

Center for Solar-Stellar Connections WDRC, 9020 Brumm Trail, Golden CO 80403 USA
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EDUCATION

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

EXPERIENCE

White Dwarf Research Corporation
2021-present Executive Director & Senior Research Scientist
2015-2021 Senior Research Scientist, Center for Solar-Stellar Connections

Space Science Institute
2015-2021 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

2020 AAS Legacy Fellow, American Astronomical Society
2017 Science Enterprise Reporting Award, Society of Professional Journalists
2005-present Google grant, White Dwarf Research Corporation (adoptastar.org)
1999-2001 Co-chair, Graduate Student Assembly, University of Texas at Austin
1997 NSF Graduate Research Fellowship, Honorable Mention
1995-1996 Undergraduate Research Fellowship, Honors Center, University of Arizona
1994-1996 Goldwater National Scholarship, University of Arizona
1991-1992 NASA Space Grant, University of Arizona

GRANTS

- 2022-2025 *PI, The Evolution of Magnetic Complexity in Old Sun-like Stars*
NSF, Astronomy & Astrophysics Grants (\$189,753)
- 2022-2024 *PI, Asteroseismic Calibration of the Empirical Activity-age Relation*
NASA, Astrophysics Data Analysis Program (\$297,014)
- 2020-2021 *PI, Asteroseismic Calibration of an Empirical Activity-age Relation*
NASA, Astrophysics Data Analysis Program (\$187,523)
- 2020 *PI, Digging in the Magnetic Graveyard for Old Cold Coronae*
Smithsonian, Chandra X-ray Observatory (\$50,758)
- 2018-2021 *PI, Magnetic Evolution of Sun-like Activity Cycles*
NSF, Astronomy & Astrophysics Grants (\$225,545)
- 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)
- 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)

RECENT TALKS

- 2024 *The Evolution of Stellar Magnetism and Exoplanet Habitability*
Yale University, Astronomy Colloquium (New Haven, CT)
- 2024 *Observations of Weakened Magnetic Braking in Sun-like Stars*
Naval Research Laboratory, Space Science seminar (Washington, DC)
- 2024 *Weakened Magnetic Braking in the Exoplanet Host Star 51 Peg*
American Astronomical Society meeting (New Orleans, LA)
- 2023 *The Origin of Weakened Magnetic Braking in the Sun and Stars*
National Solar Observatory, NSO seminar (Boulder, CO)
- 2023 *Constraints on Dynamo Evolution from Spectropolarimetry*
High Country Conference Center, Sun-Climate Symposium (Flagstaff, AZ)
- 2023 *Probing Magnetic Stellar Evolution with Asteroseismology*
University of Hawaii, TASC7/KASC14 conference (Honolulu, HI)
- 2022 *Magnetic Stellar Evolution and Planetary Habitability*
University of Hawaii, Astrophysics Colloquium (Honolulu, HI)
- 2022 *Constraints on the Magnetic Morphology of Old Sun-like Stars*
University of Cambridge, Isaac Newton Institute (Cambridge, UK)
- 2022 *The Origin of Weakened Magnetic Braking in Old Solar Analogs*
Pierre Baudis Convention Centre, Cool Stars 21 (Toulouse, France)
- 2022 *Stellar Constraints on Dynamo Evolution*
International Space Science Institute, workshop (Bern, Switzerland)
- 2021 *Combining TESS asteroseismology and LBT spectropolarimetry of ρ CrB*
Massachusetts Institute of Technology, TESS Conference II (online @ MIT)
- 2021 *Is the Sun Less Active than other Solar-type Stars?*
AAS Solar Physics Division meeting, Coffee with COFFIES (online)
- 2021 *Solar Activity and Dynamics in a Stellar Context*
Stanford University, COFFIES seminar (online @ Stanford)
- 2021 *A New Understanding of Magnetic Stellar Evolution*
Harvard University, Cool Stars 20.5 (online @ Harvard)
- 2020 *Why is the Sun less active than other solar-like stars?*
National Solar Observatory, NSO zoom seminar (online @ NSO)
- 2020 *The Legacy of Astrophysics at High Altitude Observatory/NCAR*
National Center for Atmospheric Research, MK Symposium (Boulder, CO)

- 2020 *The Evolution of Stellar Dynamos and Planetary Habitability*
University of Colorado, Astrophysics Colloquium (Boulder, CO)
- 2020 *Spectropolarimetry of a Magnetic Topology Shift in Old Solar-type Stars*
American Astronomical Society meeting (Honolulu, HI)
- 2019 *Limitations of Gyrochronology for Old Field Stars*
Astrophysics Institute of Potsdam, Thinkshop 16 (Potsdam, Germany)
- 2019 *Deciphering Rotation and Activity Variations in 94 Aqr with TESS*
Massachusetts Institute of Technology, TESS Conference (Cambridge, MA)
- 2019 *A Midlife Crisis for Stellar Dynamos*
Aalto University, Axel Brandenburg Symposium (Helsinki, Finland)
- 2019 *Magnetic Activity Cycles in Asteroseismic Solar Analogs*
American Astronomical Society, LCOGT splinter session (Seattle, WA)
- 2018 *The Potential for Observing Stellar Activity Cycles with SONG*
Stellar Observations Network Group science workshop (Tenerife, Spain)
- 2018 *A New Spin on Age-Rotation-Activity Relations with Kepler and TESS*
Aarhus University, TASC4/KASC11 conference (Aarhus, Denmark)

BROADER IMPACTS

Education and Mentoring

- 2018-2019 Research co-mentor, LASP REU (Sabrina Poulsen, Adam Goga)
- 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)
- 2006-2008 Supervisor, Newkirk graduate fellow (Orlagh Creevey)
- 2005-2007 Communications mentor, SOARS program (A. Didlake, A. Fernandez)
- 2005 Scientific Survival Skills, Fall semester, University of Colorado

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
- 2007-2015 Steering Committee, Kepler Asteroseismic Science Consortium
- 2006-2010 Employment Committee, American Astronomical Society (Chair: 2008-10)

Community Service

- 2021-2022 Conference Organizer/Sponsor, “Fifty years of the Skumanich relations”
White Dwarf Research Corporation, Embassy Suites, Boulder CO
- 2017-2023 Program manager, “Activity cycles in asteroseismic solar analogs”
NOAO long-term observing program and LCO global key project
- 2015-2021 Science Columnist, Lab Notes (monthly 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.wdrc.org)
TeraGrid/XSEDE Science Gateway
- 2008-present Crowdfunder, Kepler/TESS Asteroseismic Science Consortium
Raised \$600,000+ to support international research (adoptastar.org)
- 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
- 2005-2010 Organizer, Solar-Stellar Coffee (weekly journal club)
- 2001-present Referee: A&A, AJ, 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. Letters*, **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. Letters*, **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. Letters*, **605**, L133.
12. [Metcalf, 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. Letters*, **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. Letters*, **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. Letters*, **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. Letters*, **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. Letters*, **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. Letters*, **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. Letters*, **826**, L2.
29. [Metcalfe, T. S.](#), & van Saders, J. 2017: Magnetic Evolution and the Disappearance of Sun-like Activity Cycles. *Sol. Phys.*, **292**, 126.
30. [Metcalfe, T. S.](#) 2018: The Sun's magnetic midlife crisis. *Phys. Today*, **71**(6), 70.
31. [Metcalfe, T. S.](#), & Egeland, R., 2019: Understanding the Limitations of Gyrochronology for Old Field Stars. *Astrophys. J.*, **871**, 39.
32. [Metcalfe, T. S.](#), Kochukhov, O., Ilyin, I. V., Strassmeier, K. G., Godoy-Rivera, D., & Pinsonneault, M. H., 2019: LBT/PEPSI Spectropolarimetry of a Magnetic Morphology Shift in Old Solar-type Stars. *Astrophys. J. Letters*, **887**, L38.
33. [Metcalfe, T. S.](#), van Saders, J. L., Basu, S., Buzasi, D., Chaplin, W. J., Egeland, R., Garcia, R. A., Gaulme, P., Huber, D., Reinhold, T., Schunker, H., Stassun, K. G., Appourchaux, T., Ball, W. H., Bedding, T. R., Deheuvels, S., Gonzalez-Cuesta, L., Handberg, R., Jimenez, A., Kjeldsen, H., Li, T., Lund, M. N., Mathur, S., Mosser, B., Nielsen, M. B., Noll, A., Celik Orhan, Z., Ortel, S., Santos, A. R. G., Yildiz, M., Baliunas, S., & Soon, W., 2020: The Evolution of Rotation and Magnetic Activity in 94 Aqr Aa from Asteroseismology with TESS. *Astrophys. J.*, **900**, 154.
34. [Metcalfe, T. S.](#), van Saders, J. L., Basu, S., Buzasi, D., Drake, J. J., Egeland, R., Huber, D., Saar, S. H., Stassun, K. G., Ball, W. H., Campante, T. L., Finley, A. J., Kochukhov, O., Mathur, S., Reinhold, T., See, V., Baliunas, S., & Soon, W., 2021: Magnetic and

- Rotational Evolution of ρ CrB from Asteroseismology with TESS. *Astrophys. J.*, **921**, 122.
35. [Metcalfe, T. S.](#), Finley, A. J., Kochukhov, O., See, V., Ayres, T. R., Stassun, K. G., van Saders, J. L., Clark, C. A., Godoy-Rivera, D., Ilyin, I. V., Pinsonneault, M. H., Strassmeier, K. G., & Petit, P., 2022: The Origin of Weakened Magnetic Braking in Old Solar Analogs. *Astrophys. J. Letters*, **933**, L17.
 36. [Metcalfe, T. S.](#), Strassmeier, K. G., Ilyin, I. V., van Saders, J. L., Ayres, T. R., Finley, A. J., Kochukhov, O., Petit, P., See, V., Stassun, K. G., Jeffers, S. V., Marsden, S. C., Morin, J., & Vidotto, A. A., 2023: Constraints on Magnetic Braking from the G8 Dwarf Stars 61 UMa and τ Cet. *Astrophys. J. Letters*, **948**, L6.
 37. [Metcalfe, T. S.](#), Buzasi, D., Huber, D., Pinsonneault, M. H., van Saders, J. L., Ayres, T. R., Basu, S., Drake, J. J., Egeland, R., Kochukhov, O., Petit, P., Saar, S. H., See, V., Stassun, K. G., Li, Y., Bedding, T. R., Breton, S. N., Finley, A. J., Garcia, R. A., Kjeldsen, H., Nielsen, M. B., Ong, J. M. J., Rorsted, J. L., Stokholm, A., Winther, M. L., Clark, C. A., Godoy-Rivera, D., Ilyin, I. V., Strassmeier, K. G., Jeffers, S. V., Marsden, S. C., Vidotto, A. A., Baliunas, S., & Soon, W., 2023: Asteroseismology and Spectropolarimetry of the Exoplanet Host Star λ Serpentis. *Astron. J.*, **166**, 167.
 38. [Metcalfe, T. S.](#), Strassmeier, K. G., Ilyin, I. V., Buzasi, D., Kochukhov, O., Ayres, T. R., Basu, S., Chontos, A., Finley, A. J., See, V., Stassun, K. G., van Saders, J. L., Sepulveda, A. G., & Ricker, G., 2024: Weakened Magnetic Braking in the Exoplanet Host Star 51 Peg. *Astrophys. J. Letters*, **960**, L6.

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. Letters*, **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. Letters*, **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. Letters*, **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.
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