnands, R., Homan, J., Jonker, P. G., van der Klis, M., Lamb, F. K., Kuulkers, E., van Paradijs, J., & Lewin, W. H. G. 1998, Astrophys. J., 501, L95
69. • “Discovery of kHz QPOs in the Z source GX340+0”,
Jonker, P.G., Wijnands, R., van der Klis, M., **Psaltis, D.**, Kuulkers, E., Lamb, F.K. 1998, Astrophys. J., 499, L191

- 70. • “Discovery of a second kHz QPO peak in 4U 1608-52”,
Mendez, M., van der Klis, M., van Paradijs, J., Lewin, W.H.G., Vaughan, B.A., Kuulkers, E., Zhang, W., Lamb, F.K., & **Psaltis, D.** 1998, *Astrophys. J.*, 494, L65
- 71. • “Discovery of KiloHertz Quasi-Periodic Oscillations in the Z source Cygnus X-2”,
Wijnands, R., Homan, J., van der Klis, M., Kuulkers, E., van Paradijs, J., Lewin, W., Lamb, F., **Psaltis, D.**, & Vaughan, B., 1997, *Astrophys. J.*, 493, L87
- 72. • “Discovery of KiloHertz Quasi-Periodic Oscillations in GX 17+2”,
Wijnands, R., Homan, J., van der Klis, M., Kuulkers, E., van Paradijs, J., Lewin, W., Lamb, F., **Psaltis, D.**, & Vaughan, B., 1997, *Astrophys. J.*, 490, L157
- 73. • “KiloHertz QPO and Atoll Source States in 4U 0614+09”,
Mendez, M., van der Klis, M., van Paradijs, J., Lamb, F.K., Vaughan, B., Kuulkers, E., & **Psaltis, D.** 1997, *Astrophys. J.*, 485, L37
- 74. • “Discovery of Microsecond Time-Lags in KiloHertz QPOs”,
Vaughan, B., van der Klis, M., Mendez, M., van Paradijs, J., Wijnands, R., Lewin, W.H.G., Lamb, F.K., **Psaltis, D.**, Kuulkers, E., & Oosterbroek, T. 1997, *Astrophys. J.*, 483, L115
- 75. • “Discovery of a Variable-Frequency, 50–60 Hz Quasi-Periodic Oscillation on the Normal Branch of GX 17+2”,
Wijnands, R.A.D., van der Klis, M., **Psaltis, D.**, Lamb, F.K., Kuulkers, E., Dieters, S., van Paradijs, J., Vaughan, B.A., & Lewin, W.H.G. 1996, *Astrophys. J.*, 469, L5

Other Papers

- 76. • “Implications of the Narrow Period Distribution of Anomalous X-ray Pulsars and Soft Gamma-Ray Repeaters”,
Psaltis, D., & Miller, M. C. 2002, *Astrophys. J.*, 578, 325
- 77. • “Ultracompact X-Ray Binaries with Neon-Rich Degenerate Donors”,
Juett, A., **Psaltis, D.**, & Chakrabarty, D. 2001, *Astrophys. J.*, 560, L59
- 78. “Identification of Physical Components in Pulsar Emission”,
Seiradakis, J. H., Karastergiou, A., Kramer, M., & **Psaltis, D.** 2000, in *Pulsar Astronomy and Beyond*
- 79. • “The Disk-Magnetosphere Interaction in the Accretion-Powered Millisecond Pulsar SAX J1808.4-3658”,
Psaltis, D., & Chakrabarty, D. 1999, *Astrophys. J.*, 521, 332
- 80. • “Structure of the Magnetic Field Near Weakly-Magnetic Neutron Stars Accreting From Disks”,
Psaltis, D., Lamb, F.K., & Zylstra, G.J. 1996, *Astrophys. Lett. & Commun.*, 34, 377 (Referred proceedings of the NATO ASI: Solar and Astrophysical MHD Flows)
- 81. • “A Strongly Magnetic Neutron Star in a Face-on Binary System”,
Daumerie, P., Kalogera, V., Lamb, F.K., & **Psaltis, D.** 1996, *Nature*, 382, 141
- 82. “The moding behavior of PSR 1237+25”,
Psaltis, D., & Seiradakis, J.H. 1996, in the *Proceedings of the 2nd Hellenic Astronomical Conference*, Thessaloniki, Greece, p. 330

83. • “Hydromagnetic Waves and the Linewidth-Size Relation in Interstellar Molecular Clouds”, Mouschovias, T.Ch., & **Psaltis, D.** 1995, *Astrophys. J.*, 444, L105

Chapters in Books

84. “Accreting Neutron Stars and Black Holes: A Decade of Discoveries”, **Psaltis, D.** 2006, Chapter 1 in *Compact Stellar X-ray Sources*, eds. W. H. G. Lewin and M. van der Klis (Cambridge: University Press), astro-ph/0410536