

Space Science Institute, 4750 Walnut Street, Suite 205, Boulder CO 80301 USA
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EDUCATION

2001 Ph.D., Astronomy, University of Texas at Austin
1998 M.A., Astronomy, University of Texas at Austin
1996 B.S., Astronomy & Physics, University of Arizona

EXPERIENCE

Space Science Institute
2015-present Senior Research Scientist, Center for Extrasolar Planetary Systems
2012-2015 Research Scientist, Center for Extrasolar Planetary Systems
National Center for Atmospheric Research
2009-2012 Scientist II, High Altitude Observatory & Technology Development Division
2006-2009 Scientist I, High Altitude Observatory & Scientific Computing Division
2004-2006 NSF Astronomy & Astrophysics Postdoctoral Fellow
Harvard-Smithsonian Center for Astrophysics
2002-2004 CfA Postdoctoral Fellow
Theoretical Astrophysics Center, Aarhus University, Denmark
2001-2002 TAC Postdoctoral Fellow

HONORS

2017 Science Enterprise Reporting Award, Society of Professional Journalists
2008-2010 Chair, Employment Committee, American Astronomical Society
2005-present Google grant, White Dwarf Research Corporation (whitedwarf.org)
1999-2001 Co-chair, Graduate Student Assembly, University of Texas at Austin
1997 NSF Graduate Research Fellowship, Honorable Mention
1996 Phi Beta Kappa Honor Society, University of Arizona
1996 Undergraduate Research Achievement Award, University of Arizona
1995-1996 Undergraduate Research Fellowship, Honors Center, University of Arizona
1994-1996 Barry M. Goldwater National Scholarship, University of Arizona
1991-1992 NASA Space Grant, University of Arizona

GRANTS

- 2016-2019 *PI, Developing a Stellar Model-fitting Pipeline for the TESS Mission*
NASA, Astrophysics Theory Program (\$557,334)
- 2015-2017 *Co-I, Stellar Rotation in the Kepler Fields*
NASA, Astrophysics Data Analysis Program (\$505,783)
- 2015-2016 *Co-I, HST/COS FUV Spectrophotometry of 16 Cyg A & B*
STScI, Hubble Space Telescope Cycle 22 (\$18,753)
- 2014-2017 *Co-I, Accessing the Full Potential of Asteroseismology with Kepler*
NASA, Astrophysics Theory Program (\$402,908)
- 2013-2015 *PI, Asteroseismic Properties of Exoplanet Host Stars*
NASA, Astrophysics Data Analysis Program (\$373,057)
- 2013 *Co-I, Revealing the Roots of Stellar Cycles*
NASA, Kepler Guest Observer Cycle 4 (\$53,715)
- 2012-2014 *Co-PI, Analysis of Solar-like Oscillations in Archival Kepler Data*
NASA, Astrophysics Data Analysis Program (\$415,352)
- 2011-2013 *Co-I, Redefining the Standard Stellar Model*
NASA, Astrophysics Theory Program (\$330,000)
- 2011-2012 *Co-I, Kepler Observations of Flares on Solar-Type Stars*
NASA, Kepler Guest Observer Program Cycle 3 (\$87,648)
- 2009-2011 *PI, Delivering Kepler science through Windows to the Universe*
NASA, Supplemental Outreach Award (\$30,000)
- 2009-2011 *PI, Development of a Stellar Model-fitting Pipeline for Asteroseismic Data*
NASA, Astrophysics Theory & Fundamental Physics (\$400,199)
- 2004-2006 *PI, Asteroseismology of Sun-like Stars*
NSF, Astronomy & Astrophysics Postdoctoral Fellowship (\$201,000)

INVITED TALKS

- 2017 *The Magnetic Mid-life Crisis of the Sun*
New Mexico State University, Astronomy Colloquium (Las Cruces, NM)
- 2017 *The Disappearance of Sun-like Activity Cycles*
SHINE Conference 2017 (Saint-Sauveur, Canada)
- 2017 *A Stellar Context for the Solar Activity Cycle*
Kiepenheuer Institute for Solar Physics (Freiburg, Germany)

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- 2017 *The Rotation and Magnetic Activity of Kepler Field Stars*
Leibniz Institute for Astrophysics Potsdam (Potsdam, Germany)
- 2017 *The Surprising Fate of our Magnetic Sun*
NIVEA Sun Press Event (Hamburg, Germany)
- 2016 *Stellar Evidence of a Solar Dynamo in Transition*
National Center for Atmospheric Research, HAO colloquium (Boulder, CO)
- 2016 *Breaking Magnetic Braking in Sun-like Stars*
Harvard-Smithsonian Center for Astrophysics (Cambridge, MA)
- 2016 *Stellar Evidence of a Transitional Sun*
Max Planck Institute, MPS Seminar (Göttingen, Germany)
- 2016 *Searching for planets around other stars*
Little Thompson Observatory, Public Star Night (Berthoud, CO)
- 2015 *Are we alone in the Universe?*
Boulder Theater, Ignite Boulder 28 (Boulder, CO)
- 2015 *Asteroseismology and the Solar-Stellar Connection*
Université Côte d'Azur, Observatoire de la Côte d'Azur (Nice, France)
- 2015 *Crowdfunding Astronomy with Google Sky*
Google Inc., Talks at Google program (Mountain View, CA)
- 2015 *Cracking the Diamond Star and Other Adventures*
Pacific Northwest Association for College Physics (Bellingham, WA)
- 2014 *Asteroseismic Properties of Kepler Targets from AMP*
Cool Stars 18, Touchstone Stars Splinter Session (Flagstaff, AZ)
- 2014 *The Past, Present, and Future of Exoplanet Discovery*
Ball Aerospace and Technologies Corporation (Boulder, CO)
- 2014 *Sizing up Kepler's Exoplanets with Asteroseismology*
U. Wisconsin Madison, Astronomy Colloquium (Madison, WI)
- 2014 *Probing Solar Physics with Kepler*
High Altitude Observatory, Boulder Solar Day (Boulder, CO)
- 2014 *Quivering Stars and the Quest for Habitable Planets*
UC Santa Cruz, Astronomy Colloquium (Santa Cruz, CA)
- 2013 *Probing Stellar Magnetic Activity with Kepler*
6th Kepler Asteroseismic Science Consortium workshop (Sydney, Australia)
- 2013 *Magnetic Activity Cycles and the Solar-Stellar Connection*
Saint Mary's University, Astronomy Colloquium (Halifax, Canada)

- 2013 *Asteroseismology: A Tool for Characterizing Exoplanet Host Stars*
NASA Exoplanet Exploration Program Analysis Group (Long Beach, CA)
- 2012 *Asteroseismology of Kepler Exoplanet Host Stars*
Ohio State University, Astronomy Colloquium (Columbus, OH)
- 2012 *Finding Sister Earth*
Colorado Café Scientifique (Denver, CO)
- 2012 *The SMARTS Southern HK project*
University of Birmingham (Birmingham, United Kingdom)
- 2011 *Asteroseismic Modeling of Solar-like Oscillations*
KITP Asteroseismology conference (Santa Barbara, CA)
- 2011 *The HAO-NOAO-SMARTS Southern HK project*
SORCE Science meeting (Sedona, AZ)
- 2011 *The Dynamic Duo: Asteroseismology and Interferometry*
Optical Interferometry Workshop (Socorro, NM)
- 2010 *Determining Asteroseismic Radii and other Stellar Properties*
Sagan Exoplanet Summer Workshop (Pasadena, CA)
- 2010 *Asteroseismic Modeling of Solar-type Stars*
3rd Kepler Asteroseismic Science Consortium workshop (Aarhus, Denmark)
- 2010 *First Results from the Kepler Mission*
New Mexico State University, Astronomy Colloquium (Las Cruces, NM)
- 2010 *The Effect of Input Physics on Asteroseismic Models*
HELAS IV meeting (Lanzarote, Spain)
- 2009 *Sounding the Stars with Genetic Algorithms*
Google Tech Talk (Mountain View, CA)
- 2008 *Asteroseismology with the Kepler Mission*
SOHO XXI / GONG 2008 meeting (Boulder, CO)
- 2008 *A TeraGrid Science Gateway for Kepler Asteroseismic Data*
2nd Kepler Asteroseismic Science Consortium workshop (Aarhus, Denmark)
- 2007 *An Asteroseismic Data-interpretation Pipeline for Kepler*
1st Kepler Asteroseismic Science Consortium workshop (Orsay, France)
- 2007 *Computational Seismology using Genetic Algorithms*
European Geosciences Union General Assembly (Vienna, Austria)
- 2006 *The Future of White Dwarf Asteroseismology*
Workshop on the Future of Asteroseismology (Vienna, Austria)

- 2005 *Computational Asteroseismology*
AAS/SPD Summer School on Helioseismology (Boulder, CO)
- 2005 *The Future of Stellar Seismology*
University of Hawaii, Institute for Astronomy (Honolulu, HI)
- 2004 *Lessons for Asteroseismology from White Dwarf Stars*
ARIES International Workshop on Asteroseismology (Nainital, India)
- 2003 *Computational Asteroseismology*
Yale University, Astronomy Colloquium (New Haven, CT)
- 2002 *Seismic Inference using Genetic Algorithms*
Asteroseismology Across the H-R Diagram (Porto, Portugal)

SERVICE

Advisory Committees

- 2015-present Steering Committee, TESS Working Group on Solar-like Oscillations
- 2010-2013 Career Network Advisory Committee, American Institute of Physics
- 2009-present Steering Committee, Stellar Observations Network Group
- 2009-2011 Telescope Allocation Committee, LCOGT Network
- 2009-2010 Demographics Study Group, Decadal Survey, National Academy of Sciences
- 2007-2011 Instrumentation Advisory Committee, High Altitude Observatory
- 2007-2015 Steering Committee, Kepler Asteroseismic Science Consortium
- 2006-2010 Employment Committee, American Astronomical Society

Education and Mentoring

- 2013 Ph.D. committee, University of Sydney, Australia (Timothy White)
- 2013 Ph.D. committee, St. Mary's University, Canada (Michael Gruberbauer)
- 2010-2013 Supervisor, postdoctoral fellows (Savita Mathur, Gülnur Doğan)
- 2009 Survival Skills for Scientists, Spring semester, University of Colorado
- 2008 Research co-mentor, SOARS undergraduate (Marques Cameron)
- 2008 Ph.D. committee, Aarhus University, Denmark (Christoffer Karoff)
- 2008 Ph.D. committee, University of La Laguna, Spain (Orlagh Creevey)

- 2007 Communications mentor, SOARS undergraduate (Alisha Fernandez)
- 2006-2008 Supervisor, Newkirk graduate fellow (Orlagh Creevey)
- 2005 Communications mentor, SOARS undergraduate (Anthony Didlake)
- 2005 Scientific Survival Skills, Fall semester, University of Colorado

Community Service

- 2017 Public Lecture, “Get Ready for the Total Solar Eclipse!”
Newport Performing Arts Center, Newport OR
- 2015-present Science Writer/Editor, Lab Notes series, Boulder Weekly newspaper
- 2010-2011 Conference Organizer, “From unprecedented data to revolutionary science”
4th Kepler Asteroseismic Science Consortium workshop, Boulder CO
- 2008-present Co-developer, Asteroseismic Modeling Portal (amp.phys.au.dk)
TeraGrid/XSEDE Science Gateway
- 2008-2009 Session Organizer, “Portable Jobs: Soft Money and Research Institutes”
213th American Astronomical Society meeting, Long Beach CA
- 2007-2013 Program manager, “Activity cycles of southern asteroseismic targets”
NOAO long-term observing program (solar-stellar.org)
- 2006-2007 Session Organizer, “The Sound of Physics: Advances in coronal, helio-,
astero-, and terrestrial seismology”, XXIV IUGG meeting, Italy
- 2001-present Referee: A&A, ApJ, MNRAS, Nature, PASP, Sol. Phys.

Ph.D. Thesis

Title: “Computational Asteroseismology”

Date: August 2001

Institution: University of Texas at Austin

Advisor: R. Edward Nather

First-Author Refereed Journal Articles

1. [Metcalf, T. S.](#), Mathieu, R. D., Latham, D. W., & Torres, G., 1996: The Low-Mass Double-lined Eclipsing Binary CM Draconis: A Test of the Primordial Helium Abundance and the Mass-Radius Relation near the Bottom of the Main Sequence. *Astrophys. J.*, **456**, 356.
2. [Metcalf, T. S.](#), 1999: Genetic-Algorithm-based Light-Curve Optimization Applied to Observations of the W Ursae Majoris Star BH Cassiopeiae. *Astron. J.*, **117**, 2503.
3. [Metcalf, T. S.](#), & Nather, R. E., 1999: Natural Selection in a Linux Universe. *Linux J.*, **65**, 58.
4. [Metcalf, T. S.](#), Nather, R. E., & Winget, D. E., 2000: Genetic-Algorithm-based Asteroseismological Analysis of the DBV White Dwarf GD 358. *Astrophys. J.*, **545**, 974.
5. [Metcalf, T. S.](#), Winget, D. E., & Charbonneau, P., 2001: Preliminary Constraints on $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ from White Dwarf Seismology. *Astrophys. J.*, **557**, 1021.
6. [Metcalf, T. S.](#), 2001: Computational Asteroseismology. *Pub. Astron. Soc. Pacific*, **113**, 1308.
7. [Metcalf, T. S.](#), Salaris, M., & Winget, D. E., 2002: Measuring $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ from White Dwarf Asteroseismology. *Astrophys. J.*, **573**, 803.
8. [Metcalf, T. S.](#), & Charbonneau, P., 2003: Stellar structure modeling using a parallel genetic algorithm for objective global optimization. *J. Comput. Phys.*, **185**, 176.
9. [Metcalf, T. S.](#), 2003: White Dwarf Asteroseismology and the $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Rate. *Astrophys. J.*, **587**, L43.
10. [Metcalf, T. S.](#), Montgomery, M. H., & Kawaler, S. D., 2003: Probing the core and envelope structure of DBV white dwarfs. *Mon. Not. R. Astron. Soc.*, **344**, L88.
11. [Metcalf, T. S.](#), Montgomery, M. H., & Kanaan, A., 2004: Testing White Dwarf Crystallization Theory with Asteroseismology of the Massive Pulsating DA Star BPM 37093. *Astrophys. J.*, **605**, L133.

12. Metcalfe, T. S., Nather, R. E., Watson, T. K., Kim, S.-L., Park, B.-G., & Handler, G., 2005: An asteroseismic test of diffusion theory in white dwarfs. *Astron. Astrophys.*, **435**, 649.
13. Metcalfe, T. S., 2005: The Rise and Citation Impact of astro-ph in Major Journals. *Bull. Am. Astron. Soc.*, **37**, 555.
14. Metcalfe, T. S., 2005: A deeper understanding of white dwarf interiors. *Mon. Not. R. Astron. Soc.*, **363**, L86.
15. Metcalfe, T. S., 2006: The Citation Impact of Digital Preprint Archives for Solar Physics Papers. *Sol. Phys.*, **239**, 549.
16. Metcalfe, T. S., Dziembowski, W. A., Judge, P. G., & Snow, M., 2007: Asteroseismic signatures of stellar magnetic activity cycles. *Mon. Not. R. Astron. Soc.*, **379**, L16.
17. Metcalfe, T. S., 2008: The Production Rate and Employment of Ph.D. Astronomers. *Pub. Astron. Soc. Pacific*, **120**, 229.
18. Metcalfe, T. S., Creevey, O. L., & Christensen-Dalsgaard, J., 2009: A Stellar Model-fitting Pipeline for Asteroseismic Data from the Kepler Mission. *Astrophys. J.*, **699**, 373.
19. Metcalfe, T. S., Monteiro, M. J. P. F. G., Thompson, M. J., Molenda-Żakowicz, J., Appourchaux, T., Chaplin, W. J., Doğan, G., Eggenberger, P., Bedding, T. R., Bruntt, H., Creevey, O. L., Quirion, P.-O., Stello, D., Bonanno, A., Aguirre, V. Silva, Basu, S., Esch, L., Gai, N., Mauro, M. P. Di Mauro, Kosovichev, A. G., Kitiashvili, I. N., Suárez, J. C., Moya, A., Piau, L., García, R. A., Marques, J. P., Frasca, A., Biazzo, K., Sousa, S. G., Dreizler, S., Bazot, M., Karoff, C., Frandsen, S., Wilson, P. A., Brown, T. M., Christensen-Dalsgaard, J., Gilliland, R. L., Kjeldsen, H., Campante, T. L., Fletcher, S. T., Handberg, R., Régulo, C., Salabert, D., Schou, J., Verner, G. A., Ballot, J., Broomhall, A.-M., Elsworth, Y., Hekker, S., Huber, D., Mathur, S., New, R., Roxburgh, I. W., Sato, K. H., White, T. R., Borucki, W. J., Koch, D. G., & Jenkins, J. M., 2010: A precise asteroseismic age and radius for the evolved Sun-like star KIC 11026764. *Astrophys. J.*, **723**, 1583.
20. Metcalfe, T. S., Basu, S., Henry, T. J., Soderblom, D. R., Judge, P. G., Knölker, M., Mathur, S., & Rempel, M. 2010: Discovery of a 1.6 Year Magnetic Activity Cycle in the Exoplanet Host Star iota Horologii. *Astrophys. J.*, **723**, L213.
21. Metcalfe, T. S., 2011: The inner lives of red giants. *Nature*, **471**, 580.
22. Metcalfe, T. S., Chaplin, W. J., Appourchaux, T., Garcia, R. A., Basu, S., Brandao, I., Creevey, O. L., Deheuvels, S., Dogan, G., Eggenberger, P., Karoff, C., Miglio, A., Stello, D., Yildiz, M., Celik, Z., Antia, H. M., Benomar, O., Howe, R., Regulo, C., Salabert, D., Stahn, T., Bedding, T. R., Davies, G. R., Elsworth, Y., Gizon, L., Hekker, S., Mathur, S., Mosser, B., Bryson, S. T., Still, M. D., Christensen-Dalsgaard, J., Gilliland, R. L., Kawaler, S. D., Kjeldsen, H., Ibrahim, K. A., Klaus, T. C., & Li, J.,

- 2012: Asteroseismology of the solar analogs 16 Cyg A and B from Kepler observations. *Astrophys. J.*, **748**, L10.
23. [Metcalfe, T. S.](#), Buccino, A. P., Brown, B. P., Mathur, S., Soderblom, D. R., Henry, T. J., Mauas, P. J. D., Petrucci, R., Hall, J. C., & Basu, S., 2013: Magnetic Activity Cycles in the Exoplanet Host Star epsilon Eridani. *Astrophys. J.*, **763**, L26.
24. [Metcalfe, T. S.](#), Creevey, O. L., Doğan, G., Mathur, S., Xu, H., Bedding, T. R., Chaplin, W. J., Christensen-Dalsgaard, J., Karoff, C., Trampedach, R., Benomar, O., Brown, B. P., Buzasi, D. L., Campante, T. L., Çelik, Z., Cunha, M. S., Davies, G. R., Deheuvels, S., Derekas, A., Di Mauro, M. P., García, R. A., Guzik, J. A., Howe, R., MacGregor, K. B., Mazumdar, A., Montalbán, J., Monteiro, M. J. P. F. G., Salabert, D., Serenelli, A., Stello, D., Stešlicki, M., Suran, M. D., Yıldız, M., Aksoy, C., Elsworth, Y., Gruberbauer, M., Guenther, D. B., Lebreton, Y., Molaverdikhani, K., Pricopi, D., Simoniello, R., & White, T. R., 2014: Properties of 42 Solar-type Kepler Targets from the Asteroseismic Modeling Portal. *Astrophys. J. Supp.*, **214**, 27.
25. [Metcalfe, T.](#) 2015: Harnessing the crowd. *Phys. World*, **28**, 17.
26. [Metcalfe, T. S.](#), Creevey, O. L., & Davies, G. R. 2015: Asteroseismic modeling of 16 Cyg A & B using the complete Kepler data set. *Astrophys. J.*, **811**, L37.
27. [Metcalfe, T. S.](#), 2015: Crowdfunding Astronomy Research with Google Sky. *J. Astron. & Earth Sci. Educ.*, **2**, 109.
28. [Metcalfe, T. S.](#), Egeland, R., & van Saders, J., 2016: Stellar Evidence that the Solar Dynamo may be in Transition. *Astrophys. J.*, **826**, L2.
29. [Metcalfe, T. S.](#), & van Saders, J. 2017: Magnetic Evolution and the Disappearance of Sun-like Activity Cycles. *Sol. Phys.*, **292**, 126.

Collaborative Refereed Journal Articles

1. Jedicke, R., & [Metcalfe, T. S.](#), 1998: The Orbital and Absolute Magnitude Distributions of Main Belt Asteroids. *Icarus*, **131**, 245.
2. Davidson, K., Gull, T. R., Humphreys, R. M., Ishibashi, K., Whitelock, P., Berdnikov, L., McGregor, P. J., [Metcalfe, T. S.](#), Polomski, E., & Hamuy, M., 1999: An Unusual Brightening Of Eta Carinae. *Astron. J.*, **118**, 1777.
3. Kepler, S. O., Mukadam, A., Winget, D. E., Nather, R. E., [Metcalfe, T. S.](#), Reed, M. D., Kawaler, S. D., & Bradley, P. A., 2000: Evolutionary Timescale of the Pulsating White Dwarf G117-B15A: The Most Stable Optical Clock Known. *Astrophys. J.*, **534**, L185.
4. Montgomery, M. H., [Metcalfe, T. S.](#), & Winget, D. E., 2001: The Effect of ^3He Diffusion on the Pulsational Spectra of DBV Models. *Astrophys. J.*, **548**, L53.

5. Kurtz, D. W., Kawaler, S. D., Riddle, R. L., Reed, M. D., Cunha, M. S., Wood, M., Silvestri, N., Watson, T. K., Dolez, N., Moskalik, P., Zola, S., Pallier, E., Guzik, J. A., [Metcalfe, T. S.](#), Mukadam, A. S., Nather, R. E., Winget, D. E., Sullivan, D. J., Sullivan, T., Sekiguchi, K., Jiang, X., Shobbrook, R., Ashoka, B. N., Seetha, S., Joshi, S., O'Donoghue, D., Handler, G., Mueller, M., Gonzalez Perez, J. M., Solheim, J.-E., Johannessen, F., Ulla, A., Kepler, S. O., Kanaan, A., da Costa, A., Fraga, L., Giovannini, O., & Matthews, J. M., 2002: Discovery of the 'missing' mode in HR1217 by the Whole Earth Telescope. *Mon. Not. R. Astron. Soc.*, **330**, L57.
6. Bottke, W. F., Morbidelli, A., Jedicke, R., Petit, J.-M., Levison, H. F., Michel, P., & [Metcalfe, T. S.](#), 2002: Debaised Orbital and Absolute Magnitude Distribution of the Near-Earth Objects. *Icarus*, **156**, 399.
7. Handler, G., [Metcalfe, T. S.](#), & Wood, M. A., 2002: The asteroseismological potential of the pulsating DB white dwarf stars CBS 114 and PG 1456+103. *Mon. Not. R. Astron. Soc.*, **335**, 698.
8. Kepler, S. O., Nather, R. E., Winget, D. E., Nitta, A., Kleinman, S. J., [Metcalfe, T.](#), Sekiguchi, K., Jiang, X., Sullivan, D., Sullivan, T., Janulis, R., Meistas, E., Kalytis, R., Krzesinski, J., Ogoza, W., Zola, S., O'Donoghue, D., Romero-Colmenero, E., Martinez, P., Dreizler, S., Deetjen, J., Nagel, T., Schuh, S. L., Vauclair, G., Ning, F. J., Chevreton, M., Solheim, J.-E., Gonzalez Perez, J. M., Johannessen, F., Kanaan, A., Costa, J. E., Murillo Costa, A. F., Wood, M. A., Silvestri, N., Ahrens, T. J., Jones, A. K., Collins, A. E., Boyer, M., Shaw, J. S., Mukadam, A., Klumpe, E. W., Larrison, J., Kawaler, S., Riddle, R., Ulla, A., & Bradley, P., 2003: The everchanging pulsating white dwarf GD358. *Astron. Astrophys.*, **401**, 639.
9. Handler, G., O'Donoghue, D., Müller, M., Solheim, J.-E., Gonzalez-Perez, J. M., Johannessen, F., Paparo, M., Szeidl, B., Viraghalmy, G., Silvotti, R., Vauclair, G., Dolez, N., Pallier, E., Chevreton, M., Kurtz, D. W., Bromage, G. E., Cunha, M. S., Østensen, R., Fraga, L., Kanaan, A., Amorim, A., Giovannini, O., Kepler, S. O., da Costa, A. F. M., Anderson, R. F., Wood, M. A., Silvestri, N., Klumpe, E. W., Carlton, R. F., Miller, R. H., McFarland, J. P., Grauer, A. D., Kawaler, S. D., Riddle, R. L., Reed, M. D., Nather, R. E., Winget, D. E., Hill, J. A., [Metcalfe, T. S.](#), Mukadam, A. S., Kilic, M., Watson, T. K., Kleinman, S. J., Nitta, A., Guzik, J. A., Bradley, P. A., Sekiguchi, K., Sullivan, D. J., Sullivan, T., Shobbrook, R. R., Jiang, X., Birch, P. V., Ashoka, B. N., Seetha, S., Girish, V., Joshi, S., Dorokhova, T. N., Dorokhov, N. I., Akan, M. C., Meistas, E. G., Janulis, R., Kalytis, R., Ališauskas, D., Anguma, S. K., Kalebwe, P. C., Moskalik, P., Ogloza, W., Stachowski, G., Pajdosz, G., & Zola, S., 2003: Amplitude and frequency variability of the pulsating DB white dwarf stars KUV 05134+2605 and PG 1654+160 observed with the Whole Earth Telescope. *Mon. Not. R. Astron. Soc.*, **340**, 1031.
10. Mukadam, A. S., Kepler, S. O., Winget, D. E., Nather, R. E., Kilic, M., Mullally, F., von Hippel, T., Kleinman, S. J., Nitta, A., Guzik, J. A., Bradley, P. A., Matthews, J., Sekiguchi, K., Sullivan, D. J., Sullivan, T., Shobbrook, R. R., Birch, P., Jiang, X. J.,

- Xu, D. W., Joshi, S., Ashoka, B. N., Ibbetson, P., Leibowitz, E., Ofek, E. O., Meiřtas, E. G., Janulis, R., Aliřauskas, D., Kalytis, R., Handler, G., Kilkenny, D., O'Donoghue, D., Kurtz, D. W., Muller, M., Moskalik, P., Ogłozza, W., Zoła, S., Krzesiński, J., Johannessen, F., Gonzalez-Perez, J. M., Solheim, J.-E., Silvotti, R., Bernabei, S., Vauclair, G., Dolez, N., Fu, J. N., Chevreton, M., Manteiga, M., Suáirez, O., Ulla, A., Cunha, M. S., [Metcalfe, T. S.](#), Kanaan, A., Fraga, L., Costa, A. F. M., Giovannini, O., Fontaine, G., Bergeron, P., O'Brien, M. S., Sanwal, D., Wood, M. A., Ahrens, T. J., Silvestri, N., Klumpe, E. W., Kawaler, S. D., Riddle, R., Reed, M. D., & Watson, T. K., 2003: Constraining the Evolution of ZZ Ceti. *Astrophys. J.*, **594**, 961.
11. Montgomery, M. H., [Metcalfe, T. S.](#), & Winget, D. E., 2003: The core/envelope symmetry in pulsating stars. *Mon. Not. R. Astron. Soc.*, **344**, 657.
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