

Brad E. Tucker

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Experience

- **Associate Professor** Australian National University 2025 -
- **Fellow and Senior Lecturer** Australian National University 2021 - 2024
- **Research Fellow** Australian National University 2015 - 2020
- **Postdoctoral Fellow** Dept. of Astronomy, University of California, Berkeley 2013 - 2015
- **Outreach Assistant** Mt. Stromlo Observatory, Australian National University 2009 - 2013
- **Assistant Manager Instructional Resources** University of Notre Dame 2004 - 2007
- **Research Assistant** Dept. of Physics, University of Notre Dame 2004 - 2007
- **Research Assistant** Cerro Tololo Inter-American Observatory 2006

Education

- **The Australian National University** 2013
The Research School of Astronomy and Astrophysics
Ph.D. In Pursuit of Dark Energy: Improving Measurements in Supernova Cosmology
- **University of Notre Dame** 2007
Department of Physics, Department of Philosophy, Department of Theology
B.Sc. Physics, B.A. Philosophy, B.A. Theology

Research Interests and Current Projects

- Dark Energy; Supernova Cosmology; Type Ia Supernova Progenitors; Supernova Shock Break-Out; Type Ia Supernova Host Galaxies; UV Excess; UV Observations and Instrumentation; Public Perceptions of Science; Popular Fiction and Science Communication; Machine Learning for Science Communication

Awards, Honors & Scholarships

- **Highly Commended - First Nations Heritage (Djara)** National Trust ACT Heritage Awards 2025
- **Dean's Commendation for Excellence in Supervision** Australian National University 2024
- **Silver Award (with Society)** Public Relations Institute of Australia 2022
- **Volunteer of the Year** ACT Education 2021
- **Dean's Commendation for Excellence in Education for Programs that Enhance Learning (Team)** Australian National University 2020
- **Vice-Chancellor's Award for Impact and Engagement Finalist (Team)** Australian National University 2020
- **Community Engagement Finalist** AFR Higher Education Awards 2019
- **Distinguished Alumni** Christian Brothers High School 2018
- **Organizer** Guinness World Record - Most People Stargazing - Multiple Sites in a Country 2015
- **Impact Award for Reach and Influence** Australian National University 2017

- **Digital Award** Australian National University 2017
- **Vice-Chancellor's Award for Excellence** Australian National University 2017
- **24/7 Award** Australian National University 2017
- **Outreach Award** Australian National University 2017
- **Outstanding Team Award - Outreach** Australian National University 2016
- **Outreach Award** Australian National University 2015
- **Innovative Communications Award** Australian National University 2015
- **Emerging Talent Award** Australian National University 2015
- **Best On-Screen Talent Award** Australian National University 2015
- **24/7 Award** Australian National University 2015
- **ACT Tall Poppy** Australian Institute of Policy and Science 2015
- **Organizer** Guinness World Record for Most People Stargazing at a Single Site 2015
- **Organizer** Guinness World Record - Most People Stargazing - Multiple Sites in a Country 2015
- **Winner, I'm a Scientist, Get Me Out of Here!** Australia 2012
- **Vice Chancellor's Outreach Award (Group)** Australian National University 2011
- **Vice Chancellor's Special Award (Group)** Australian National University 2007
- **AAS Chambliss Student Medal** Runner-Up 2007
- **Physics Department Award** University of Notre Dame 2007
- **Fellows Full Tuition Scholarship** University of Notre Dame 2005 - 2007
- **Special Directors Award** Nanovic Institute for European Studies 2006
- **Old College Full Tuition Scholarship** University of Notre Dame 2003 - 2005

Professional Societies

- AAS (American Astronomical Society)
- ASA (Astronomical Society of Australia)
- ASC (Australian Science Communicators)
- IAU (International Astronomical Union)
- IDA (International Dark-Sky Association)
- PCST (Public Communication of Science and Technology)

Boards, Committees, and Consultancies

- **Board Member** Australia Network for Art and Technology 2024 -
- **Member** Giant Magellan Telescope Education and Outreach Oversight Committee 2023 -
- **Member** ACT Transport Canberra & City Services Oversight Committee 2015 -
- **Expert Witness** Victoria Police 2015 -
- **Expert Witness** Queensland Police 2015 -
- **Expert Witness** Western Australia Police 2015 -
- **Expert Witness** South Australia Police 2015 -
- **Expert Witness** New South Wales Police 2015 -
- **Expert Witness** Australian Federal Police 2014 -
- **Consultant** Canberra Museum of Art and Gallery 2023-2025
- **Consultant** Western Sydney International Airport 2024
- **Consultant** Upcoming Movie, Netflix 2024-2025
- **Member** NASA Kepler K2 User Panel 2017 - 2019
- **Member** ACT National Science Week Committee 2015 - 2019

- Member ASA Education and Public Outreach Committee 2015 - 2018
- Consultant Royal Australian Mint 2015-2019
- Consultant Alien: Covenant 2017
- Member ACT Route 5 Tourist Working Group 2016 - 2018
- Member ACT Australian Science Communicators Committee 2015 - 2016
- Member Australian Decadal Plan - Working Group 3.2 2014
- Student Representative Astronomical Society of Australia Council 2009 - 2010

Teaching Experience

- ASTR1003 Australian National University 2021 -
- SCOM2003/6003 Australian National University 2018 -
- Life in Space (Adult Ed. Course) Australian National University 2016 -
- Astronomy for Fun (Adult Ed. Course) Australian National University 2013 -
- Teaching Assistant University of Notre Dame 2005 - 2007
- Academic Tutor University of Notre Dame 2005

Professional Service

- Member European Southern Observatory Expert Panel 2025 -
- Member ANU College of Systems and Society Ethics Committee 2025 -
- Member ANU Indigenous Strategy Working Group 2024 -
- Member International Astronomical Union Communicating Astronomy with the Public Working Group 2024 -
- Member International Astronomical Union Cultural Astronomy Working Group 2024 -
- National Outreach Coordinator International Astronomical Union 2022 -
- Bachelors of Philosophy (PhB) Coordinator CPAS, ANU 2022 -
- Convener RSAA Winter School 2012 -
- Convener RSAA Work Experience Program 2011 -
- Chair, Local Organizing Committee Supernovae Near and Far, celebrating the achievements of Brian Schmidt and the 40th anniversary of SN1987A 2025-2026
- Member, Scientific Organizing Committee Supernovae Near and Far, celebrating the achievements of Brian Schmidt and the 40th anniversary of SN1987A 2025-2026
- Member, Scientific Organizing Committee IAU Communication Astronomy with the Public 2026 2025-2026
- Member, Scientific Organizing Committee IAU Symposium 409: Innovative Research and Techniques in Astronomy Outreach 2025-2026
- Member, Scientific Organizing Committee Astronomical Society of Australia Annual Meeting 2025
- Member, Local Organizing Committee IAU Symposium 399: Indigenous Astronomy in the Space Age 2025
- Chair Australia Academy of Science Decadal Plan - Working Group 3.2 Outreach, Education, and Training 2023 - 2025

- **Chair** Australia Academy of Science Decadal Plan - Working Group 1.5 Aboriginal and Torres Strait Islander Astronomy 2023 - 2025
- **Member** Australia Academy of Science Decadal Plan - Working Group 1.4 Time Domain Astrophysics 2023 - 2025
- **Scientific Organizing Committee** Transients Down Under 2024
- **Scientific Organizing Committee** Transients Down Under 2024
- **Chair, Local Organizing Committee** Astronomical Society of Australia Annual Meeting 2017
- **Chair, Scientific Organizing Committee** Astronomical Society of Australia Annual Meeting 2017
- **Scientific Organizing Committee** K2SciCon 2015
- **Member** RSAA Workplace Giving Committee 2015 - 2017
- **Scientific Organizing Committee** K2SciCon 2015
- **Member** ACT Route 5 Tourist Working Group 2016 - 2018
- **Member** ACT Australian Science Communicators Committee 2015 - 2016
- **Member** Australian Decadal Plan - Working Group 3.2 2014
- **Local Organizing Committee** Supernova in the Local Universe 2014
- **Local Organizing Committee** Fireworks 2014 2014
- **Colloquium Committee** Mt. Stromlo Observatory 2007 - 2012
- **Student Representative** Astronomical Society of Australia Council 2009 - 2010
- **Scientific Organizing Committee** Astronomical Society of Australia Meeting, Melbourne 2009
- **Local Organizing Committee** Murchison Widefield Array Meeting 2009
- **Local Organizing Committee** Science with the Giant Magellan Telescope (GMT) Meeting 2008

Public Outreach

- **Regular on TV** Weekend Sunrise, Sunrise, The Morning Show, and the Daily Edition on Channel 7, Studio 10/Channel 10, Today Show on Channel 9, ABC News 24, ABC 7:30 Report, ABC Weekend Breakfast, NewsAsia (Singapore)
- **Regular on Radio** ABC 666 Canberra, FM 104.7 Canberra, FM 106.3 Canberra, 2CC Canberra, 2CA Canberra, PowerFM Bega, ABC South East, Triple M Sydney, Talking Lifestyles Sydney, Melbourne, and Brisbane, Triple M Hobart, ABC Central Victoria, ABC North West WA, ABC Adelaide, ABC Perth, 4BC Brisbane, 4KQ Brisbane, 6PR Perth, 2GB Sydney, 3AW Melbourne, 2BS Bathurst, Radio NZ, and Newstalk ZB New Zealand
- **Guest Appearances on TV** ABC Catalyst, ABC Stargazing Live, BBC Stargazing Live, National Geographic Channel Specials
- **Guest Appearances on Radio** Over 150 radio stations across Australia, New Zealand, UK, the US, and the UK
- **Total Media Appearances** 2017 (365), 2018 (601), 2019 (630), 2020 (756), 2021 (850), 2022 (1025), 2023 (1155), 2024 (1202)
- **Speaker** Amateur Astronomy Clubs, Primary, Secondary, and Tertiary Schools, Clubs (i.e. Rotary, Probus, Lions), and General Public Events

- **Project Manager / Lead** Mt Stromlo Visitor Centre Redevelopment 2023-2025
- **Organizer** STARS Program - 80 schools across Australia 2018 -
- **Project Manager / Lead** Southern Skies Exhibit - Australian Embassy Beijing, China 2024
- **Project Manager / Lead** Southern Skies Exhibit - Australian Consulate Shanghai, China 2024
- **Organizer** Satellite Selfie - 20,000 people in the ACT, NSW, and NT 2020
- **Organizer** ANU Moon Week 2019
- **Organizer** World Record Stargazing - 230 locations, 30,000 people 2018
- **Organizer** World Record Stargazing - 33 locations, 7,800 people 2015
- **Project Manager / Lead** Mt Stromlo Visitor Centre Redevelopment 2015
- **Project Manager / Lead** Siding Spring Visitor Centre Redevelopment 2015

Students Supervised

- **Peter Swanton - Australian National University - PhD** 2024 -
Primary Supervisor and Chair of Panel
- **Lucy Darragh - Australian National University - PhD** 2023 -
Supervisor
- **Peter Swanton - Australian National University - MPhil** 2021 - 2024
Primary Supervisor and Chair of Panel
- **Patrick Armstrong - Australian National University - PhD** 2020 - 2024
Supervisor
- **Rishika Prabhakaran - Australian National University - Honours** 2023
Primary Supervisor and Chair of Panel
- **Umang Malik - Australian National University - PhD** 2019 - 2023
Supervisor - Thesis Accepted
- **Georgie Taylor - Australian National University - PhD** 2019 - 2023
Primary Supervisor and Chair - Thesis Accepted
- **Harrison Abbott - Australian National University - PhD** 2018 - 2023
Primary Supervisor and Chair - Thesis Accepted
- **Natalia Eire Sommer - Australian National University - MPhil** 2016 - 2021
Primary Supervisor and Chair - Graduated
- **Grace Goodman - Australian National University - Honours** 2020
Co Supervisor
- **Patrick Armstrong - Australian National University - Honours** 2019
Primary Supervisor - H1
- **Karishma Kadlak** 2017 - 2019
Australian National University - Masters Advanced Astronomy
- **Nataliea Lowson - Australian National University - Honours** 2017 - 2019
Primary Supervisor - H2A
- **Ryan Ridden-Harper - ANU - PhD** 2016 - 2019
Primary Supervisor and Chair - Graduated
- **Umang Malik - Australian National University - Honours** 2018
Primary Supervisor - H1
- **Georgie Taylor - Australian National University - Honours** 2018
Primary Supervisor - H1
- **Daniel Muthukrishna - University of Queensland - Honours** 2016
External Supervisor - H1, ASA Bok Prize

Grants

- **Kavli Foundation \$305,633.91** 2025 - 2026
Brad Tucker, Joan Leach, Peter Swanton
- **Department of Industry Inspiring Australia \$446,250** 2024 - 2026
Rachel Rodney-Harris, Anne-Sophie Dielen, Brad Tucker, Graham Walker

- **Department of Industry Maker Projects Community STEM Engagement \$15,000** 2025
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- **Department of Industry Maker Projects Community STEM Engagement \$100,000** 2023 - 2025
Brad Tucker
- **Inspiring Australia ACT \$2,000** 2025
Brad Tucker
- **International Astronomical Union 5,000 Euros** 2024 - 2025
Brad Tucker
- **Inspiring Australia ACT \$2,000** 2025
Brad Tucker
- **ACT Government - ACT National Science Week \$25,000** 2023
Brad Tucker
- **NSW Space Research Network \$5,600** 2023
Brad Tucker
- **ACT Government - Tourism Investment Program \$25,000** 2022 - 2024
Brad Tucker
- **Chinese Academy of Science 1,200,000 RMB (\$247,700)** 2021 - 2024
Jian-Min Wang, Brad Tucker
- **ACT Government - COVID-Safe Tourism Investment Program \$100,000** 2021 - 2022
Brad Tucker
- **Department of Industry Maker Projects - Community STEM Engagement \$85,000** 2021 - 2022
Delese Brewster, Brad Tucker
- **ACT Government - Where You Are \$20,000** 2020
Brad Tucker
- **NASA - Kepler K2 Cycle 5 Guest Investigator \$250,000** 2017 - 2019
Armin Rest, Brad Tucker, Peter Garnavich, Dan Kasen, Gautham Narayan, Richard Mushotzky, Ed Shaya
- **Department of Industry National Science Week \$20,000** 2018
Brad Tucker
- **NASA - Kepler K2 Cycle 2 Guest Investigator \$150,000** 2016 - 2017
Brad Tucker, Armin Rest, Peter Garnavich, Dan Kasen, Richard Mushotzky, Ed Shaya
- **NASA - Kepler K2 Cycle 1 Guest Investigator \$150,000** 2015 - 2016
Brad Tucker, Armin Rest, Peter Garnavich, Dan Kasen, Richard Mushotzky, Ed Shaya
- **NASA - Kepler Cycle 5 Guest Investigator \$105,000** 2014, Cancelled
Brad Tucker
- **NASA - Herschel Cycle 2 Open Time \$206,663** 2013, Cancelled
Brad Tucker, Peter Garnavich, Brian Schmidtr
- **NASA - Kepler Cycle 4 Guest Investigator \$105,000** 2012 - 2013
Peter Garnavich, Brad Tucker, Alex Filippenko, + 5 more
- **NASA - Kepler Cycle 3 Guest Investigator \$75,000** 2011 - 2013
Peter Garnavich, Brad Tucker, Alex Filippenko, + 5 more
- **NASA - GalEx Cycle 6 Guest Investigator \$60,000** 2010 - 2011
Brad Tucker, Peter Garnavich, Brian Schmidt

Publications

I have authored 117 peer reviewed papers, with over 16000 citations. I have a Google Scholar H-index of 52. Supervised students in bold.

- *Compact Spatial Heterodyne Spectrographs for Future Space-Based Observations: Instrument Modeling and Applications*, **Ayan Sahoo**, Joice Matthew, Andrew Battisti, Brad Tucker, 2024, Sensors, 24, 4709
- *OzDES Reverberation Mapping Program: Stacking analysis with H α , Mg II, and C IV*, **Malik, U**, Sharp, R., Tucker, B.E., et al. 2024, MNRAS, 531, 163
- *Using audience reviews of popular medical dramas to understand public perception of doctors and healthcare*, **Sofoulis, Laure E.** and Tucker, Brad, E.; 2024, Journal of Science Communication, in press
- *The Kid Genius and the Crazy Mad Scientist: Portrayals of scientists in children's animation and how their (mis)representations affect and influence women and diversity in STEM*, **Turner, Elizabeth and Tucker, Brad, E.**; 2024, Science Communication, in press
- *Examining the superpower-based representation of eating disorder illness and recovery with data mining of The Art of Starving*, **Sargent, Rebecca** and Tucker, Brad, E.; 2024, Journal of Eating Disorders, in press

- *China - The New Number 2 Space Power*, Tucker, Brad, E.; 2024, China Story Yearbook, 2024
- *Astronomy and Space Sciences for the Public Good*, Tucker, Brad E.; 2024, Journal of Physics Conference Series, in press
- *Probing the consistency of cosmological contours for supernova cosmology*, **Armstrong, P.**; et al. 2023, PASA, 40, 38
- *Broad-emission-line dominated hydrogen-rich luminous supernovae*, Pessi, P. J.; et al. 2023, MNRAS, 523, 5315
- *Constraints on the Hubble constant from supernova Refsdal's reappearance*, Kelly, P; et al. 2023, Science, 380, 1322
- *The Magnificent Five Images of Supernova Refsdal: Time Delay and Magnification Measurements*, Kelly, P; et al. 2023, ApJ, 948, 33
- *OzDES Reverberation Mapping Program: H Beta lags from the 6-yr survey*, **Malik, U**, Sharp, R., Tucker, B.E., et al. 2023, MNRAS, 520, 2009
- *Core-collapse supernovae in the Dark Energy Survey: luminosity functions and host galaxy demographics*, Grayling, M; et al. 2023, MNRAS, 520, 684
- *Revealing the Progenitor of SN 2021zby through Analysis of the TESS Shock-cooling Light Curve*, Wang, Q; et al. 2023, MNRAS, 518, 1985
- *The Dark Energy Survey supernova program: cosmological biases from supernova photometric classification*, Vincenzi, M; et al. 2022, MNRAS, 518, 1106
- *Using host galaxy spectroscopy to explore systematics in the standardization of Type Ia supernovae*, Dixon, M; et al. 2022, MNRAS, 517, 4291
- *OzDES Reverberation Mapping Program: H Beta lags from the 6-yr survey*, **Malik, U**, Sharp, R., Tucker, B.E., et al. 2023, MNRAS, 520, 2009
- *Measuring Cosmological Parameters with Type Ia Supernovae in redMaGiC Galaxies*, Chen, R; et al. 2022, ApJ, 938, 15
- *Weak Mass Loss from the Red Supergiant Progenitor of the Type II SN 2021yja*, Hosseinzadeh, G; et al. 2022, ApJ, 935, 24
- *Multiwavelength optical and NIR variability analysis of the Blazar PKS 0027-426*, Guise, E; et al. 2022, MNRAS, 510, 3145
- *The dark energy survey 5-yr photometrically identified type Ia supernovae*, Moller, A; et al. 2022, MNRAS, 514, 5159
- *Velocity dispersions of clusters in the Dark Energy Survey Y3 redMaPPer catalogue*, Wetzell, V; et al. 2022, MNRAS, 514, 4695
- *Photometric and spectroscopic evolution of the interacting transient at 2016jbu(Gaia16cfr)*, Brennan, S; et al. 2022, MNRAS, 513, 5642
- *Progenitor, environment, and modelling of the interacting transient AT 2016jbu (Gaia16cfr)*, Brennan, S; et al. 2022, MNRAS, 513, 5666
- *OzDES reverberation mapping program: Lag recovery reliability for 6-yr C iv analysis*, Penton, A; et al. 2022, MNRAS, 509, 4008 item *Dark Energy Survey Year 3 results: A 2.7% measurement of baryon acoustic oscillation distance scale at redshift 0.835'*, Abbott, T; et al. 2022, Phys Review D, 105, 26
- *S_Tag: Supernova Tagging and Classification*, Davison, William, Parkinson, D., Tucker, B.E., 2022, ApJ, 925, 2
- *Dark energy survey year 3 results: Galaxy sample for BAO measurement*, Rosell, A; et al. 2022, MNRAS, 509, 778

- *The Dark Energy Survey supernova programme: modelling selection efficiency and observed core-collapse supernova contamination*, Vincenzi, M; et al. 2021, MNRAS, 505, 2819
- *OzDES Reverberation Mapping Programme: The first Mg ii lags from 5 yr of monitoring*, Yu, Z; et al. 2021, MNRAS, 507, 3771
- *The Gravity Collective: A Search for the Electromagnetic Counterpart to the Neutron Star-Black Hole Merger GW190814*, Kilpatrick, C; et al. 2021, ApJ, 923, 2
- *SN 2018agk: A Prototypical Type Ia Supernova with a Smooth Power-law Rise in Kepler (K2)*, Wang, Q; et al. 2021, ApJ, 923, 2
- *Archival Weather Conditions at Siding Spring Observatory*, **Abbot, H**; et al. 2021, PASP, 133, 1
- *SN2017jgh - A high-cadence complete shock cooling lightcurve of a SN Iib with the Kepler telescope*, **Armstrong, P**; Tucker, B.E. ; et al., 2021,MNRAS, 507, 3125
- *Rates and delay times of Type Ia supernovae in the Dark Energy Survey*, Wiseman, P; et al., 2021, MNRAS, 506, 3330
- *Understanding the extreme luminosity of DES14X2fna*, Grayling, M; et al., 2021, MNRAS, 505, 3950
- *The Dark Energy Survey supernova programme: modeling selection efficiency and observed core-collapse supernova contamination*, Vincenzi, M; et al., 2021, MNRAS, 505, 2819
- *A revised SALT2 surface for fitting Type Ia supernova light curves*, **Taylor, G**; Lidman, C; Tucker, B.E.; et al., 2021, MNRAS, 504, 4111
- *The first Hubble diagram and cosmological constraints using superluminous supernovae*, Inserra, C; et al., 2021, MNRAS, 504, 2535
- *Surveying the transient sky in the NUV*, **Abbott, Harrison**; Mathew, Joice; Tucker, Brad; et al., 2021, COSP, 43, 1553
- *GLUV Pathfinder: setting up for rapid cadence UV monitoring of the transient universe*, **Abbott, Harrison**; Mathew, Joice; Tucker, Brad; et al., 2020, SPIE, 11444
- *Candidate periodically variable quasars from the Dark Energy Survey and the Sloan Digital Sky Survey*, Chen, Yu-Ching; et al., 2020, MNRAS, 499, 2245
- *An outflow powers the optical rise of the nearby, fast-evolving tidal disruption event AT2019qiz*, Nicholl, M; et al., 2020, MNRAS, 499, 482
- *The host galaxies of 106 rapidly evolving transients discovered by the Dark Energy Survey*, Wiseman, P; et al., 2020, MNRAS, 498, 2575
- *K2: Background Survey - the search for undiscovered transients in Kepler/K2 data*, **Ridden-Harper, R**; Tucker, B.E.; et al., 2020, MNRAS, 498, 33
- *Weak lensing of Type Ia Supernovae from the Dark Energy Survey*, Macaulay, E; et al., 2020, MNRAS, 496, 4051
- *First Cosmology Results using Supernovae Ia from the Dark Energy Survey: Survey Overview, Performance, and Supernova Spectroscopy*, Smith, M; et al., 2020, AJ, 160, 267
- *Dark Energy Survey identification of a low-mass active galactic nucleus at redshift 0.823 from optical variability*, Guo, H; et al., 2020, MNRAS, 496, 3636
- *DES16C3cje: A low-luminosity, long-lived supernova*, Gutierrez, C.P.; et al., 2020, MNRAS, 496, 95
- *OzDES multi-object fibre spectroscopy for the Dark Energy Survey: results and second data release*, Lidman, C; Tucker, B.E.; et al., 2020, MNRAS, 496, 19
- *Studying Type II supernovae as cosmological standard candles using the Dark Energy Survey*, de Jaeger, T; et al., 2020, MNRAS, 495, 4860

- *Supernova host galaxies in the dark energy survey: I. Deep coadds, photometry, and stellar masses*, Wiseman, P.; et al., 2020, MNRAS, 495, 4040
- *The mystery of photometric twins DES17X1boj and DES16E2bjy*, Pursiainen, M.; et al., 2020, MNRAS, 494, 5576
- *First cosmology results using type Ia supernovae from the Dark Energy Survey: the effect of host galaxy properties on supernova luminosity*, Smith, M.; et al., 2020, MNRAS, 494, 4426
- *Supernova Siblings: Assessing the Consistency of Properties of Type Ia Supernovae that Share the Same Parent Galaxies*, Smith, M.; et al., 2020, ApJ, 896, 13
- *GLUV Pathfinder mission*, **K. Nirmal; Abbott, Harrison**; Mathew, Joice; Tucker, Brad; et al., 2020, SPIE, 11203
- *Quasar Accretion Disk Sizes from Continuum Reverberation Mapping in the DES Standard-star Fields*, Yu, Zhefu.; et al., 2020, ApJS, 246, 16
- *DASH: Deep Learning for the Automated Spectral Classification of Supernovae and Their Hosts*, **Muthukrishna, Daniel**; Parkinson, David; Tucker, Brad E., 2019, ApJ, 885, 85
- *Discovery of a new WZ Sagittae-type cataclysmic variable in the Kepler/K2 data*, **Ridden-Harper, R.**; Tucker, B. E., 2019, MNRAS, 490, 5551
- *SN1991bg-like supernovae are associated with old stellar populations*, Panther, Fiona H., 2019, PASA, 36, 31
- *C IV black hole mass measurements with the Australian Dark Energy Survey (OzDES)*, Hoorman, J.K.; et al., 2019, MNRAS, 487, 3650
- *First Results of the SkyMapper Transient Survey*, Moller, A.; Tucker, B. E., 2019, IAUS, 339, 3
- *First cosmological results using Type Ia supernovae from the Dark Energy Survey: measurement of the Hubble constant*, Macaulay, E.; et al., 2019, MNRAS, 486, 2184
- *First cosmology results using Type IA supernovae from the dark energy survey: effects of chromatic corrections to supernova photometry on measurements of cosmological parameters*, Lasker, J.; et al., 2019, MNRAS, 485, 5329
- *First cosmology results using Type Ia supernova from the Dark Energy Survey: simulations to correct supernova distance biases*, Kessler, R.; et al., 2019, MNRAS, 485, 1171
- *Cosmological Constraints from Multiple Probes in the Dark Energy Survey*, Abbott, T.M.; et al., 2019, PHRvL, 122, 1301
- *First Cosmology Results Using SNe Ia from the Dark Energy Survey: Analysis, Systematic Uncertainties, and Validation*, Brout, D.; et al., 2019, ApJ, 874, 150
- *First Cosmology Results Using Type Ia Supernovae from the Dark Energy Survey: Photometric Pipeline and Light-curve Data Release*, Brout, D.; et al., 2019, ApJ, 874, 106
- *First Cosmology Results using Type Ia Supernovae from the Dark Energy Survey: Constraints on Cosmological Parameters*, Abbott, T. M.; et al., 2019, ApJ, 872, 30
- *Probing type Ia supernova properties using bolometric light curves from the Carnegie Supernova Project and the CfA Supernova Group*, Scalzo, R. A.; et al., 2019, MNRAS, 483, 628
- *Nebular Spectroscopy of Kepler-Ös Brightest Supernova*, Dimitriadis, G; et al., 2019, ApJ, 870, 14
- *K2 Observations of SN 2018oh Reveal a Two-component Rising Light Curve for a Type Ia Supernova*, Dimitriadis, G; et al., 2019, ApJ, 870, 1
- *Seeing Double: ASASSN-18bt Exhibits a Two-component Rise in the Early-time K2 Light Curve*, Shappee, B. J.; et al., 2019, ApJ, 870, 13

- *Photometric and Spectroscopic Properties of Type Ia Supernova 2018oh with Early Excess Emission from the Kepler 2 Observations*, Li, W.; et al., 2019, ApJ, 870, 12
- *Rapidly evolving transients in the Dark Energy Survey*, Pursiainen, M.; et al., 2018, MNRAS, 481, 894
- *A nearby super-luminous supernova with a long pre-maximum and "plateau" and strong C II features*, Anderson, J.P.; et al., 2018, AA, 620, 67
- *DES science portal: Computing photometric redshifts*, Gschwend, J.; et al., 2018, AC, 25, 58
- *Dark Energy Survey year 1 results: Cosmological constraints from galaxy clustering and weak lensing*, Abbott, T.M.; et al., 2018, PhRvD, 98, 3526
- *Dark Energy Survey year 1 results: Galaxy clustering for combined probes*, Elvin-Poole, J.; et al., 2018, PhRvD, 98, 2006
- *FRB microstructure revealed by the real-time detection of FRB170827*, Farah, W.; et al., 2018, MNRAS, 478, 1209
- *Dark Energy Survey Year 1 Results: redshift distributions of the weak-lensing source galaxies*, Hoyle, B.; et al., 2018, MNRAS, 478, 592
- *Dark Energy Survey Year 1 results: cross-correlation redshifts - methods and systematics characterization*, Gatti, M.; et al., 2018, MNRAS, 477, 1664
- *SN 2012fr: Ultraviolet, Optical, and Near-infrared Light Curves of a Type Ia Supernova Observed within a Day of Explosion*, Contreras, Carlos; et al., 2018, ApJ, 859, 24
- *Quasar Accretion Disk Sizes With Continuum Reverberation Mapping From the Dark Energy Survey*, Mudd, D; et al., 2018, ApJ, 862, 123
- *A Fast-Evolving, Luminous Transient Discovered by K2/Kepler*, Rest, A.; Garnavich, P. M.; Tucker, B. E.; et al., 2018, Nature Astronomy, 2, 307
- *New Parallaxes of Galactic Cepheids from Spatially Scanning the Hubble Space Telescope: Implications for the Hubble Constant*, Riess, A. G., et al.; 2018, ApJ, 855, 136
- *On the nature of Hydrogen-rich Superluminous Supernovae*, Inserra, C. et al.; 2018, ApJ, 820, 23
- *Follow Up of GW170817 and Its Electromagnetic Counterpart by Australian-Led Observing Programmes*, Andreoni, I.; et al.; 2017, PASA, 34, 69
- *Capability of detecting ultraviolet counterparts of gravitational waves with GLUV*, Ridden-Harper, R., Tucker, B. E.; et al., 2017, MNRAS, 472, 4521
- *Convolutional neural networks for transient candidate vetting in large-scale surveys*, Gieseke, Fabian, et al.; 2017, MNRAS, 472, 3101
- *OzDES multifibre spectroscopy for the Dark Energy Survey: 3-yr results and first data release*, Childress, M. J.; Lidman, C.; Davis, T. M.; Tucker, B. E.; et al.; 2017, MNRAS, 472, 273
- *Multi-messenger Observations of a Binary Neutron Star Merger*, Abbott, B. P.; et al.; 2017, ApJ, 848, 12
- *Dark Energy Survey Year 1 Results: Cross-Correlation Redshifts - Methods and Systematics Characterization*, Gatti, M.; et al.; 2017, ApJ
- *DES Science Portal: I - Computing Photometric Redshifts*, Gschwend, Julia; et al.; 2017, Astronomy & Computing
- *Dark Energy Survey Year 1 Results: Galaxy clustering for combined probes*, Elvin-Poole, J.; et al.; 2017, ApJ
- *Dark Energy Survey Year 1 Results: Redshift distributions of the weak lensing source galaxies*, Hoyle, B.; et al.; 2017, MNRAS
- *Dark Energy Survey Year 1 Results: Cosmological Constraints from Galaxy Clustering and Weak Lensing*, DES Collaboration; et al.; 2017, ApJ

- *The SkyMapper Transient Survey*, Scalzo, R. A.; Yuan, F.; Childress, M. J.; Miller, A.; Schmidt, B. P.; Tucker, B. E.; et al.; 2017, PASA, 34, 30
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