

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, Nuclear and High Energy Astrophysics, Cosmology

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

Professor, University of Arizona 2015 – Present
Miller Professor, University of California Berkeley 2014
Fellow, Radcliffe Institute for Advanced Study, Harvard University 2012 – 2013
Associate Professor, University of Arizona 2010 – 2014
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 – 07/2008
Visiting Scientist, Los Alamos National Laboratory 07/2006 – 08/2006
Assistant Professor, University of Arizona 2005 – 2009
Hubble Fellow, University of Arizona 09/2003 – 12/2004
Member, 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

U.C. Berkeley Miller Visiting Professorship 2014
American Physical Society Maria Goeppert Mayer Award 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

Chandra Users Committee	2013-2016
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	
"Neutron Star Radii and All That Jazz" Workshop (Montreal, 2015);	
"15 Years of Chandra Science" Symposium (Cambridge, MA, 2014);	
"Nuclei in the Cosmos" Conference (Hungary, 2014);	
"Nuclei in the Cosmos" Conference (Australia, 2013);	
"X-ray Universe 2011" Symposium (Germany, 2011)	
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, 2013, 2015
Energy, Society, and the Environment	Spring 2009, 2011, 2012, Fall 2013, Spring 2016
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
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:

Lia Medeiros, Ph.D. candidate, Theoretical and Computational Astrophysics

Project Title: “Time Variability and Interferometric Images in GRMHD Models of Sgr A*”,
expected PhD defense Spring 2018

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

Thesis Title: “Observational Appearance of Rapidly Spinning Neutron Stars”, expected PhD
defense Spring 2016

Daniel Angles-Alcazar, Ph.D., May 2014, Theoretical and Computational Astrophysics

Thesis Title: “Modeling the Evolution of Galaxies and Massive Black Holes across Cosmic
Time”; currently a postdoctoral fellow at CIERA, Northwestern University

Phillip Jenks, M. S. 2013, Theoretical and Computational Astrophysics

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

Andras Gaspar, Ph.D., December 2011, Observational and Computational Astrophysics

Thesis Title: “Observations and Models of Infrared Debris Disk Signatures and their Evolu-
tion”; currently a postdoctoral associate at the University of Arizona

Elizabeth Todd, Ph.D., May 2011, Theoretical and Computational Astrophysics

Thesis Title: “Particle Astrophysics at the Galactic Center”; currently working in the defense
industry

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

Thesis Title: “Comparing Cosmological Hydrodynamic Simulations with Observations of High-
Redshift Galaxy Formation”; Hubble Postdoctoral Fellow UCSB; currently Fellow at Dark Cos-
mology Center, Copenhagen

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

Thesis Title: “X-ray Spectra of Magnetars: Theoretical Models and Applications”; Postdoc-
toral associate at the University of Arizona, currently Associate Professor at Istanbul University

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

Thesis Title: “Numerical Models of Magnetohydrodynamic Turbulent Flows”; ITC fellow at
Harvard Center for Astrophysics; Postdoctoral Fellow at Nordita; currently a postdoctoral asso-
ciate at the University of Arizona

Independent Studies and Master’s Projects:

Erika Wagoner (Ph.D. student, Physics); Project Title: “Pulse Profiles from Rapidly Spinning
Neutron Stars”

Larry Camarota (Ph.D. student, Physics); Project Title: “The Distance, Mass, and Radius of

the Neutron Star in 4U 1608-52” (published in the Astrophysical Journal)

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

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

Arif Erkoca (PhD student; Physics); Project Title: “Photon Propagation Around Rotating Neutron Stars”

Erica McEvoy (PhD student; Applied Mathematics); Project Title: “Numerical Models for Multidimensional Radiative Hydrodynamic Simulations”

Undergraduate Research and Thesis Advisees:

Austin Dougless, (Honors Program) Honors Project in Astronomy 208, Sustainable Energy, on “Solar Energy Initiatives”

Antonio Santos Villarreal, Independent Study, Senior Thesis (undergraduate, senior, Astronomy and Physics); Project Title: “On the Mass Distribution and Birth Masses of Neutron Stars” (published in the Astrophysical Journal), went on to graduate school in Physics at U. of Pittsburgh

David Schenck, Independent Study (undergraduate, senior, Astronomy and Physics); Project Title: “Magnetic Field Structure of Neutron Stars”, went on to graduate school in Astronomy at U. of Colorado

Chris Limbach, Independent Study (undergraduate, senior, Astronomy and Physics); Project Title: “The Redshift Evolution of the Tully-Fisher Relation as a Test of Modified Gravity” (published in the Astrophysical Journal), went on to graduate school in Aeronautics at Princeton

Patricia Wroblewski Independent Study, Senior Thesis, (undergraduate, senior, Astronomy and Physics); Project Title: “Hydrogen Column Density Measurements in High Resolution X-ray Spectra” (published in the Astrophysical Journal), went on to work at Raytheon

Kara Farnsworth (undergraduate, senior, Astronomy and Physics); Project Title: “Images of the Accretion Flow around the Black Hole at the Galactic Center”, went on to graduate school in Physics at U. of Washington

David Hernandez (independent study), Project Title: “Rapidly Rotating Neutron Star Spacetimes”, went on to graduate school in Astrophysics at MIT

Sui Ann Mao (independent study and senior honors thesis); Project Title: “Synchrotron Radiation from Magnetars and Applications to IR Emission from Anomalous X-ray Pulsars”, went on to graduate school in Astronomy at Harvard

INVITED PRESENTATIONS AND OUTREACH

Selected Invited Conference Talks and Colloquia since 2007 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

MIAPP Workshop on Neutron Stars: Munich, September 2015
The Neutron Star Radius and All That Jazz Conference, Montreal, July 2015
University of Zurich and ETH Joint Physics Colloquium, April 2015
Clemson University Physics Colloquium, March 2015
UCLA Astronomy Colloquium, February 2015
Rutgers Astrophysics Colloquium, October 2014
Fourth Joint Meeting of the Nuclear Physics Divs of the APS and PSJ, Hawaii, October 2014
HEAD Meeting, Chicago, August 2014
Lawrence Berkeley National Laboratory Nuclear Physics Seminar, June 2014
University of Washington Physics Colloquium, May 2014
University of California Santa Barbara Physics Colloquium, May 2014
University of California Berkeley Astronomy Colloquium, March 2014
American Physical Society Leadership Convocation Maria Goeppert Mayer Award Talk, College Park, MD, February 2014
The Ohio State University Astronomy Colloquium, February 2014
American Astronomical Society Meeting, Washington DC, January 2014
Supernova and Gamma-ray Bursts 2013 Conference, Kyoto, Japan, October 2013
Texas A&M Astrophysics Colloquium, October 2013
University of California Santa Cruz Astronomy Colloquium, October 2013
Harvard University Institute for Theory and Computation Colloquium, March 2013
University of Chicago Colloquium, January 2013
Harvard University Radcliffe Institute for Advanced Study, November 2012
IAU General Assembly, Beijing, China, August 2012
Max Planck Institut fur RadioAstronomie Colloquium, Bonn, Germany, 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, MA, May 2011
American Physical Society Meeting, Long Beach, CA, 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, Germany, July 2010 (2 talks)

UC San Diego Astronomy Colloquium, May 2010
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: \$4.0 Million at the University of Arizona since 2010

“X-ray Variability of Sgr A as a Probe of Plasma Physics in Accretion Flows”, PI
Chandra X-ray Observatory Cycle 17 (Theory), \$92,000, 2016-2017

“Neutron-star Interior Composition ExploreR (NICER)”, Keith Gendreau (NASA/GSFC, PI),
Özel, F. (Co-PI) and several other funded CoIs
NASA \$464,000 at U. of Arizona, 2015-2018

“A Deep Subarray Exposure of X7 in 47 Tuc: Towards Constraining Neutron Star Structure”,
CoPI (PI: Slavko Bogdanov)
Chandra X-ray Observatory Cycle 15, \$18,713 at U. of Arizona, 2014

“Multi-Scale Plasma Flows Around Black Holes”, Co-PI (PI: Jonathan McKinney)
NASA Theoretical and Computational Astrophysics Network
\$469,999 at U. of Arizona, 2013-2016

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

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

“The Apparent Surface Areas of Spinning Neutron Stars”, Co-PI (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-PI (PI: Romeel Dave)
National Science Foundation, \$354,184, 2009-2012

“Neutron Stars as Probes of Fundamental Physics”, PI
National Science Foundation, \$368,717, 2007-2011

LIST OF PUBLICATIONS

FERYAL ÖZEL

1. **Özel, F.**, Psaltis, D., Guver, T. 2015. Data Selection Criteria for Spectroscopic Measurements of Neutron Star Radii with X-ray Bursts. *The Astrophysical Journal*, submitted (ArXiv e-prints arXiv:1509.02924)
2. **Özel, F.**, Psaltis, D., Güver, T., Baym, G., Heinke, C., Guillot, S. 2015. The Dense Matter Equation of State from Neutron Star Radius and Mass Measurements. *The Astrophysical Journal*, submitted (ArXiv e-prints arXiv:1505.05155)
3. Foight, D., Güver, T., **Özel, F.**, Slane, P. 2015. Probing X-ray Absorption and Optical Extinction in the Interstellar Medium Using Chandra Observations of Supernova Remnants. *The Astrophysical Journal*, submitted (ArXiv e-prints arXiv:1504.07274)
4. Güver, T., **Özel, F.**, Marshall, H., Psaltis, D., Guainazzi, M., Diaz-Trigo, M. 2015. Systematic Uncertainties in the Spectroscopic Measurements of Neutron-Star Masses and Radii from Thermonuclear X-ray Bursts. III. Absolute Flux Calibration. *The Astrophysical Journal*, submitted (ArXiv e-prints arXiv:1501.05330)
5. Chan, C.-k., Psaltis, D., **Özel, F.**, Medeiros, L., Marrone, D., Sadowski, A., Narayan, R. 2015. Fast Variability and mm/IR flares in GRMHD Models of Sgr A* from Strong-Field Gravitational Lensing. *The Astrophysical Journal*, in press (ArXiv e-prints arXiv:1505.01500)
6. Bauböck, M., Psaltis, D., **Özel, F.** 2015. Effects of Spot Size on Neutron-Star Radius Measurements from Pulse Profiles. *The Astrophysical Journal*, in press (ArXiv e-prints arXiv:1505.00780)
7. **Özel, F.**, Psaltis, D. 2015. Statistics of Measuring Neutron Star Radii: The Bayesian vs. The Frequentist Approach. *The Astrophysical Journal*, 810, 135
8. Anglés-Alcázar, D., **Özel, F.**, Davé, R., Katz, N., Kollmeier, J. A., Oppenheimer, B. D. 2015. Torque-Limited Growth of Massive Black Holes in Galaxies Across Cosmic Time. *Astrophysical Journal*, 800, 127
9. Güver, T., Göğüş, E., **Özel, F.** 2015. Mapping the Surface of the Magnetar 1E 1048.1–5937 in Outburst and Quiescence Through Phase Resolved X-ray Spectroscopy. *Astrophysical Journal*, 801, 48
10. Bauböck, M., **Özel, F.**, Psaltis, D., Morsink, S. 2015. Rotational Corrections to Neutron Star Radius Measurements from Thermal Spectra. *The Astrophysical Journal*, 799, 22
11. Chan, C.-K., Psaltis, D., **Özel, F.**, Narayan, R., Sadowski, A. 2015. The Power of Imaging: Constraining the Plasma Properties of GRMHD Simulations using EHT Observations of Sgr A*. *The Astrophysical Journal*, 799, 1
12. Psaltis, D., **Özel, F.**, Chan, C.-K., Marrone, D. P. 2015. A General Relativistic Null Hypothesis Test with Event Horizon Telescope Observations of the black-hole shadow in Sgr A*. *The Astrophysical Journal*, in review, ArXiv e-prints arXiv:1411.1454
13. Psaltis, D., **Özel, F.** 2014. Pulse Profiles from Spinning Neutron Stars in the Hartle-Thorne Approximation. *The Astrophysical Journal* 792, 87

14. Feroci, M., and 343 colleagues 2014. The Large Observatory for x-ray timing. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series 9144, 91442T
15. Psaltis, D., **Özel, F.**, Chakrabarty, D. 2014. Prospects for Measuring Neutron-Star Masses and Radii with X-Ray Pulse Profile Modeling. *The Astrophysical Journal*, 787, 136
16. Torres, M. A. P., and 10 colleagues 2014. Identification of 23 accreting binaries in the Galactic Bulge Survey. *Monthly Notices of the Royal Astronomical Society* 440, 365-386
17. Anglés-Alcázar, D., Davé, R., **Özel, F.**, Oppenheimer, B. D. 2014. Cosmological Zoom Simulations of $z = 2$ Galaxies: The Impact of Galactic Outflows. *The Astrophysical Journal* 782, 84
18. Kouveliotou, C., and 18 colleagues 2014. Enduring Quests-Daring Visions (NASA Astrophysics in the Next Three Decades). ArXiv e-prints arXiv:1401.3741
19. Finlator, K., Muñoz, J. A., Oppenheimer, B. D., Oh, S. P., **Özel, F.**, Davé, R. 2013. The host haloes of O I absorbers in the reionization epoch. *Monthly Notices of the Royal Astronomical Society* 436, 1818-1835
20. Bauböck, M., Berti, E., Psaltis, D., **Özel, F.** 2013. Relations between Neutron-star Parameters in the Hartle-Thorne Approximation. *The Astrophysical Journal* 777, 68
21. Chan, C.-k., Psaltis, D., **Özel, F.** 2013. GRay: A Massively Parallel GPU-based Code for Ray Tracing in Relativistic Spacetimes. *The Astrophysical Journal* 777, 13
22. Sądowski, A., Narayan, R., Sironi, L., **Özel, F.** 2013. Location of the bow shock ahead of cloud G2 at the Galactic Centre. *Monthly Notices of the Royal Astronomical Society* 433, 2165-2171
23. Anglés-Alcázar, D., **Özel, F.**, Davé, R. 2013. Black Hole-Galaxy Correlations without Self-regulation. *The Astrophysical Journal* 770, 5
24. 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
25. 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
26. Bauböck, M., Psaltis, D., **Özel, F.** 2013. Narrow Atomic Features from Rapidly Spinning Neutron Stars. *The Astrophysical Journal*, 766, 87
27. **Özel, F.** 2013. Surface Emission from Neutron Stars and Implications for the Physics of their Interiors. *Reports on Progress in Physics* 76, 016901
28. 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
29. Feroci, M., and 202 colleagues 2012. The Large Observatory for X-ray Timing (LOFT). *Experimental Astronomy* 34, 415
30. 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

31. 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
32. **Özel, F.**, Psaltis, D., Narayan, R., Villarreal, A. S. 2012. On the Mass Distribution and Birth Masses of Neutron Stars. *Astrophysical Journal*, 757, 55
33. Güver, T., Gögüş, E., **Özel, F.** 2012. On the cooling trend of SGR 0526-66. *Monthly Notices of the Royal Astronomical Society* 424, 210
34. 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
35. Feroci, M., and 248 colleagues 2012. LOFT: the Large Observatory For X-ray Timing. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series 8443
36. Gáspár, A., Psaltis, D., Rieke, G. H., **Özel, F.** 2012. Modeling Collisional Cascades In Debris Disks: Steep Dust-Size Distributions. *Astrophysical Journal*, 754, 74
37. 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
38. 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
39. **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
40. 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
41. 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
42. Güver, T., Gögüş, 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
43. Finlator, K., Davé, R., **Özel, F.** 2011. Galactic Outflows and Photoionization Heating in the Reionization Epoch. *The Astrophysical Journal* 743, 169
44. Feroci, M., and 202 colleagues 2011. The Large Observatory for X-ray Timing (LOFT). *Experimental Astronomy* 39
45. Jonker, P. G., and 24 colleagues 2011. The Galactic Bulge Survey: Outline and X-ray Observations. *The Astrophysical Journal Supplement Series* 194, 18
46. 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

47. Göğüş, E., Güver, T., **Özel, F.**, Eichler, D., Kouveliotou, C. 2011. Long-term Radiative Behavior Of SGR 1900+14. *The Astrophysical Journal* 728, 160
48. **Özel, F.**, Psaltis, D., Narayan, R., McClintock, J. E. 2010. The Black Hole Mass Distribution in the Galaxy. *The Astrophysical Journal* 725, 1918-1927
49. **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
50. **Özel, F.**, Baym, G., Güver, T. 2010. Astrophysical Measurement of the Equation of State of Neutron Star Matter. *Physical Review D* 82, 101301
51. 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
52. 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
53. 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
54. 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
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