

CURRICULUM VITAE

FERYAL ÖZEL

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Biography: Born May 27, 1975; Istanbul; Dual U.S./Turkish Citizen

RESEARCH INTERESTS

Theoretical and Computational Astrophysics, High Energy Astrophysics, Cosmology,
Observational X-ray and Infrared Astronomy

EDUCATION

Ph. D. in Physics, Harvard University 2002
Thesis Title: The Effects of Strong Magnetic and Gravitational Fields on Neutron Star
Atmospheres, Advisor: Ramesh Narayan
M. S. in Particle Physics, Niels Bohr Institute, Denmark 1997
Thesis Title: Search for the Supersymmetric Decays of the Higgs Boson at ALEPH
B. S. in Applied Physics and Mathematics, Columbia University 1996
Summa cum Laude, Tau Beta Pi Honor Society

EMPLOYMENT

Fellow, Radcliffe Institute for Advanced Study, Harvard University 2012 – 2013
Associate Professor, University of Arizona 08/2010 – Present
Visiting Professor, Institute of Astronomy, University of Cambridge 05/2011 – 06/2011
Visiting Professor, Harvard-Smithsonian Center for Astrophysics 08/2009 – 01/2010
Visiting Scientist, Max-Planck Institut für Astrophysik 06/2008
Visiting Scientist, Los Alamos National Laboratory 07/2006 – 08/2006
Assistant Professor, University of Arizona 01/2005 – 4/2010
Hubble Fellow, University of Arizona 09/2003 – 1/2005
Hubble Fellow, Institute for Advanced Study 2002 – 2003
Member, Keck Fellow, Institute for Advanced Study 2001 – 2002
Research Assistant, Center for Astrophysics, Harvard University 1998 – 2001
Summer Research Fellow, CERN 1995
Summer Research Assistant, Chemistry Dept., Columbia University 1994
Science Tutor for the Higher Education Opportunity Program 1992 – 94

HONORS AND AWARDS

American Physical Society Maria Goeppert Mayer Award 2013
U.C. Berkeley Miller Institute Visiting Professorship 2013
Harvard University Radcliffe Institute Fellowship 2012-2013

San Diego Astronomy Association Lucas Award	2010
Bart J. Bok Prize , Harvard University	2010
Turkish Scientific and Tech. Research Foundation Visiting Scholar Fellowship	2007
NASA Hubble Postdoctoral Fellowship	2002 – 05
Distinguished Scholar Award , Daughters of Atatürk Foundation	2003
Keck Fellowship , Institute for Advanced Study	2002
Van Vleck Fellowship , Harvard University	1999
Kostrup Prize , Niels Bohr Institute	1997
Niels Bohr Institute Graduate Fellowship	1996 – 97
Applied Mathematics Faculty Award , Columbia University	1996
Fu Foundation Scholarship , Columbia University	1994 – 96
CERN Research Fellowship	1995
Turkish Health and Education Foundation Scholarship	1992 – 94

PROFESSIONAL SERVICE

NASA Astrophysics 30 year Roadmap Team	2013
Peer Review Panel for NASA Astrophysics Theory Program	2012
Co-Investigator on NICER	2010 – Present
NASA’s Neutron Star Interior Composition Explorer Mission	
Co-Investigator on LOFT	2010 – Present
ESA’s Large-Area X-ray Timing Mission	
Peer Review Panel for NASA’s Chandra X-ray Observatory	
Cycles 8, 9, 11 (deputy-chair), 12 (chair)	2006, 2007, 2009, 2010
Peer Review Panel for NSF Astrophysics	2006, 2008
Scientific Organizing Committee Member	2005
for Workshop on Neutron Stars at the Crossroads of Fundamental Physics Vancouver, Canada	
Scientific and Local Organizer	2002
for Workshop on Thermonuclear Bursts on Neutron Stars, IAS, Princeton	
Member of the American Astronomical Society	2001 – Present
Referee for Physical Review Letters, Physical Review D, Astrophysical Journal, Astrophysical Journal Letters, Monthly Notices of the Royal Astronomical Society	2000 – Present

TEACHING

Graduate Interstellar Medium and Star Formation	Fall 2011
Energy, Society, and the Environment	Spring 2009, 2011, 2012
Graduate Theoretical Astrophysics	Spring 2011, Fall 2007, Fall 2005
Graduate Mathematical Methods for Physics	Fall 2010
Mathematical Methods for Physics	Spring 2008, Fall 2008
Electricity and Magnetism	Spring 2006
Quantum Physics and Relativity	Spring 2005, Fall 2005
Introductory Physics	Fall 2004

Invited Lecture Series:

Institute for Theoretical and Applied Physics Summer School “Physics of Stars” (http://web.iku.edu.tr/eisik/PhyStars/Introduction.html), Turunc (7 lectures)	2011
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NBIA Summer School on Stellar Collapse, Compact Objects, Supernovae, and Gamma-Ray Bursts (http://compschool2009.org), Niels Bohr Institute, Copenhagen (3 lectures)	2009
“Compact Objects”, INPE (Brazilian Space Agency) Advanced Course on Astrophysics (http://www.das.inpe.br/school/index.htm), Sao Paulo (5 lectures)	2007
“Surfaces of Neutron Stars”, High Energy Astrophysics Workshop, Istanbul (5 lectures)	2004

Graduate Students:

Michi Bauböck, Ph.D. candidate, Theoretical and Computational Astrophysics

Project Title: “Observational Appearance of Rapidly Spinning Neutron Stars”

Phillip Jenks, Ph.D. candidate, Theoretical and Computational Astrophysics

Project Title: “Growth of Massive Black Holes by Super-Eddington Accretion”

Daniel Angles-Alcazar, Ph.D. candidate, Theoretical and Computational Astrophysics

Project Title: “High-Resolution Simulations of Galaxy-Black Hole Co-evolution across Cosmic Time”

Kristian Finlator, Ph.D., August 2009, Theoretical Astrophysics and Cosmology

Thesis Title: “Comparing Cosmological Hydrodynamic Simulations with Observations of High-Redshift Galaxy Formation”; awarded a Hubble Postdoctoral Fellowship

Tolga Güver, Ph.D., January 2008, Theoretical and Observational Astrophysics

Thesis Title: “X-ray Spectra of Magnetars: Theoretical Models and Applications”; currently a postdoctoral associate at the University of Arizona

Chi-kwan Chan, Ph.D., June 2007, Theoretical and Computational Astrophysics

Thesis Title: “Numerical Models of Magnetohydrodynamic Turbulent Flows”; currently an ITC fellow at Harvard Center for Astrophysics

Independent Studies:

Katherine Brutlag (Ph.D. student, 1st year Astronomy); Project Title: “Growth of Supermassive Black Holes and the $M - \sigma$ Relation”

Michael Kruse (PhD Student, 3rd year Physics); Project Title: “Constraining the Neutron Star Equation of State using Measurements of Neutron Star Radii”

Arif Erkoca (PhD student; Physics; independent study lasted 1.5 years); Project Title: “Photon Propagation Around Rotating Neutron Stars”

Erica McEvoy (PhD student; Applied Math; independent study lasted 1 year); Project Title: “Numerical Models for Multidimensional Radiative Hydrodynamic Simulations”

Undergraduate Research and Thesis Advisees:

Chris Limbach, Independent Study, 2008-2009

(undergraduate, senior, Astronomy and Physics); Project Title: “The Redshift Evolution of the Tully-Fisher Relation as a Test of Modified Gravity”

Patricia Wroblewski (undergraduate, senior, Astronomy and Physics); Project Title: “Hydrogen Column Density Measurements in High Resolution X-ray Spectra”

Kara Farnsworth (undergraduate, senior, Astronomy and Physics); Project Title: “Images of the Accretion Flow around the Black Hole at the Galactic Center”

David Hernandez (PhD student; independent study lasted 1 year), Project Title: “Rapidly Rotating Neutron Star Spacetimes”

Sui Ann Mao (currently PhD student, Harvard University); Project Title: “Synchrotron Radiation from Magnetars and Applications to IR Emission from Anomalous X-ray Pulsars”

INVITED PRESENTATIONS AND OUTREACH

Selected Invited Conference Talks and Colloquia on: Constraining Neutron Star Equation of State; Black Hole and Neutron Star Populations; The Galactic Center; Supermassive Black Hole Growth and Galaxies; Cosmic Reionization; Magnetars and Signatures of Quantum Electrodynamical Processes

Harvard University Institute for Theory and Computation Colloquium March 2013
University of Chicago Colloquium, January 2013
IAU General Assembly, Beijing, August 2012
Max Planck Institut für RadioAstronomie Colloquium, June 2012
Sackler Conference, Harvard-Smithsonian Center for Astrophysics, May 2012
Washington University St. Louis Physics Colloquium, April 2012
Princeton University Astronomy Colloquium, April 2012
UC Santa Barbara Astrophysics Seminar, March 2012
Arizona State University Neutron Star Conference, March 2012
University of Wisconsin Milwaukee Physics Colloquium, March 2012
Albert Einstein Institute for Gravitational Physics, Hannover, Germany, November 2011
Columbia University Astrophysics Colloquium, October 2011
NYU Astrophysics Seminar, October 2011
Asia Pacific Center for Theoretical Physics “Dense Matter to Compact Stars” Conference, Korea, August 2011
JENAM Conference, St Petersburg, July 2011
Institute of Astronomy, Cambridge, June 2011
American Astronomical Society Meeting, Boston, May 2011
American Physical Society Meeting, Long Beach, May 2011
Ohio State University Astronomy Colloquium, April 2011
Neutron Star and Neutrino Workshop, ASU, April 2011
Wideband X-ray Astronomy Conference, Pune, India, January 2011 (2 talks)
Los Alamos National Laboratory Astrophysics Seminar, December 2010
Exploring Physics with Neutron Stars Conference, Arizona, November 2010
Rice University Colloquium, November 2010
Lorentz Center Thermonuclear Burst Meeting, July 2010
COSPAR General Assembly, Bremen, July 2010 (2 talks)
Harvard University CfA Colloquium/Bok Prize Lecture, May 2010
MIT Astrophysics Colloquium, May 2010
Penn State Astronomy and Center for Gravitational Wave Physics Colloquium, April 2010
HEAD Meeting, Hawaii, March 2010
Harvard Institute for Theory and Computation Colloquium, October 2009
Arizona State University Neutron Star Conference, April 2009
University of British Columbia Astronomy Seminar, October 2008
Max Planck Institute MPA Seminar, Munich, June 2008
Albert Einstein Institute Seminar, Potsdam, June 2008
HEAD Meeting Invited Talk, LA, March 2008
UC Berkeley Theoretical Astrophysics Seminar, February 2008
MIT Astronomy Colloquium, October 2007
Marie-Curie Workshop on Neutron Stars, ASTRONS, Istanbul, July 2007
American Physical Society Meeting, Jacksonville, FL, April 2007
Argonne National Laboratory Nuclear Physics Seminar, April 2007
Harvard Center for Theory and Computation Colloquium, October 2007
Forty Years of Pulsars Conference, Montreal, August 2007
Harvard-CfA Colloquium, February 2007
Institute for Advanced Study Colloquium, February 2007
Columbia University Astrophysics Colloquium, February 2007

MEDIA: TV Documentaries and Public Talks

Harvard Radcliffe Institute Public Talk: “Physics at the Edge of a Black Hole”, December 2012

Turkish Radio and Television Documentary: “Edges of the Universe”, 3 episodes, December 2012
- May 2013

University of Arizona Cosmic Origins Lecture Series: “Origins of Black Holes: Gravity at its Extreme”, February 2011

available on iTunes and youtube

Louis Vuitton Women’s Literacy Campaign Spokesperson, November 2010

Novartis Pharmaceuticals and Medicine Awards, Keynote Speaker, April 2010

“10 Ways to Destroy the Earth”, The Universe Documentary, History Channel, 2009

“Clues and Puzzles from the Universe: from Galileo to Present”, International Year of Astronomy

Public Lectures in Turkey and Tucson, 2009

“Sustainable Energy, Society, and the Environment”, Steward Public Evening Lecture, 2009

“My City and My Life: Astronomy in Tucson”, CNN International, 2008

“Extreme Properties of Neutron Stars”, University of British Columbia Public Event, 2008

“Sustainable Energy, Society, and the Environment”, Biosphere 2 Public Lecture, 2008

“Dangerous Places in the Universe”, The Universe Documentary, History Channel, 2007

“The Evolution of the Universe”, TEVITOL High School, Istanbul, 2007

“Mysteries of the Universe”, Istanbul Astronomy Day, 2007

“Neutron Stars and Black Holes”, Tucson Area High School Teachers Association, 2005

“Big Ideas”, PBS Documentary, 2002

GRANTS

Total funding: \$3,762,000

NASA Neutron-star Interior Composition Explorer (NICER), Gendreau K (NASA/GSFC, PI), Özel, F. (Arizona, Co-I) and several other funded CoIs, 2015-2018, \$464,000 at the University of Arizona

“MRI: Acquisition of a Graphics Processor Unit-Accelerated High Performance Computer for Astrophysics, Computer Science, and Broad Numerical Research at the University of Arizona”, Co-PI National Science Foundation, \$1,270,933, 2012

“Mapping Neutron-Star Surfaces During Thermonuclear Flashes using Archival RXTE Observations of Burst Oscillations”, Co-I (PI: Dimitrios Psaltis)
NASA Astrophysics Data Program, \$208,068, 2012-2014

“The Apparent Surface Areas of Spinning Neutron Stars”, Co-I (PI: Dimitrios Psaltis)
Chandra X-ray Observatory Cycle 13 (Theory), \$88,000, 2012-2014

“Masses, Radii, and Spins of Compact Objects in our Galaxy”, PI
National Science Foundation, \$348,000, 2011-2014

“Measuring the Neutron Star Equation of State through Multiwavelength Observations of their Masses and Radii”, PI
NASA Astrophysics Data Program, \$301,349, 2010-2012

“X-ray Column Density towards the Low Mass X-ray binary 4U 1608-52”, PI
Chandra X-ray Observatory Cycle 11 DDT Observations, \$19,000, 2010-2011

“An Archival Study of Supernova Remnants”, PI
NASA Chandra X-ray Observatory Cycle 11, \$79,000, 2010-2011

“A Comprehensive Study of the Spectra of X-ray Bursters”, PI
NASA Chandra X-ray Observatory Cycle 11 (Theory), \$78,000, 2010-2011

“Simulations of Early Galaxy Formation”, Co-I (PI: Romeel Dave)
National Science Foundation, \$354,184, 2009-2012

“Neutron Stars as Probes of Fundamental Physics”, PI
National Science Foundation, \$329,182, 2007-2011

“Neutron Stars as Probes of Fundamental Physics Supplemental Funding”, PI
National Science Foundation, \$39,535, 2007-2011

“Multiwavelength Spectral and Timing Studies of Strong-Field Processes in Compact Objects”, PI
NASA Space Telescope Science Institute, \$183,000, 2002-2005

LIST OF PUBLICATIONS

FERYAL ÖZEL

1. Anglés-Alcázar, D., **Özel, F.**, Davé, R. 2013. Black Hole-Galaxy Correlations without Self-Regulation. *The Astrophysical Journal*, in press, ArXiv e-prints arXiv:1303.5058
2. Sądowski, A., Sironi, L., Abarca, D., Guo, X., **Özel, F.**, Narayan, R. 2013. Radio light curves during the passage of cloud G2 near Sgr A*. *Monthly Notices of the Royal Astronomical Society* 1142, 1
3. Güver, T. & **Özel, F.** 2013. The Mass and the Radius of the Neutron Star in the Transient Low Mass X-ray binary SAX J1748.9-2021. *The Astrophysical Journal* 765, L1
4. Bauböck, M., Psaltis, D., **Özel, F.** 2013. Narrow Atomic Features from Rapidly Spinning Neutron Stars. *The Astrophysical Journal*, 766, 87
5. **Özel, F.** 2013. Surface Emission from Neutron Stars and Implications for the Physics of their Interiors. *Reports on Progress in Physics* 76, 016901
6. Finlator, K., Oh, P., **Özel, F.**, Davé, R. 2012. Gas Clumping in Self-Consistent Reionization Models, *Monthly Notices of the Royal Astronomical Society*, 427, 2464
7. Feroci, M., and 202 colleagues 2012. The Large Observatory for X-ray Timing (LOFT). *Experimental Astronomy* 34, 415
8. Narayan, R., **Özel, F.**, Sironi, L. 2012. Radio Synchrotron Emission from a Bow Shock around the Gas Cloud G2 Heading toward the Galactic Center. *Astrophysical Journal Letters*, 757, L20
9. Johannsen, T., Psaltis, D., Gillessen, S., Marrone, D. P., **Özel, F.**, Doeleman, S. S., Fish, V. L. 2012. Masses of Nearby Supermassive Black Holes with Very Long Baseline Interferometry *Astrophysical Journal*, 758, 30
10. **Özel, F.**, Psaltis, D., Narayan, R., Villarreal, A. S. 2012. On the Mass Distribution and Birth Masses of Neutron Stars. *Astrophysical Journal*, 757, 55
11. Güver, T., Göğüş, E., **Özel, F.** 2012. On the cooling trend of SGR 0526-66. *Monthly Notices of the Royal Astronomical Society* 424, 210
12. Ratti, E. M., and 12 colleagues 2012. The black hole candidate XTE J1752-223 towards and in quiescence: optical and simultaneous X-ray-radio observations. *Monthly Notices of the Royal Astronomical Society* 423, 2656
13. Feroci, M., and 248 colleagues 2012. LOFT: the Large Observatory For X-ray Timing. *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series* 8443
14. Gáspár, A., Psaltis, D., Rieke, G. H., **Özel, F.** 2012. Modeling Collisional Cascades In Debris Disks: Steep Dust-Size Distributions. *Astrophysical Journal*, 754, 74
15. Bauböck, M., Psaltis, D., **Özel, F.**, Johannsen, T. 2012. A Ray-Tracing Algorithm for Spinning Compact Object Spacetimes with Arbitrary Quadrupole Moments. II. Neutron Stars. *Astrophysical Journal*, 753, 175

16. Gaspar, A., Psaltis, D., **Özel, F.**, Rieke, G. H., Cooney, A. 2012. Modeling Collisional Cascades In Debris Disks: The Numerical Method. *Astrophysical Journal*, 749, 14
17. **Özel, F.**, Gould, A., Güver, T. 2012. The Mass and Radius of the Neutron Star in the Bulge Low-Mass X-ray Binary KS 1731-260. *The Astrophysical Journal*, 748, 5
18. Güver, T., **Özel, F.**, Psaltis, D. 2012. Systematic Uncertainties in the Spectroscopic Measurements of Neutron-Star Masses and Radii from Thermonuclear X-ray Bursts. II. Eddington Limit. *The Astrophysical Journal*, 747, 77
19. Güver, T., Psaltis, D., **Özel, F.** 2012. Systematic Uncertainties in the Spectroscopic Measurements of Neutron-Star Masses and Radii from Thermonuclear X-ray Bursts. I. Apparent Radii. *The Astrophysical Journal*, 747, 76
20. Güver, T., Göğüş, E., **Özel, F.** 2011. A Magnetar Strength Surface Magnetic Field for the Slowly Spinning Down SGR 0418+5729. *Monthly Notices of the Royal Astronomical Society*, 418, 2773
21. Finlator, K., Davé, R., **Özel, F.** 2011. Galactic Outflows and Photoionization Heating in the Reionization Epoch. *The Astrophysical Journal* 743, 169
22. Feroci, M., and 202 colleagues 2011. The Large Observatory for X-ray Timing (LOFT). *Experimental Astronomy* 39
23. Jonker, P. G., and 24 colleagues 2011. The Galactic Bulge Survey: Outline and X-ray Observations. *The Astrophysical Journal Supplement Series* 194, 18
24. Ng, C.-Y., Kaspi, V. M., Dib, R., Olausen, S. A., Scholz, P., Güver, T., **Özel, F.**, Gavriil, F. P., Woods, P. M. 2011. Chandra and RXTE Observations of 1E 1547.0-5408: Comparing the 2008 and 2009 Outbursts. *The Astrophysical Journal* 729, 131
25. Göğüş, E., Güver, T., **Özel, F.**, Eichler, D., Kouveliotou, C. 2011. Long-term Radiative Behavior Of SGR 1900+14. *The Astrophysical Journal* 728, 160
26. **Özel, F.**, Psaltis, D., Narayan, R., McClintock, J. E. 2010. The Black Hole Mass Distribution in the Galaxy. *The Astrophysical Journal* 725, 1918-1927
27. **Özel, F.**, Psaltis, D., Ransom, S., Demorest, P., Alford, M. 2010. The Massive Pulsar PSR J1614-2230: Linking Quantum Chromodynamics, Gamma-ray Bursts, and Gravitational Wave Astronomy. *The Astrophysical Journal* 724, L199-L202
28. **Özel, F.**, Baym, G., Güver, T. 2010. Astrophysical Measurement of the Equation of State of Neutron Star Matter. *Physical Review D* 82, 101301
29. Lin, J., **Özel, F.**, Chakrabarty, D., Psaltis, D. 2010. The Incompatibility of Rapid Rotation with Narrow Photospheric X-ray Lines in EXO 0748-676. *The Astrophysical Journal* 723, 1053-1056
30. Güver, T., **Özel, F.**, Cabrera-Lavers, A., Wroblewski, P. 2010. The Distance, Mass, and Radius of the Neutron Star in 4U 1608-52. *The Astrophysical Journal* 712, 964-973
31. Yunes, N., Psaltis, D., **Özel, F.**, Loeb, A. 2010. Constraining Parity Violation in Gravity with Measurements of Neutron-star Moments of Inertia. *Physical Review D* 81, 064020

32. Güver, T., Wroblewski, P., Camarota, L., **Özel, F.** 2010. The Mass and Radius of the Neutron Star in 4U 1820-30. *The Astrophysical Journal* 719, 1807-1812
33. Güver, T., **Özel, F.** 2009. The relation between optical extinction and hydrogen column density in the Galaxy. *Monthly Notices of the Royal Astronomical Society* 400, 2050-2053
34. Finlator, K., **Özel, F.**, Davé, R., Oppenheimer, B. D. 2009. The Late Reionization of Filaments. *Monthly Notices of the Royal Astronomical Society* 400, 1049-1061
35. **Özel, F.**, Psaltis, D. 2009. Reconstructing the Neutron-star Equation of State from Astrophysical Measurements. *Physical Review D* 80, 103003
36. Chan, C.-k., Liu, S., Fryer, C. L., Psaltis, D., **Özel, F.**, Rockefeller, G., Melia, F. 2009. MHD Simulations of Accretion onto Sgr A*: Quiescent Fluctuations, Outbursts, and Quasiperiodicity. *The Astrophysical Journal* 701, 521-534
37. Chan, C.-k., Psaltis, D., **Özel, F.** 2009. Spectral Methods for Time-Dependent Studies of Accretion Flows. III. Three-Dimensional, Self-Gravitating, Magnetohydrodynamic Disks. *The Astrophysical Journal* 700, 741-751
38. Finlator, K., **Özel, F.**, Davé, R. 2009. A new moment method for continuum radiative transfer in cosmological re-ionization. *Monthly Notices of the Royal Astronomical Society* 393, 1090-1106
39. **Özel, F.**, Güver, T., Psaltis, D. 2009. The Mass and Radius of the Neutron Star in EXO 1745-248. *The Astrophysical Journal* 693, 1775-1779
40. **Özel, F.** 2009. What Makes an Accretion-Powered Millisecond Pulsar?. *The Astrophysical Journal* 691, 1678-1683
41. Paerels, F., and 31 colleagues 2009. The Behavior Of Matter Under Extreme Conditions. *astro2010: The Astronomy and Astrophysics Decadal Survey 2010*, 230
42. Wroblewski, P., Güver, T., **Özel, F.** 2008. Column Densities Towards Three Bursting Low-Mass X-ray Binaries from High Resolution X-ray Spectroscopy. *ArXiv e-prints arXiv:0810.0007*
43. Limbach, C., Psaltis, D., **Özel, F.** 2008. The Redshift Evolution of the Tully-Fisher Relation as a Test of Modified Gravity. *ArXiv e-prints arXiv:0809.2790*
44. Galloway, D. K., **Özel, F.**, Psaltis, D. 2008. Biases for neutron star mass, radius and distance measurements from Eddington-limited X-ray bursts. *Monthly Notices of the Royal Astronomical Society* 387, 268-272
45. Güver, T., **Özel, F.**, Göğüş, E. 2008. Physical Properties of the AXP 4U 0142+61 from X-Ray Spectral Analysis. *The Astrophysical Journal* 675, 1499-1504
46. **Özel, F.**, Güver, T., Göğüş, E. 2008. The Magnetic Fields of Anomalous X-ray Pulsars. 40 Years of Pulsars: Millisecond Pulsars, Magnetars and More 983, 254-258
47. Ballantyne, D. R., **Özel, F.**, Psaltis, D. 2007. Constraining Radiatively Inefficient Accretion Flows with Sub-mm Polarization Observations. *Bulletin of the American Astronomical Society* 38, 1001

48. Güver, T., **Özel, F.**, Göğüş, E., Kouveliotou, C. 2007. The Magnetar Nature and the Outburst Mechanism of a Transient Anomalous X-Ray Pulsar. *The Astrophysical Journal* 667, L73-L76
49. Ballantyne, D. R., **Özel, F.**, Psaltis, D. 2007. Constraining Radiatively Inefficient Accretion Flows with Polarization. *The Astrophysical Journal* 663, L17-L20
50. **Özel, F.**, Güver, T. 2007. Hardness-Intensity Correlations in Magnetar Afterglows. *The Astrophysical Journal* 659, L141-L144
51. **Özel, F.** 2007. Astrophysics: Quark matter in compact stars? (Reply). *Nature* 445, 80
52. Güver, T., **Özel, F.**, Lyutikov, M. 2006. Inferring the Magnetic Fields of Magnetars from their X-ray Spectra. ArXiv Astrophysics e-prints arXiv:astro-ph/0611405
53. Chan, C.-k., Psaltis, D., **Özel, F.** 2006. Spectral Methods for Time-dependent Studies of Accretion Flows. II. Two-dimensional Hydrodynamic Disks with Self-Gravity. *The Astrophysical Journal* 645, 506-518
54. **Özel, F.** 2006. Soft equations of state for neutron-star matter ruled out by EXO 0748 - 676. *Nature* 441, 1115-1117
55. Chan, C.-k., Psaltis, D., **Özel, F.** 2005. Spectral Methods for Time-dependent Studies of Accretion Flows. I. Two-dimensional, Viscous, Hydrodynamic Disks. *The Astrophysical Journal* 628, 353-367
56. Wachter, S., Patel, S. K., Kouveliotou, C., Bouchet, P., **Özel, F.**, Tennant, A. F., Woods, P. M., Hurley, K., Becker, W., Slane, P. 2004. Precise Localization of the Soft Gamma Repeater SGR 1627-41 and the Anomalous X-Ray Pulsar AXP 1E1841-045 with Chandra. *The Astrophysical Journal* 615, 887-896
57. **Özel, F.** 2004. A Model for the Optical/IR Emission from Magnetars. ArXiv Astrophysics e-prints arXiv:astro-ph/0404144
58. Munro, M. P., **Özel, F.**, Chakrabarty, D. 2003. The Energy Dependence of Millisecond Oscillations in Thermonuclear X-Ray Bursts. *The Astrophysical Journal* 595, 1066-1076
59. **Özel, F.** 2003. The Effect of Vacuum Polarization and Proton Cyclotron Resonances on Photon Propagation in Strongly Magnetized Plasmas. *The Astrophysical Journal* 583, 402-409
60. **Özel, F.**, Psaltis, D. 2003. Spectral Lines from Rotating Neutron Stars. *The Astrophysical Journal* 582, L31-L34
61. Munro, M. P., **Özel, F.**, Chakrabarty, D. 2002. The Amplitude Evolution and Harmonic Content of Millisecond Oscillations in Thermonuclear X-Ray Bursts. *The Astrophysical Journal* 581, 550-561
62. **Özel, F.** 2002. The effects of strong magnetic and gravitational fields on emission properties of neutron stars. Ph.D. Thesis
63. **Özel, F.** 2002. Timing Properties of Magnetars. *The Astrophysical Journal* 575, 397-406

64. **Özel, F.** 2002. General relativistic effects on magnetar models of AXPs. Proceedings of The Ninth Marcel Grossmann Meeting 2321-2324
65. **Özel, F.** 2001. Surface Emission Properties of Strongly Magnetic Neutron Stars. The Astrophysical Journal 563, 276-288
66. **Özel, F.**, Psaltis, D., Kaspi, V. M. 2001. Constraints on Thermal Emission Models of Anomalous X-Ray Pulsars. The Astrophysical Journal 563, 255-266
67. **Özel, F.**, Di Matteo, T. 2001. X-Ray Images of Hot Accretion Flows. The Astrophysical Journal 548, 213-218
68. Psaltis, D., **Özel, F.**, DeDeo, S. 2000. Photon Propagation around Compact Objects and the Inferred Properties of Thermally Emitting Neutron Stars. The Astrophysical Journal 544, 390-396
69. **Özel, F.**, Psaltis, D., Narayan, R. 2000. Hybrid Thermal-Nonthermal Synchrotron Emission from Hot Accretion Flows. The Astrophysical Journal 541, 234-249
70. **Özel, F.** 1997
SUPERSYMMETRIC DECAYS OF THE HIGGS BOSON,
M.Sc. Thesis, Niels Bohr Institute
71. **Özel, F.** & Hansen, J. R. 1995
A NEW ALGORITHM FOR DETERMINING e^\pm ARRIVAL TIMES AT LEP,
ALEPH Internal Publication

• **Work under Review – Preprints**

72. Anglés-Alcázar, D., Davé, R., **Özel, F.**, Oppenheimer, B. D. 2013. Cosmological Zoom Simulations of $z = 2$ Galaxies: The Impact of Galactic Outflows. The Astrophysical Journal, submitted, ArXiv e-prints arXiv:1303.6959
73. Chan, C.-k., Psaltis, D., **Ozel, F.** 2013. GRay: a Massively Parallel GPU-Based Code for Ray Tracing in Relativistic Spacetimes. The Astrophysical Journal, submitted, ArXiv e-prints arXiv:1303.5057
74. Sadowski, A., Narayan, R., Sironi, L., **Ozel, F.** 2013. Location of the bow shock ahead of cloud G2 at the Galactic Center. MNRAS, submitted, ArXiv e-prints arXiv:1303.3893