Francis Xavier Timmes 01Jan2026
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Research Interests

Stellar Astrophysics, especially the Modules for Experiments for Stellar Astrophysics (MESA) project.
Explosions - emphasis on their progenitor evolution, nucleosynthesis, and multi-messenger signals.
Seismology, especially of observed variable white dwarfs.
Thermodynamics, Opacities, and Nuclear Physics - stars are gravitationally confined nuclear reactors.
Chemical evolution, growth of every isotope, atom, and molecule at every point in spacetime.
Astrobiology, production and delivery of bioessential elements to habitable systems.
Gamma-ray astronomy, particularly energetic photons from the decay of radionuclides.
Neutrino astronomy, across all masses metallicities, and especially from pre-supernova massive stars.
Community-driven software instruments - a primary modality for advancing 21st Century astronomy.
Astronomy Journals, especially evolution of the most cited articles and journals.

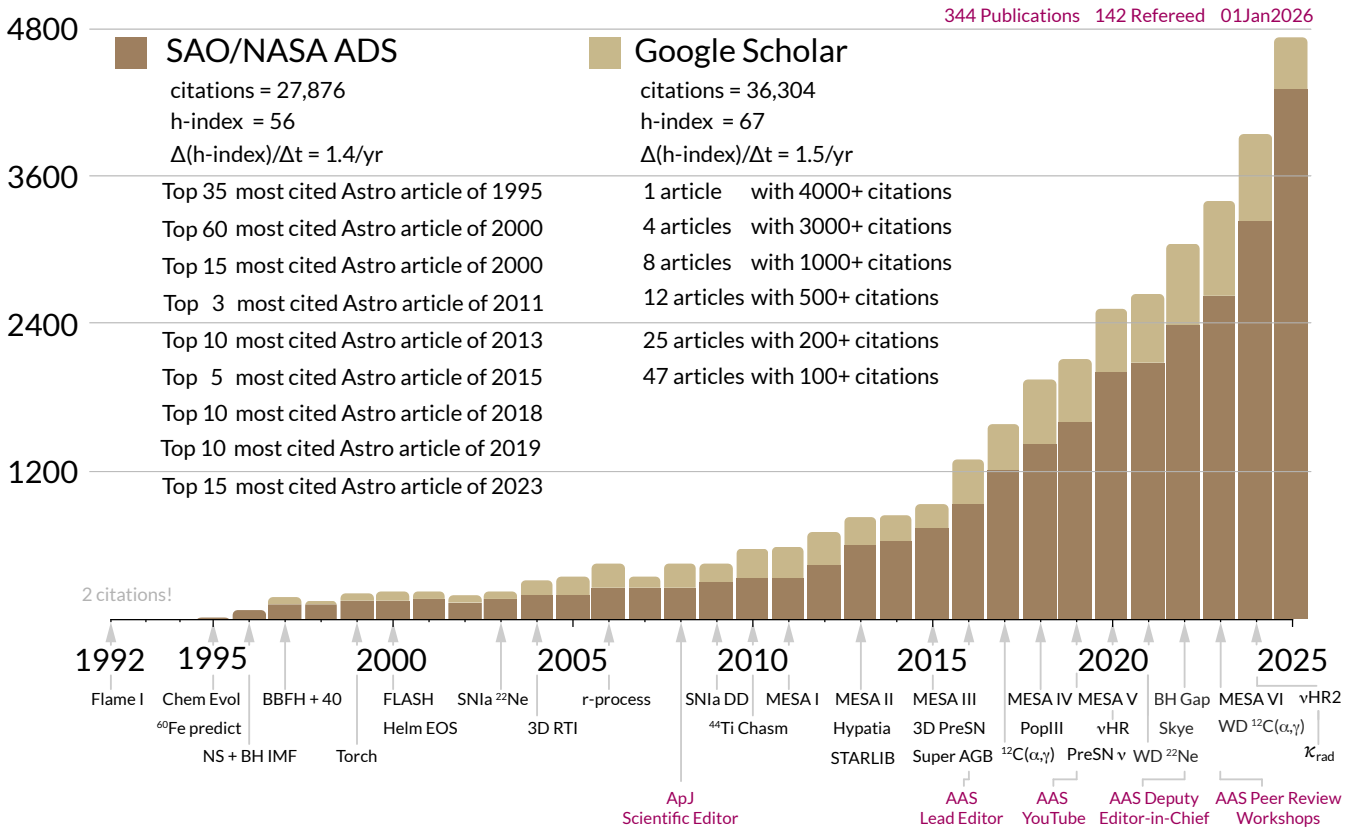
Education

1988 – 1992	UC Santa Cruz	M.S. & Ph.D. in Astronomy & Astrophysics
1981 – 1984	UC Santa Barbara	B.S. in Physics, with Honors

Recent Appointments

2022 –	Deputy Editor-in-Chief, American Astronomical Society Journals
2019 –	Senior Lead Editor, American Astronomical Society Journals
2016 –	Lead Editor, American Astronomical Society Journals
2009 –	Scientific Editor, American Astronomical Society Journals
2008 – 2025	Professor, Arizona State University, School of Earth and Space Exploration

Publication Summary



Research Funding

Total Awards Since 2008: $26.5M, $7.3M to Arizona State University as PI or Co-PI

Expenditures: FY25 $422K, FY24 $491K, FY23 $483K, FY22 $463K,

2022 – 2025	NSF	PI	$422K, *Neutrino Emission From Stars*
2022 – 2025	NASA	PI	$476K, *Probing The Interior Composition Of White Dwarfs*
2019 – 2024	NSF	Co-PI	$2M, *AccelNet-WOU: International Research Network ...*
2017 – 2022	NSF	PI	$2.3M, *Modules for Experiments ... (MESA)*
2014 – 2022	NSF	Co-PI	$11.2M, *Physics Frontiers Center, JINA-CEE*

Leadership and Management Activities

2022 –	Deputy Editor-in-Chief, American Astronomical Society Journals
2011 – 2015	Director, Advanced Computing Center, ASU
2009 – 2011	Associate Director of Operations, SESE, ASU

Awards, Fellowships, and Honors

2015	Simons Fellow in Theoretical Physics
2014	Fellow, American Physical Society
2013	Student Cluster Competition Prize, Supercomputing
2004	National Security Fellow, Los Alamos
2000	Gordon Bell Prize, Supercomputing

Successful Award Nominations

2021	Bill Paxton, Beatrice M. Tinsley Prize, American Astronomical Society
2020	Cecilia Lunardini, American Physical Society Fellow
2020	Brian Fields, American Physical Society Fellow
2018	Michael Wiescher, Laboratory Astrophysics Prize, American Astronomical Society
2017	Lars Bildsten, Dannie Heineman Prize for Astrophysics, American Astronomical Society
2016	Roland Diehl, American Physical Society Fellow
2012	David Arnett, Henry Norris Russell Lectureship, American Astronomical Society
2009	David Arnett, Hans A. Bethe Prize, American Physical Society

Invited Lectures and Colloquia

American Physical Society Nuclear Physics Division; Argonne National Laboratory;
Arizona State University; Aspen Center for Physics; California Institute of Technology;
Duke University; Flatiron Institute; Harvard University; Indiana University Bloomington;
Institute for Nuclear Theory; Kavli Institute for Theoretical Physics;
Lawrence Berkeley National Lab; Lawrence Livermore National Lab; Los Alamos National Lab;
Louisiana State University; Michigan State University; North Carolina State University;
Northwestern University; Notre Dame University; Ohio University; Physical Society of Japan;
Princeton University; SUNY - Stony Brook; Steward Observatory; Texas A&M Commerce;
University of Arizona; UC Berkeley; UC Santa Barbara; UC San Diego; University of Chicago;
University of Georgia; University of Innsbruck; University of Maryland at College Park;
UNC at Chapel Hill; University of Pittsburgh; Washington State University;
Wayne State University; Yale University

Recent National and International Service

2022 –	Deputy Editor-in-Chief, American Astronomical Society Journals
2022 –	Principal, American Astronomical Society Peer-Review Workshops
2019 –	Principal Content Provider, American Astronomical Society YouTube Channel
2019 –	Senior Lead Editor, American Astronomical Society Journals
2016 –	Lead Editor, American Astronomical Society Journals
2011 – 2022	Director & Lecturer, MESA Summer School, UC Santa Barbara
2009 –	Scientific Editor, American Astronomical Society Journals

Recent University Service

2022 – 2025	Colloquia Committee, SESE, ASU
2020 – 2022	Online Learning and Education Group, SESE, ASU

Summary of Undergraduate and Graduate Teaching

2014 – 2025	Energy in Everyday Life, ~3,000 learners/yr
2018 – 2023	ASU Universal Learner Program, ~6000 learners/yr
2015 – 2018	Largest college-credit eligible astronomy course in the world, ~10,000 learners/yr
2015 – 2015	First college-credit eligible MOOC (massive open online course) in the world

Graduate and Postdoctoral Sponsors

Stan Woosley, Graduate Thesis Advisor, UC Santa Cruz
Jim Truran, Postdoc Advisor, University of Chicago
Don Clayton, Postdoc Advisor, Clemson University
Richard Lingenfelter, Postdoc Advisor, UC San Diego

Undergraduate Advisor to

Carl E. Fields	Physics, 2016	Faculty, University of Arizona

Graduate Advisor to

Ebraheem Farag	2019–2024	ASU	Postdoc @ Yale Prize Fellowship
Morgan Chidester	2019–2023	ASU	Data Science @ Sorenson Communications
Wendy Hawley	2008–2012	ASU	Spatial Intelligence @ Vantor
Natalie Hinkel	2008–2012	ASU	Faculty @ LSU
Cody Raskin	2008–2011	ASU	Staff @ LLNL
Georgios Magkotsios	2007–2011	Notre Dame	Quantitative Finance Research

Postdoctoral Advisor to

Bill Wolf	2017-2019	Faculty @ University of Wisconsin - Eau Claire
Ilka Petermann	2015-2018	Research Fellow @ Gesellschaft für Anlagen-und Reaktorsicherheit
Rob Farmer	2014-2017	3D CAD Design @ AVEVA
Soma De	2010-2014	Senior Data Scientist @ Centene
Grant Newsham	2011-2013	Retired
Themis Athanassiadou	2009-2012	Senior Support Engineer @ Atlassian

Refereed Publications

r142. Inclusion of Isomers/Astromers in s-process Nucleosynthesis: The Pivotal Case of ^{85}Kr, Jaad Tannous, Wendell Misch, Matthew Mumpower, Bradley Meyer, F.X. Timmes, Aaron Couture, Chris Fryer, Astrophysical Journal, 986, 107, 2025

r141. The ^{12}C(α,γ)^{16}O reaction, in the laboratory and in the stars, James de Boer, Andreas Best, Carlo Brune, Alejandro Chieffi, Chloë, Gianluca Imbriani, Weiping Liu, Yangping Shen, F.X. Timmes, Michael Wiescher, The European Physical Journal A, 61, 70, 2025

r140. Photons from Neutrinos: The Gamma-Ray Echo of a Supernova Neutrino Burst, Cecilia Lunardini, Joshua Loeffler, Mainak Mukhopadhyay, Ebraheem Farag, F.X.Timmes, Astrophysical Journal, 969, 149, 2024

r139. An Expanded Set of Los Alamos OPLIB Tables in MESA: Type-1 Rosseland-mean Opacities and Solar Models, Ebraheem Farag, Christopher J. Fontes, F.X. Timmes, Earl P. Bellinger, Joyce A. Guzik , Evan B. Bauer, Suzannah R. Wood, Katie Mussack, Peter Hakel, James Colgan, David P. Kilcrease , Manolo E. Sherrill, Tryston C. Raecke, and Morgan T. Chidester, Astrophysical Journal, 968, 56, 2024

r138. Erratum: "On Stellar Evolution in a Neutrino Hertzsprung–Russell Diagram" (2020, ApJ, 893, 133) Ebraheen Farag, F.X. Timmes, Morgan Taylor, Kelly M. Patton, and R. Farmer, Astrophysical Journal, 965, 192, 2024

r137. Stellar Neutrino Emission across the Mass-Metallicity Plane, Ebraheem Farag, F.X.Timmes, Morgan T. Chidester, Samalka Anandagoda, Dieter H. Hartmann, Astrophysical Journal Supplement, 270, 5, 2024

r136. MESA-Web: A cloud resource for stellar evolution in astronomy curriculum, Carl E. Fields, Richard H.D. Townsend, A.L. Dotter, Michael Zingale, F.X. Timmes Astronomy Education Journal, 3, 1, 2023

r135. Seismic Signatures of the ^{12}C(α,γ)^{16}O Reaction Rate in White Dwarf Models with Overshooting, Morgan T. Chidester, Ebraheem Farag, and F.X. Timmes Astrophysical Journal, 954, 51, 2023

r134. Author Correction: A highly magnified star at redshift 6.2, Brian Welch and 29 co-authors including F.X. Timmes, Nature, 620, E10, 2023

r133. Modules for Experiments in Stellar Astrophysics (MESA): Time-Dependent Convection, Energy Conservation, Automatic Differentiation, and Infrastructure, Adam Jermyn, Evan B. Bauer, Josiah Schwab, Robert Farmer, Warrick H. Ball, Earl P. Bellinger, Aaron Dotter, Meridith Joyce, Pablo Marchant, Joey S. G. Mombarg, William M. Wolf, Tin Long Sunny Wong, Giulia C. Cinquegrana, Eoin Farrell, Radek Smolec, Anne Thoul, Matteo Cantiello, Falk Herwig, Odette Toloza, Lars Bildsten, Richard H. D. Townsnd, F.X. Timmes, Astrophysical Journal Supplement, 265, 15, 2023

r132. Horizons: nuclear astrophysics in the 2020s and beyond, Hendrik Schatz and 164 others including F.X. Timmes, Journal of Physics G: Nuclear and Particle Physics, 49, 110502, 2022

r131. JWST Imaging of Earendel, the Extremely Magnified Star at Redshift z = 6.2, Brian Welch and 61 others including F.X. Timmes, Astrophysical Journal Letters, 940, 1, 2022

r130. Resolving the Peak of the Black Hole Mass Spectrum, Ebraheem Farag, Mathieu Renzo, Robert Farmer, Morgan T. Chidester, F.X. Timmes, Astrophysical Journal, 937, 112, 2022

r129. On Trapped Modes In Variable White Dwarfs As Probes Of The $^{12}C(\alpha,\gamma)^{16}O$ Reaction Rate
Morgan T. Chidester, Ebraheem Farag, F.X. Timmes
Astrophysical Journal, 935, 21, 2022

r128. Flash-X: A multiphysics simulation software instrument, Anshu Dubey and 30 others including F.X. Timmes, SoftwareX, 19, 101168, 2022

r127. Localised thermonuclear bursts from accreting magnetic white dwarfs, S. Scaringi, P.J. Groot, C. Knigge, A.J. Bird, E. Breedt, D.A.H. Buckley, Y. Cavecchi, N.D. Degenaar, D. de Martino, C. Done, M. Fratta, K. Iłkiewicz, E. Koerding, J.-P. Lasota, C. Littlefield, C.F. Manara, M. O'Brien, P. Szkody, F.X. Timmes, Nature, 604, 447, 2022

r126. Stable nickel production in Type Ia supernovae: A smoking gun for the progenitor mass?, Stéphane Blondin, Eduardo Bravo, F.X. Timmes, Luc Dessart, D. John Hillier, Astronomy & Astrophysics, 660, 96, 2022

r125. A Highly Magnified Star at Redshift 6.2, Brian Welch, Dan Coe, Jose M. Diego and 26 co-authors including F.X. Timmes, Nature, 603, 815, 2022

r124. Observing intermediate-mass black holes and the upper stellar mass gap with LIGO and Virgo, Ajit Kumar Mehta, Alessandra Buonanno, M.C. Miller, Ebraheem Farag, R.J. DeBoer, M. Wiescher, and F.X. Timmes, Astrophysical Journal, 924, 39, 2022

r123. Skye: A Differentiable Equation of State, Adam S. Jermyn, Josiah Schwab, Evan Bauer, F.X. Timmes, and Alexander Y. Potekhin, Astrophysical Journal, 913, 72, 2021

r122. On the Impact Of ^{22}Ne On The Pulsation Periods Of Carbon-Oxygen White Dwarfs With Helium Dominated Atmospheres, Morgan T. Chidester, F.X. Timmes, Josiah Schwab, Richard H. D. Townsend, Ebraheem Farag, Anne Thoul, C. E. Fields, Evan B. Bauer, Michael H. Montgomery, Astrophysical Journal, 910, 24, 2021

r121. Presupernova Neutrinos: Directional Sensitivity and Prospects for Progenitor Identification, Mainak Mukhopadhyay, Cecilia Lunardini, F.X. Timmes, and Kai Zuber, Astrophysical Journal, 899, 153, 2020

r120. On Stellar Evolution In A Neutrino Hertzsprung-Russell Diagram, Ebraheen Farag, F.X. Timmes, Morgan Taylor, Kelly M. Patton, and R. Farmer, Astrophysical Journal, 893, 133, 2020

r119. Laminar Flame Speeds in Degenerate Oxygen-Neon Mixtures, Josiah Schwab, R. Farmer, and F.X. Timmes, Astrophysical Journal, 891, 5, 2020

r118. AAS Journals: Software and Data, F.X. Timmes and August Muench, Astronomical Data Analysis Software and Systems XXVIII. ASP Conference Series, Vol. 523, proceedings of a

conference held (11-15 October 2018) at The Hotel at the University of Maryland, College Park, Maryland, USA. Edited by Peter J. Teuben, Marc W. Pound, Brian A. Thomas, and Elizabeth M.Warner. San Francisco: Astronomical Society of the Pacific, 2019, p.693

r117. Modules for Experiments in Stellar Astrophysics (MESA): Pulsating Variable Stars, Rotation, Convective Boundaries, and Energy Conservation, Bill Paxton, R. Smolec, Josiah Schwab, A. Gautschy, Lars Bildsten, Matteo Cantiello, Aaron Dotter, R. Farmer, Jared A. Goldberg, Adam S. Jermyn, S.M. Kanbur, Pablo Marchant, Anne Thoul, Richard H.D. Townsend, William M. Wolf, Michael Zhang, and F.X. Timmes, ApJ Supplement, 243, 10, 2019

r116. On the Structure, Magnetic Properties, and Infrared Spectra of Iron Pseudocarbynes in the Interstellar Medium, P. Tarakeshwar, P.R. Buseck and F.X. Timmes, Astrophysical Journal, 879, 2, 2019

r115. Quantifying How Density Gradients And Front Curvature Affect Carbon Detonation Strength During Type Ia Supernovae, Broxton J. Miles, Dean M. Townsley, Ken J. Shen, F. X. Timmes, and Kevin Moore, Astrophysical Journal, 871, 154, 2019

r114. The Impact Of White Dwarf Luminosity Profiles On Oscillation Frequencies, F.X. Timmes, Richard H. D. Townsend, Evan B. Bauer, Anne Thoul, C.E. Fields, and William M. Wolf, Astrophysical Journal Letters, 867, 30, 2018

r113. Data: Insights and Challenges in a Time of Abundance, F.X. Timmes and Leon Golub Astrophysical Journal Supplement 236, 1, 2018

r112. Modules for Experiments in Stellar Astrophysics (MESA): Convective Boundaries, Element Diffusion, and Massive Star Explosions, B. Paxton, J. Schwab, E. B. Bauer, L. Bildsten, S. Blinnikov, P. Duffell, R. Farmer, J. A. Goldberg, P. Marchant, E. Sorokina, A. Thoul, R. H. D. Townsend and F.X. Timmes, Astrophysical Journal Supplement 234, 34, 2018

r111. On the Observability of Individual Population III Stars and Their Stellar-mass Black Hole Accretion Disks through Cluster Caustic Transits, Rogier A. Windhorst, F.X. Timmes, J. Stuart B. Wyithe, Mehmet Alpaslan, Stephen K. Andrews, Daniel Coe, Jose M. Diego, Mark Dijkstra, and Simon P. Driver, Patrick L. Kelly, and Duho Kim, Astrophysical Journal Supplement, 234, 21, 2018.

r110. The Impact of Nuclear Reaction Rate Uncertainties On The Evolution of Core-Collapse Supernova Progenitors, C.E. Fields, F.X. Timmes, R. Farmer, I. Petermann, William M. Wolf, and S. M. Couch, Astrophysical Journal Supplement, 234, 19, 2018.

r109. The Neutron Capture Process in the He Shell in Core-Collapse Supernovae. Presolar Silicon Carbide Grains: a diagnostic for nuclear astrophysics, M. Pignatari, P. Hoppe, R. Trappitsch, C. Fryer, F.X. Timmes, F. Herwig, and R. Hirschi, Geochimica and Cosmomichimica Acta, 221, 37, 2018

r108. Neutrinos from beta processes in a presupernova: probing the isotopic evolution of a massive star, Kelly M. Patton, Cecilia Lunardini, Robert J. Farmer, and F.X. Timmes, Astrophysical Journal, 851, 6, 2017

r107. The $^{12}C(\alpha,\gamma)^{16}O$ reaction and its implications for stellar helium burning, R. J. deBoer, J .Gorres, M. Wiescher, R.E. Azuma, A. Best, C.R. Brune, C.E. Fields, S. Jones, M. Pignatari, D. Sayre, K. Smith, F.X. Timmes, & E. Uberseder, Review of Modern Physics, 89, 035007, 2017

r106. Observational evidence for high neutronization in supernova remnants: implications for Type Ia supernova progenitors, Héctor Martínez-Rodríguez, Carles Badenes, Hiroya Yamaguchi, Eduardo Bravo, F.X. Timmes, M.J. Broxton, Dean M. Townsley, Anthony L. Piro, Hideyuki Mori, Brett Andrews, and S. Park Astrophysical Journal, 843, 35, 2017

r105. White paper on nuclear astrophysics and low energy nuclear physics Part 1: Nuclear astrophysics, A. Arcones and 32 others including F.X. Timmes, Progress in Particle and Nuclear Physics, 94, 1, 2017

r104. Constraining the Single-degenerate Channel of Type Ia Supernovae with Stable Iron-group Elements in SNR 3C 397, Pranav Dave, Rahul Kashyap, Robert Fisher, F.X. Timmes, Dean Townsley, Astrophysical Journal, 841, 58, 2017

r103. On Variations Of Pre-Supernova Model Properties, R. Farmer, C.E. Fields, I. Petermann, Luc Dessart, M. Cantiello, B. Paxton, & F.X. Timmes, Astrophysical Journal Supplement, 227, 22, 2016

r102. Turbulent Chemical Diffusion In Convectively Bounded Carbon Flames, Daniel Lecoanet, Josiah Schwab, Eliot Quataert, Lars Bildsten, F.X. Timmes, Keaton J. Burns, Geoffrey M. Vasil, Jeffrey S. Oishi, & Benjamin P. Brown, Astrophysical Journal, 832, 71, 2016

r101. Bayesian Estimation Of Thermonuclear Reaction Rates, C. Iliadis, K.A. Anderson, A. Coc, S. Starrfield, & F.X. Timmes, Astrophysical Journal, 831, 107, 2016

r100. NuGrid stellar data set. I. Stellar yields from H to Bi for stars with metallicities Z=0.02 and Z=0.01, Pignatari, M., Herwig, F., Hirschi, R., Bennett, M., Rockefeller, G., Fryer, C., Timmes, F. X., Ritter, C., Heger, A., Jones, S., Battino, U., Ritter, C., Dotter, A., Trappitsch, R., Diehl, S., Frischknecht, U., Hungerford, A., Magkotsios, G., Travaglio, C. Young, P., Astrophysical Journal, 225, 24, 2016

r99. Nucleosynthetic Yields From Multidimensional Simulations of Type Ia Supernova: Reconstruction of Thickened Flames and Verification for Planar Detonations, D.M. Townsley, B.J. Miles, F.X. Timmes, A.C. Calder, and E.F. Brown, Astrophysical Journal Supplement, 225, 3, 2016

r98. On Measuring the Metallicity of Supernovae Type Ia Progenitors, B.J. Miles, D.R. van Rossum, D.M. Townsley, F.X. Timmes, A.P. Jackson, A.C. Calder, and E.F. Brown, Astrophysical Journal, 824, 59, 2016

r97. Properties of Carbon-Oxygen White Dwarfs From Monte Carlo Stellar Models C.E. Fields, R. Farmer, I. Petermann, C. Iliadis, and F.X. Timmes, Astrophysical Journal, 823, 46, 2016

r96. Convective Properties of Rotating Two-Dimensional Core-Collapse Supernova Progenitors E. Chatzopoulos, S.M. Couch, W.D. Arnett, and F.X. Timmes, Astrophysical Journal, 822, 61, 2016

r95. Erratum: Modules for Experiments in Stellar Astrophysics (MESA): Binaries, Pulsations, and Explosions, B. Paxton, P. Marchant, J. Schwab, E.B. Bauer, L. Bildsten, M. Cantiello, L. Dessart, R. Farmer, H. Hu, N. Langer, R.H.D. Townsend, D.M. Townsley, and F.X. Timmes, Astrophysical Journal Supplement, 223, 18, 2016

r94. Modules for Experiments in Stellar Astrophysics (MESA): Binaries, Pulsations, and Explosions, B. Paxton, P. Marchant, J. Schwab, E.B. Bauer, L. Bildsten, M. Cantiello, L. Dessart, R. Farmer, H. Hu, N. Langer, R.H.D. Townsend, D.M. Townsley, and F.X. Timmes, Astrophysical Journal Supplement, 220, 1, 2015

r93. Carbon-rich presolar grains from massive stars: Subsolar $^{12}C/^{13}C$ and $^{14}N/^{15}N$ ratios and the missing ^{15}N, M. Pignatati, E. Zinner. P .Hoppe, C. Jordan, B.K. Gibson, R. Trappitsch, F. Herwig, C.L. Fryer, R. Hirschi, and F.X. Timmes, Astrophysical Journal Letters, 808, 2, 2015

r92. The Three Dimensional Evolution to Core Collapse of a Massive Star, S.M. Couch, E. Chatzopoulos, W.D. Arnett, and F.X. Timmes, Astrophysical Journal Letters, 808, 1, 2015

r91. On Carbon Burning in Super Asymptotic Giant Branch Stars, R. Farmer, C.E. Fields, and F.X. Timmes, Astrophysical Journal, 807, 184, 2015

r90. Constraints On Explosive Silicon Burning In Core-Collapse Supernovae From Measured Ni/Fe Ratios, A. Jerkstrand, F.X. Timmes, G. Magkotsios, S.A. Sim, C. Fransson, J. Spyromilio, J. Sollerman, A. Heger, B. Müller, J. Sollerman, and S.J. Smartt, Astrophysical Journal, 807, 110, 2015

r89. Statistical Methods for Thermonuclear Reaction Rates and Nucleosynthesis Simulations, C. Iliadis, R. Longland, A. Coc, F.X. Timmes and A.E Champagne, Journal of Physics G: Nuclear and Particle Physics, 42 034007, 2015

r88. Stellar Abundances in the Solar Neighborhood: The Hypatia Catalog, N.R. Hinkel, F.X. Timmes, P.A. Young, M.D. Pagano, M.C. Turnbull, The Astronomical Journal, 148, 54, 2014

r87. The Light Curve Of SN 1987A Revisited: Constraining Production Masses Of Radioactive Nuclides, I. Seitenzahl, F.X. Timmes, and G. Magkotsios, Astrophysical Journal, 792, 10, 2014

r86. On Silicon Group Elements Ejected by Supernovae Type Ia, S. De, F.X. Timmes, E.F. Brown, A.C. Calder, D.M. Townsley, T. Athanassiadou, D.A. Chamulak, W.P. Hawley, and D. Jack, Astrophysical Journal, 787, 149, 2014

r85. Evolution of FLASH, a multi-physics scientific simulation code for high-performance computing, A. Dubey and 19 co-authors including F.X. Timmes, International Journal of High Performance Computing Applications, 28, 2, 225, 2014

r84. Modules for Experiments in Stellar Astrophysics (MESA): Planets, Oscillations, Rotation, and Massive Stars, B. Paxton, M. Cantiello, P. Arras, L. Bildsten, E.F. Brown, A. Dotter, C. Mankovich, M.H. Montgomery, D. Stello, F.X. Timmes, and R. Townsend, Astrophysical Journal Supplement, 208, 4, 2013

r83. Advanced burning stages and fate of 8-10 $M_\odot$ stars, S. Jones, R. Hirschi, K. Nomoto, F.X. Timmes, T. Fischer, F. Herwig, and B. Paxton, Astrophysical Journal, 772, 150, 2013

r82. STARLIB: A Next-Generation Reaction-Rate Library for Nuclear Astrophysics, A.L. Sallaska, C. Iliadis, A.E. Champagne, S. Goriely, S. Starrfield, and F. X. Timmes, Astrophysical Journal Supplement, 207, 18, 2013

r81. Silicon carbide grains of type C provide evidence for the production of the unstable isotope ^{32}Si in supernovae, M. Pignatari, E. Zinner, M. G. Bertolli, R. Trappitsch, P. Hoppe, T. Rauscher, C. Fryer, F. Herwig, R. Hirschi, F. X. Timmes, and F.-K. Thielemann, Astrophysical Journal Letters, 771, L7, 2013

r80. Production of carbon-rich presolar grains from massive stars, M. Pignatari, M. Wiescher, F.X. Timmes, R.J. de Boer, F.-K. Thielemann, C. Fryer, A. Heger, F. Herwig, and R. Hirschi, Astrophysical Journal Letters, 767 L22, 2013

r79. The ^{12}C + ^{12}C reaction and the impact on nucleosynthesis in massive stars, M. Pignatari, R. Hirschi, M. Wiescher, R. Gallino, M. Bennett, M. Beard, C. Fryer, F. Herwig, G. Rockefeller, and F.X. Timmes, Astrophysical Journal, 762, 31, 2013

r78. On Simulating Type Ia Supernovae, A.C. Calder, B.K. Krueger, A.P. Jackson, D.M. Townsley, E.F. Brown and F.X. Timmes, Journal of Physics, 402, 012023, 2012

r77. Zero Impact Parameter White Dwarf Collisions in FLASH, W.P. Hawley, T. Athanassiadou, and F.X. Timmes, Astrophysical Journal, 759, 39, 2012

r76. Evaluating Systematic Dependencies of Type Ia Supernovae: The Influence of Central Density, B.K. Krueger, A.P. Jackson, A.C. Calder, D.M. Townsley, E.F. Brown, and F.X. Timmes, Astrophysical Journal, 757, 175, 2012

r75. Mixing of Clumpy Supernova Ejecta into Molecular Clouds, L. Pan, S. Desch, E. Scannapieco, and F.X. Timmes, Astrophysical Journal, 756, 102, 2012

r74. The effect of 12C + 12C rate uncertainties on the evolution and nucleosynthesis of massive stars, M. E. Bennett, R. Hirschi, M. Pignatari, S. Diehl, C. Fryer, F. Herwig, A. Hungerford, K. Nomoto, G. Rockefeller, F.X. Timmes, and M. Wiescher, Monthly Notices of the Royal Astronomical Society, 420, 3047, 2012

r73. Remnants of Binary White Dwarf Mergers C. Raskin, E. Scannapieco, G. Rockefeller, C.L. Fryer, and F.X. Timmes, Astrophysical Journal, 746, 62, 2012

r72. Freeze-out Yields of Radioactivities in Core-collapse Supernovae G. Magkotsios, F.X. Timmes, and M. Wiescher, Astrophysical Journal, 741 78, 2011

r71. Modules for Experiments in Stellar Astrophysics (MESA), B. Paxton, L. Bildsten, A. Dotter, F. Herwig, P. Lesaffre, and F.X. Timmes, Astrophysical Journal Supplement, 192 3, 2011

r70. ^{44}Ti and ^{56}Ni from Core-Collapse Supernovae, G. Magkotsios, F.X. Timmes, A. Hungerford, C.L. Fryer, P. Young, and M. Wiescher, Astrophysical Journal Supplement, 191 66, 2010

r69. ^{56}Ni Production in Double-degenerate White Dwarf Collisions, C. Raskin, E. Scannapieco, G. Rockefeller, C.L. Fryer, S. Diehl and F.X. Timmes, Astrophysical Journal, 724 111, 2010

r68. Evaluating Systematic Dependencies of Type Ia Supernovae: The Influence of Deflagration to Detonation Density, A.P. Jackson, A.C. Calder, D.M. Townsley, D.A. Chamulak, E.F. Brown, and F.X. Timmes, Astrophysical Journal, 720 99, 2010

r67. On Variations of the Brightness of Type Ia Supernovae with the Age of the Host Stellar Population, B.K. Krueger, A.P. Jackson, D.M. Townsley, A.C. Calder, E.F. Brown, and F.X. Timmes, Astrophysical Journal, 719 L5, 2010

r66. Spectra of Type Ia Supernovae from Double Degenerate Mergers, C.L. Fryer and 16 others including F.X. Timmes, Astrophysical Journal, 725 296, 2010

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