Tim Eifler CV

Steward Observatory
Room 312
933 N. Cherry Avenue
Tucson, AZ 85721

timeifler@.arizona.edu

phone: (520) 621-6524

Employment

Since Aug '18	**Assistant Professor of Astronomy**, University of Arizona
April '14 – Aug '18	**Staff Scientist (Level III),** NASA-Jet Propulsion Laboratory/California Institute of Technology
	Visiting Associate in Physics, California Institute of Technology
March '12 - March '14	**Postdoctoral Researcher,** University of Pennsylvania
Sept '09 - March '12	**CCAPP postdoctoral Fellow,** Ohio State University'

Education

Feb '09	**PhD in Astronomy** (Dr. rer. nat.), University of Bonn
'06 – '09	Member of the International Max Planck Research School of Astronomy and Astrophysics (MPIfR Bonn)
March '05	"**Diplom" in Physics**, University of Bonn

Professional Activities

- **Rubin Observatory LSST-DESC** (Legacy Survey of Space and Time-Dark Energy Science Collaboration)
  - Member DESC Operations Committee (since Jan 2019)
  - Co-Convener "Weak Lensing Working Group" (Nov 2017-Dec 2019)
  - Task Force lead "Advanced Statistical Methods for Cosmological Parameter Inference" (2015-2017)
  - Full Member since 2015 (access to DESC science products)

- **DES** (Dark Energy Survey)**:**
  - Co-Convener "Theory and Combined Probes Working Group" (since Feb 2019)
  - Coordinator DES analysis team: "Developing Multi-Probe Analysis Pipelines" (2015-2019)
  - Co-Lead DES Y6 Task Force: (Quantifying science gain of an extended DES survey) (2016)

- Builder and Associate Member (DES data rights, postdoc supervision rights at non-DES institutions, authorship rights on DES papers)
- Member of the DES Computing Requirements task force

- **Co-I Roman Space Telescoope Science Investigation Team** "Galaxy Redshift Survey Investigations" and "Weak Lensing and Cluster Growth Investigations"
  - Leading Task on "Cosmological Forecasts"
- **Co-I SuperBIT** (Super-pressure Balloon-borne Imaging Telescope) mission, NASA APRA funded, launch 2022)
- **Science Team Member SPHEREx mission** (NASA Mid-Ex mission selected for launch in 2024)
- **Principal Developer of the CosmoLike Multi-Probe Analysis Framework:** CosmoLike is used for the DES data analysis and the LSST-DESC and Roman Space Telescope Science Forecasts (https://github.com/CosmoLike)

INVITED TALKS/WORKSHOPS (SELECTED):

- Aspen Physics Center June 2014: "Combining Probes in Cosmological Surveys"
- Carnegie Mellon University, Pittsburgh, US April 2015: Invited talk (Astronomy seminar)
- Excellence Cluster Universe Munich, Germany, June 2015: Invited colloquium
- UC Davis Physics Department, Davis, CA, US, Dec 2015: Invited Physics seminar
- Korea Astronomy and Space Science Institute, Daejeon, Korea, April 2016: Invited talk on Cosmology with LSST at the ``Future Surveys and Big data" conference
- COSMO16, University of Michigan, Aug 8-12, 2016: Scientific Organizer of the session on "Future cosmological probes"
- Aspen Physics Center June 2016: "Testing the laws of gravity with cosmological surveys"
- International Biomedical and Astronomical Signal Processing (BASP) workshop, Switzerland, (Jan 29-Feb 3 2017, Scientific Organizer of the session on "Advanced Statistical Methods to extract Cosmological Information in the LSST Era"
- Stony Brook University, Stony Brook, NY, US, Feb 2017, invited Physics/Cosmology seminar
- Center for Computational Cosmology, New York, NY, US Feb 2017, invited colloquium
- University of Stockholm, Stockholm, Sweden, Feb 2017, invited Cosmology seminar
- University of Illinois, Urbana-Champaign, IL, US, Mar 2017, invited Physics seminar
- California Institute of Technology, Pasadena, Dark Matter in Southern California: Beyond WIMP Dark Matter conference, invited talk
- Aspen Physics Center June 2018: "Perfect Pixels. Accurate Astrophysics. Correct
- SnowPAC 2018 conference: Big Questions, Big Surveys, Big Data: Astronomy & Cosmology in the 2020s, March 2018, 1) organizing session on "Software and Computing" . 2) Talk on "Simulation requirements for future cosmological surveys" in the Theory and Simulations session.
- University of Oxford, conference on "Statistical Challenges for Large-scale Structure in the Era of LSST" , invited speaker, April 2018

- Mainz Institute for Theoretical Physics, workshop on "Tensions in the LCDM paradigm", invited, May 2018
- 2nd World Summit on Exploring the Dark Side of the Universe conference, University of Antilles, Guadeloupe, invited/plenary speaker, June 2018
- Cosmology Seminar, UC Santa Cruz, invited, July 2018
- Physics Colloquium, University of Arizona, Jan 2019
- UCBerkeley, "Accurate lensing in the era of precision cosmology" invited talk, Jan 2019
- Lecturer at ICTP-SAIFR winter school "Observational Cosmology", Aug 2019
- UCBerkeley, "Spectroscopic Surveys – are we ready for the future" invited talk, Jan 2020
- 235 AAS meeting, special session talk, " Results from the Dark Energy Survey", Jan 2020
- Lecturer at "Cosmology Summer School (remote)", University of Michigan, June 2020

WORKSHOP/CONFERENCE ORGANIZER:

20th annual international Conference on Particle Physics and Cosmology (COSMO-16), session on " Cosmic Probes and Future Experiments"; SnowPAC 2018, session on " Software and Computing"; LSST Project and Community Workshop 2019 SOC; chair SOC LSSTC workshop on " Synergies of LSST and suborbital missions" Aug 2019; numerous sessions at DES and LSST-DESC meetings since 2011.

PANEL/PAPER REVIEWER:

DOE Office of Science Graduate Student Research Program; DOE ASCR Leadership Computing Challenge; Hubble Space Telescope Time Allocation Committee; NASA Postdoctoral Program; JPL mission concepts Red Team; NASA Astrophysics Theory Program; NSF Astronomy and Astrophysics; ERC starting grant; Referee for MNRAS and Apj since ' 10 and ' 12, respectively

TEACHING EXPERIENCE

2014	Co-instructor Astro 012 Course, "Introduction to Astrophysics II", (University of Pennsylvania)
2017/18	Organizer/Lecturer at "SURF cosmology school" within the JPL Astrophysics section for 15 Summer Undergraduate Research Fellowship interns, developed concept and curriculum and taught 2 lectures. (let to "JPL Voyager Award" in 2018)
2019 Spring	Instructor "The Physical Universe", Astro 170B, University of Arizona, astro minors and general education level
2020 Spring	Instructor "Computational Physics", Physics305, University of Arizona, physics majors level
2020 Fall	Instructor "Extragalactic Astronomy and Cosmology", Astro541, University of Arizona, PhD level
2021 Spring	Instructor "Data Mining and Machine Learning in Astronomy" Astro 502, University of Arizona, PhD level

GRANTS/AWARDS:

DOE Early Career Award 2019
Multi-Probe Cosmology with DES and LSST
PI: Tim Eifler (2019-2024)

NASA ROSES Astrophysics Theory Program
Kinematic Weak Lensing with space missions and ground-based surveys
PI: Tim Eifler (2017-2022)

NASA ROSES Astrophysics Theory Program
Modeling the Universe – Interfacing Numerical Simulations, Theory, Statistical Methods, and Observations
PI: Tim Eifler (2016-2021)

NASA ROSES Astrophysics Data Analysis Program
Analyzing Planck and low redshift data sets with advanced statistical methods
PI: Tim Eifler (2016-2021)

DOE/DES operations
Science Infrastructure for the Dark Energy Survey
PI: Tim Eifler (2018/19)

Jet Propulsion Laboratory Research and Technology Development Fund
Exploring fundamental physics with multiple observables and data sets
PI: Tim Eifler (2018/19)

Jet Propulsion Laboratory Voyager Award 2018

NASA Keck Observations Program
Kinematic Weak Lensing – A Pilot Study
PI: Tim Eifler (2016)

NASA ROSES Astrophysics Research and Analysis Program
SuperBIT: Wide-field, Sub-arcsecond Imaging from the Super-Pressure Balloon Platform
PI: William Jones (Princeton), (2016-2020), Co-I: Tim Eifler

NASA WFIRST Science Investigation Teams
PI: Olivier Dore (JPL), (2016-2022), Tim Eifler is Co-I and UofA institutional PI

NASA SPHEREx Science Investigation Teams
PI: Olivier Dore (JPL), (2021-2026), Co-I: Tim Eifler

Jet Propulsion Laboratory Strategic University Partnership
Eppur Si Muove
JPL-PI: Eric Huff, University PI: Tim Eifler (2019-2021)

Publications: 242 publications (201 refereed, 42 non-refereed) with a total of 15664 citations (14778 refereed), h-index=56 (h-index=56 refereed) according to NASA/ADS Metrics Summary (date 7/27/2021)

Lead author or major contribution (Refereed)

1. Eifler, T., Miyatake, H., Krause, E., Heinrich, C., Miranda, V., Hirata, C., et al., Cosmology with the roman space telescope - multi-probe strategies, Monthly Notices of the Royal Astronomical Society, (2021)

2. To, C., Krause, E., Rozo, E., Wu, H., Gruen, D., Wechsler, R. H., et al., Dark Energy Survey Year 1 Results: Cosmological Constraints from Cluster Abundances, Weak Lensing, and Galaxy Correlations, Physical Review Letters, 126, 141301, (2021)

3. Huang, H.-J., Eifler, T., Mandelbaum, R., Bernstein, G. M., Chen, A., Choi, A., et al., Dark energy survey year 1 results: Constraining baryonic physics in the Universe, Monthly Notices of the Royal Astronomical Society, 502, 6010, (2021)

4. Eifler, T., Simet, M., Krause, E., Hirata, C., Huang, H.-J., Fang, X., et al., Cosmology with the Roman Space Telescope - synergies with the Rubin Observatory Legacy Survey of Space and Time, Monthly Notices of the Royal Astronomical Society, (2021)

5. Lin, C.-H., Harnois-Déraps, J., Eifler, T., Pospisil, T., Mandelbaum, R., Lee, A. B., et al., Non-Gaussianity in the weak lensing correlation function likelihood - implications for cosmological parameter biases, Monthly Notices of the Royal Astronomical Society, 499, 2977, (2020)

6. Porredon, A., Crocce, M., Fosalba, P., Elvin-Poole, J., Carnero Rosell, A., Cawthon, R., et al., Dark Energy Survey Year 3 results: Optimizing the lens sample in a combined galaxy clustering and galaxy-galaxy lensing analysis, Physical Review D, 103, 043503, (2021)

7. Fang, X., Eifler, T., & Krause, E., 2D-FFTLog: efficient computation of real-space covariance matrices for galaxy clustering and weak lensing, Monthly Notices of the Royal Astronomical Society, 497, 2699, (2020)

8. Fang, X., Krause, E., Eifler, T., & MacCrann, N., Beyond Limber: efficient computation of angular power spectra for galaxy clustering and weak lensing, Journal of Cosmology and Astroparticle Physics, 2020, 010, (2020)

9. Romualdez, L. J., Benton, S. J., Brown, A. M., Clark, P., Damaren, C. J., Eifler, T., et al., Robust diffraction-limited near-infrared-to-near-ultraviolet wide-field imaging from stratospheric balloon-borne platforms—Super-pressure Balloon-borne Imaging Telescope performance, Review of Scientific Instruments, 91, 034501, (2020)

10. Samuroff, S., Blazek, J., Troxel, M. A., MacCrann, N., Krause, E., Leonard, C. D., et al., Dark Energy Survey Year 1 results: constraints on intrinsic alignments and their colour dependence from galaxy clustering and weak lensing, Monthly Notices of the Royal Astronomical Society, 489, 5453, (2019)

11. Huang, H.-J., Eifler, T., Mandelbaum, R., & Dodelson, S., Modelling baryonic physics in future weak lensing surveys, Monthly Notices of the Royal Astronomical Society, 488, 1652, (2019)

12. Abbott, T. M. C., Abdalla, F. B., Avila, S., Banerji, M., Baxter, E., Bechtol, K., et al., Dark Energy Survey year 1 results: Constraints on extended cosmological models from galaxy clustering and weak lensing, Physical Review D, 99, 123505, (2019)

13. Abbott, T. M. C., Abdalla, F. B., Alarcon, A., Allam, S., Annis, J., Avila, S., et al., Dark Energy Survey year 1 results: Joint analysis of galaxy clustering, galaxy lensing, and CMB lensing two-point functions, Physical Review D, 100, 023541, (2019)

14. Abbott, T. M. C., Alarcon, A., Allam, S., Andersen, P., Andrade-Oliveira, F., Annis, J., et al., Cosmological Constraints from Multiple Probes in the Dark Energy Survey, Physical Review Letters, 122, 171301, (2019)

15. Huang, H.-J., Eifler, T., Mandelbaum, R., & Dodelson, S., Modelling baryonic physics in future weak lensing surveys, Monthly Notices of the Royal Astronomical Society, 488, 1652, (2019)

16. Chang, C., Wang, M., Dodelson, S., Eifler, T., Heymans, C., Jarvis, M., et al., A unified analysis of four cosmic shear surveys, Monthly Notices of the Royal Astronomical Society, 482, 3696, (2019)

17. Troxel, M. A., Krause, E., Chang, C., Eifler, T. F., Friedrich, O., Gruen, D., et al., Survey geometry and the internal consistency of recent cosmic shear measurements, Monthly Notices of the Royal Astronomical Society, 479, 4998, (2018)

18. Krause, E., & Eifler, T., cosmolike - cosmological likelihood analyses for photometric galaxy surveys, Monthly Notices of the Royal Astronomical Society, 470, 2100, (2017)

19. Troxel, M. A., MacCrann, N., Zuntz, J., Eifler, T. F., Krause, E., Dodelson, S., et al., Dark Energy Survey Year 1 results: Cosmological constraints from cosmic shear, Physical Review D, 98, 043528, (2018)

20. Abbott, T. M. C., Abdalla, F. B., Alarcon, A., Aleksić, J., Allam, S., Allen, S., et al., Dark Energy Survey year 1 results: Cosmological constraints from galaxy clustering and weak lensing, Physical Review D, 98, 043526, (2018)

21. Elvin-Poole, J., Crocce, M., Ross, A. J., Giannantonio, T., Rozo, E., Rykoff, E. S., et al., Dark Energy Survey year 1 results: Galaxy clustering for combined probes, Physical Review D, 98, 042006, (2018)

22. Schrabback, T., Schirmer, M., van der Burg, R. F. J., Hoekstra, H., Buddendiek, A., Applegate, D., et al., Precise weak lensing constraints from deep high-resolution K_s images: VLT/HAWK-I analysis of the super-massive galaxy cluster RCS2 J 232727.7-020437 at z = 0.70, Astronomy and Astrophysics, 610, A85, (2018)

23. Friedrich, O., & Eifler, T., Precision matrix expansion - efficient use of numerical simulations in estimating errors on cosmological parameters, Monthly Notices of the Royal Astronomical Society, 473, 4150, (2018)

24. Schaan, E., Krause, E., Eifler, T., Doré, O., Miyatake, H., Rhodes, J., et al., Looking through the same lens: Shear calibration for LSST, Euclid, and WFIRST with stage 4 CMB lensing, Physical Review D, 95, 123512, (2017)

25. Becker, M. R., Troxel, M. A., MacCrann, N., Krause, E., Eifler, T. F., Friedrich, O., et al., Cosmic shear measurements with Dark Energy Survey Science Verification data, Physical Review D, 94, 022002, (2016)

26. Abbott, T., Abdalla, F. B., Allam, S., Amara, A., Annis, J., Armstrong, R., et al., Cosmology from cosmic shear with Dark Energy Survey Science Verification data, Physical Review D, 94, 022001, (2016)

27. Friedrich, O., Seitz, S., Eifler, T. F., & Gruen, D., Performance of internal covariance estimators for cosmic shear correlation functions, Monthly Notices of the Royal Astronomical Society, 456, 2662, (2016)

28. Krause, E., Eifler, T., & Blazek, J., The impact of intrinsic alignment on current and future cosmic shear surveys, Monthly Notices of the Royal Astronomical Society, 456, 207, (2016)

29. Buddendiek, A., Schrabback, T., Greer, C. H., Hoekstra, H., Sommer, M., Eifler, T., et al., Optical and Sunyaev-Zel'dovich observations of a new sample of distant rich galaxy clusters in the ROSAT All Sky, Monthly Notices of the Royal Astronomical Society, 450, 4248, (2015)

30. Eifler, T., Krause, E., Dodelson, S., Zentner, A. R., Hearin, A. P., & Gnedin, N. Y., Accounting for baryonic effects in cosmic shear tomography: determining a minimal set of nuisance parameters using PCA, Monthly Notices of the Royal Astronomical Society, 454, 2451, (2015)

31. Eifler, T., Krause, E., Schneider, P., & Honscheid, K., Combining probes of large-scale structure with COSMOLIKE, Monthly Notices of the Royal Astronomical Society, 440, 1379, (2014)

32. Huff, E. M., Eifler, T., Hirata, C. M., Mandelbaum, R., Schlegel, D., & Seljak, U., Seeing in the dark - II. Cosmic shear in the Sloan Digital Sky Survey, Monthly Notices of the Royal Astronomical Society, 440, 1322, (2014)

33. Zentner, A. R., Semboloni, E., Dodelson, S., Eifler, T., Krause, E., & Hearin, A. P., Accounting for baryons in cosmological constraints from cosmic shear, Physical Review D, 87, 043509, (2013)

34. Kitching, T. D., Balan, S. T., Bridle, S., Cantale, N., Courbin, F., Eifler, T., et al., Image analysis for cosmology: results from the GREAT10 Galaxy Challenge, Monthly Notices of the Royal Astronomical Society, 423, 3163, (2012)

35. Krause, E., Schneider, P., & Eifler, T., A new third-order cosmic shear statistic: separating E-/B-mode correlations on a finite interval, Monthly Notices of the Royal Astronomical Society, 423, 3011, (2012)

36. Vanderveld, R. A., Mortonson, M. J., Hu, W., & Eifler, T., Testing dark energy paradigms with weak gravitational lensing, Physical Review D, 85, 103518, (2012)

37. Eifler, T., Weak-lensing statistics from the Coyote Universe, Monthly Notices of the Royal Astronomical Society, 418, 536, (2011)

38. Schneider, P., Eifler, T., & Krause, E., COSEBIs: Extracting the full E-/B-mode information from cosmic shear correlation functions, Astronomy and Astrophysics, 520, A116, (2010)

39. Schrabback, T., Hartlap, J., Joachimi, B., Kilbinger, M., Simon, P., Benabed, K., et al., Evidence of the accelerated expansion of the Universe from weak lensing tomography with COSMOS, Astronomy and Astrophysics, 516, A63, (2010)

40. Eifler, T., Schneider, P., & Krause, E., Measuring cosmic shear with the ring statistics, Astronomy and Astrophysics, 510, A7, (2010)

41. Eifler, T., Schneider, P., & Hartlap, J., Dependence of cosmic shear covariances on cosmology. Impact on parameter estimation, Astronomy and Astrophysics, 502, 721, (2009)

42. Eifler, T., Kilbinger, M., & Schneider, P., Comparing cosmic shear measures. Optimizing the information content of cosmic shear data vectors, Astronomy and Astrophysics, 482, 9, (2008)

43. Joachimi, B., Schneider, P., & Eifler, T., Analysis of two-point statistics of cosmic shear. III. Covariances of shear measures made easy, Astronomy and Astrophysics, 477, 43, (2008)

44. Schrabback, T., Erben, T., Simon, P., Miralles, J.-M., Schneider, P., Heymans, C., et al., Cosmic shear analysis of archival HST/ACS data. I. Comparison of early ACS pure parallel data to the HST/GEMS survey, Astronomy and Astrophysics, 468, 823, (2007)

45. Hildebrandt, H., Pielorz, J., Erben, T., Schneider, P., Eifler, T., Simon, P., et al., GaBoDS: the Garching-Bonn deep survey. VIII. Lyman-break galaxies in the ESO deep public survey, Astronomy and Astrophysics, 462, 865, (2007)

46. Kilbinger, M., Schneider, P., & Eifler, T., E- and B-mode mixing from incomplete knowledge of the shear correlation, Astronomy and Astrophysics, 457, 15, (2006)

Lead author or major contribution (non-Refereed)

1. Fang, X., Eifler, T., Schaan, E., Huang, H.-J., Krause, E., & Ferraro, S., Cosmology from Clustering, Cosmic Shear, CMB Lensing, and Cross Correlations: Combining Rubin Observatory and Simons Observatory, arXiv e-prints, arXiv:2108.00658, (2021)

2. DES Collaboration, Abbott, T. M. C., Aguena, M., Alarcon, A., Allam, S., Alves, O., Amon, et al., Dark Energy Survey Year 3 Results: Cosmological Constraints from Galaxy Clustering and Weak Lensing, arXiv e-prints, arXiv:2105.13549, (2021)

3. Krause, E., Fang, X., Pandey, S., Secco, L. F., Alves, O., Huang, H., et al., Dark Energy Survey Year 3 Results: Multi-Probe Modeling Strategy and Validation, arXiv e-prints, arXiv:2105.13548, (2021)

4. Alonso, D., Calabrese, E., Eifler, T., Fabbian, G., Ferraro, S., Gawiser, E., et al., Combining information from multiple cosmological surveys: inference and modeling challenges, arXiv e-prints, arXiv:2103.05320, (2021)

5. Friedrich, O., Andrade-Oliveira, F., Camacho, H., Alves, O., Rosenfeld, R., Sanchez, J., et al., Dark Energy Survey Year 3 Results: Covariance Modelling and its Impact on Parameter Estimation and Quality of Fit, arXiv e-prints, arXiv:2012.08568, (2020)

6. Battaglia, N., Benson, A., Eifler, T., Hearin, A., Heitmann, K., Ho, S., et al., Report from the Tri-Agency Cosmological Simulation Task Force, arXiv e-prints, arXiv:2005.07281, (2020)

7. Lochner, M., Scolnic, D. M., Awan, H., Regnault, N., Gris, P., Mandelbaum, R., et al., Optimizing the LSST Observing Strategy for Dark Energy Science: DESC Recommendations for the Wide-Fast-Deep Survey, arXiv e-prints, arXiv:1812.00515, (2018)

8. The LSST Dark Energy Science Collaboration, Mandelbaum, R., Eifler, T., Hložek, R., Collett, T., Gawiser, E., Scolnic, et al., The LSST Dark Energy Science Collaboration (DESC) Science Requirements Document, arXiv e-prints, arXiv:1809.01669, (2018)

9. Romualdez, L. J., Benton, S. J., Brown, A. M., Clark, P., Damaren, C. J., Eifler, T., et al., Overview, design, and flight results from SuperBIT: a high-resolution, wide-field, visible-to-near-UV balloon-borne astronomical telescope, Ground-based and Airborne Instrumentation for Astronomy VII, 10702, 107020R, (2018)

10. Doré, O., Hirata, C., Wang, Y., Weinberg, D., Baronchelli, I., Benson, A., et al., WFIRST Science Investigation Team "Cosmology with the High Latitude Survey" Annual Report 2017, arXiv e-prints, arXiv:1804.03628, (2018)

11. Krause, E., Eifler, T. F., Zuntz, J., Friedrich, O., Troxel, M. A., Dodelson, S., et al., Dark Energy Survey Year 1 Results: Multi-Probe Methodology and Simulated Likelihood Analyses, arXiv e-prints, arXiv:1706.09359, (2017)

12. Romualdez, L. J., Benton, S. J., Clark, P., Damaren, C. J., Eifler, T., Fraisse, A. A., et al., The design and development of a high-resolution visible-to-near-UV telescope for balloon-borne astronomy: SuperBIT, arXiv e-prints, arXiv:1608.02502, (2016)

13. Huff, E. M., Krause, E., Eifler, T., Fang, X., George, M. R., & Schlegel, D., Cosmic shear without shape noise, arXiv e-prints, arXiv:1311.1489, (2013)

Minor contributions or co-author through builder status (Refereed)

1. Lemos, P., Raveri, M., Campos, A., Park, Y., Chang, C., Weaverdyck, N., et al., Assessing tension metrics with dark energy survey and Planck data, Monthly Notices of the Royal Astronomical Society, 505, 6179, (2021)

2. Myles, J., Alarcon, A., Amon, A., Sánchez, C., Everett, S., DeRose, J., et al., Dark Energy Survey Year 3 results: redshift calibration of the weak lensing source galaxies, Monthly Notices of the Royal Astronomical Society, 505, 4249, (2021)

3. Chen, A., Huterer, D., Lee, S., Ferté, A., Weaverdyck, N., Alves, O., et al., Constraints on dark matter to dark radiation conversion in the late universe with DES-Y1 and external data, Physical Review D, 103, 123528, (2021)

4. Inserra, C., Sullivan, M., Angus, C. R., Macaulay, E., Nichol, R. C., Smith, M., et al., The first Hubble diagram and cosmological constraints using superluminous supernovae, Monthly Notices of the Royal Astronomical Society, 504, 2535, (2021)

5. Grandis, S., Mohr, J. J., Costanzi, M., Saro, A., Bocquet, S., Klein, M., et al., Exploring the contamination of the DES-Y1 cluster sample with SPT-SZ selected clusters, Monthly Notices of the Royal Astronomical Society, 504, 1253, (2021)

6. To, C.-H., Krause, E., Rozo, E., Wu, H.-Y., Gruen, D., DeRose, J., et al., Combination of cluster number counts and two-point correlations: validation on mock Dark Energy Survey, Monthly Notices of the Royal Astronomical Society, 502, 4093, (2021)

7. Costanzi, M., Saro, A., Bocquet, S., Abbott, T. M. C., Aguena, M., Allam, S., et al., Cosmological constraints from DES Y1 cluster abundances and SPT multiwavelength data, Physical Review D, 103, 043522, (2021)

8. Tanoglidis, D., Drlica-Wagner, A., Wei, K., Li, T. S., Sánchez, J., Zhang, Y., et al., Shadows in the Dark: Low-surface-brightness Galaxies Discovered in the Dark Energy Survey, The Astrophysical Journal Supplement Series, 252, 18, (2021)

9. Romualdez, L. J., Benton, S. J., Brown, A. M., Clark, P., Damaren, C. J., Eifler, T., et al., Publisher's Note: "Robust diffraction-limited near-infrared-to-near-ultraviolet wide-field imaging from stratospheric balloon-borne Platforms—Super-pressure Balloon-borne Imaging Telescope performance" [Rev. Sci. Instrum. 91, 034501 (2020)], Review of Scientific Instruments, 92, 019901, (2021)

10. Liao, W.-T., Chen, Y.-C., Liu, X., Holgado, A. M., Guo, H., Gruendl, R., et al., Discovery of a candidate binary supermassive black hole in a periodic quasar from circumbinary accretion variability, Monthly Notices of the Royal Astronomical Society, 500, 4025, (2021)

11. Vielzeuf, P., Kovács, A., Demirbozan, U., Fosalba, P., Baxter, E., Hamaus, N., et al., Dark Energy Survey Year 1 results: the lensing imprint of cosmic voids on the cosmic microwave background, Monthly Notices of the Royal Astronomical Society, 500, 464, (2021)

12. dal Ponte, M., Santiago, B., Carnero Rosell, A., Burningham, B., Yanny, B., Marshall, J. L., et al., Increasing the census of ultracool dwarfs in wide binary and multiple systems using Dark Energy Survey DR1 and Gaia DR2 data, Monthly Notices of the Royal Astronomical Society, 499, 5302, (2020)

13. Smith, M., D'Andrea, C. B., Sullivan, M., Möller, A., Nichol, R. C., Thomas, R. C., et al., First Cosmology Results using Supernovae Ia from the Dark Energy Survey: Survey Overview, Performance, and Supernova Spectroscopy, The Astronomical Journal, 160, 267, (2020)

14. Gill, A., Benton, S. J., Brown, A. M., Clark, P., Damaren, C. J., Eifler, T., et al., Optical Night Sky Brightness Measurements from the Stratosphere, The Astronomical Journal, 160, 266, (2020)

15. Gatti, M., Chang, C., Friedrich, O., Jain, B., Bacon, D., Crocce, M., et al., Dark Energy Survey Year 3 results: cosmology with moments of weak lensing mass maps - validation on simulations, Monthly Notices of the Royal Astronomical Society, 498, 4060, (2020)

16. Buckley-Geer, E. J., Lin, H., Rusu, C. E., Poh, J., Palmese, A., Agnello, A., et al., STRIDES: Spectroscopic and photometric characterization of the environment and effects of mass

along the line of sight to the gravitational lenses DES J0408-5354 and WGD 2038-4008, Monthly Notices of the Royal Astronomical Society, 498, 3241, (2020)

17. Grandis, S., Klein, M., Mohr, J. J., Bocquet, S., Paulus, M., Abbott, T. M. C., et al., Validation of selection function, sample contamination and mass calibration in galaxy cluster samples, Monthly Notices of the Royal Astronomical Society, 498, 771, (2020)

18. Herner, K., Annis, J., Brout, D., Soares-Santos, M., Kessler, R., Sako, M., et al., Optical follow-up of gravitational wave triggers with DECam during the first two LIGO/VIRGO observing runs, Astronomy and Computing, 33, 100425, (2020)

19. Eckert, K., Bernstein, G. M., Amara, A., Amon, A., Choi, A., Everett, S., et al., Noise from undetected sources in Dark Energy Survey images, Monthly Notices of the Royal Astronomical Society, 497, 2529, (2020)

20. Pieres, A., Girardi, L., Balbinot, E., Santiago, B., da Costa, L. N., Carnero Rosell, A., et al., Modelling the Milky Way - I. Method and first results fitting the thick disc and halo with DES-Y3 data, Monthly Notices of the Royal Astronomical Society, 497, 1547, (2020)

21. Morgan, R., Soares-Santos, M., Annis, J., Herner, K., Garcia, A., Palmese, A., et al., Constraints on the Physical Properties of GW190814 through Simulations Based on DECam Follow-up Observations by the Dark Energy Survey, The Astrophysical Journal, 901, 83, (2020)

22. Guo, H., Burke, C. J., Liu, X., Phadke, K. A., Zhang, K., Chen, Y.-C., et al., Dark Energy Survey identification of a low-mass active galactic nucleus at redshift 0.823 from optical variability, Monthly Notices of the Royal Astronomical Society, 496, 3636, (2020)

23. Abbott, T. M. C., Aguena, M., Alarcon, A., Allam, S., Allen, S., Annis, J., et al., Dark Energy Survey Year 1 Results: Cosmological constraints from cluster abundances and weak lensing, Physical Review D, 102, 023509, (2020)

24. Gutiérrez, C. P., Sullivan, M., Martinez, L., Bersten, M. C., Inserra, C., Smith, M., et al., DES16C3cje: A low-luminosity, long-lived supernova, Monthly Notices of the Royal Astronomical Society, 496, 95, (2020)

25. Lidman, C., Tucker, B. E., Davis, T. M., Uddin, S. A., Asorey, J., Bolejko, K., et al., OzDES multi-object fibre spectroscopy for the Dark Energy Survey: results and second data release, Monthly Notices of the Royal Astronomical Society, 496, 19, (2020)

26. de Jaeger, T., Galbany, L., González-Gaitán, S., Kessler, R., Filippenko, A. V., Förster, F., et al., Studying Type II supernovae as cosmological standard candles using the Dark Energy Survey, Monthly Notices of the Royal Astronomical Society, 495, 4860, (2020)

27. Wiseman, P., Smith, M., Childress, M., Kelsey, L., Möller, A., Gupta, R. R., et al., Supernova host galaxies in the dark energy survey: I. Deep coadds, photometry, and stellar masses, Monthly Notices of the Royal Astronomical Society, 495, 4040, (2020)

28. Hansen, T. T., Marshall, J. L., Simon, J. D., Li, T. S., Bernstein, R. A., Pace, A. B., et al., Chemical Analysis of the Ultrafaint Dwarf Galaxy Grus II. Signature of High-mass Stellar Nucleosynthesis, The Astrophysical Journal, 897, 183, (2020)

29. Zenteno, A., Hernández-Lang, D., Klein, M., Vergara Cervantes, C., Hollowood, D. L., Bhargava, S., et al., A joint SZ-X-ray-optical analysis of the dynamical state of 288 massive galaxy clusters, Monthly Notices of the Royal Astronomical Society, 495, 705, (2020)

30. Pursiainen, M., Gutiérrez, C. P., Wiseman, P., Childress, M., Smith, M., Frohmaier, C., et al., The mystery of photometric twins DES17X1boj and DES16E2bjy, Monthly Notices of the Royal Astronomical Society, 494, 5576, (2020)

31. Scolnic, D., Smith, M., Massiah, A., Wiseman, P., Brout, D., Kessler, R., et al., Supernova Siblings: Assessing the Consistency of Properties of Type Ia Supernovae that Share the Same Parent Galaxies, The Astrophysical Journal, 896, L13, (2020)

32. Muir, J., Bernstein, G. M., Huterer, D., Elsner, F., Krause, E., Roodman, A., et al., Blinding multiprobe cosmological experiments, Monthly Notices of the Royal Astronomical Society, 494, 4454, (2020)

33. Smith, M., Sullivan, M., Wiseman, P., Kessler, R., Scolnic, D., Brout, D., et al., First cosmology results using type Ia supernovae from the Dark Energy Survey: the effect of host galaxy properties on supernova luminosity, Monthly Notices of the Royal Astronomical Society, 494, 4426, (2020)

34. Lemon, C., Auger, M. W., McMahon, R., Anguita, T., Apostolovski, Y., Chen, G. C.-F., et al., The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2017/2018 follow-up campaign: discovery of 10 lensed quasars and 10 quasar pairs, Monthly Notices of the Royal Astronomical Society, 494, 3491, (2020)

35. Nord, B., Buckley-Geer, E., Lin, H., Kuropatkin, N., Collett, T., Tucker, D. L., et al., Observation and confirmation of nine strong-lensing systems in Dark Energy Survey Year 1 data, Monthly Notices of the Royal Astronomical Society, 494, 1308, (2020)

36. Sirks, E. L., Clark, P., Massey, R. J., Benton, S. J., Brown, A. M., Damaren, C. J., et al., Download by parachute: retrieval of assets from high altitude balloons, Journal of Instrumentation, 15, P05014, (2020)

37. Burke, C. J., Baldassare, V. F., Liu, X., Foley, R. J., Shen, Y., Palmese, A., et al., The Curious Case of PHL 293B: A Long-lived Transient in a Metal-poor Blue Compact Dwarf Galaxy, The Astrophysical Journal, 894, L5, (2020)

38. Drlica-Wagner, A., Bechtol, K., Mau, S., McNanna, M., Nadler, E. O., Pace, A. B., et al., Milky Way Satellite Census. I. The Observational Selection Function for Milky Way Satellites in DES Y3 and Pan-STARRS DR1, The Astrophysical Journal, 893, 47, (2020)

39. Simon, J. D., Li, T. S., Erkal, D., Pace, A. B., Drlica-Wagner, A., James, D. J., et al., Birds of a Feather? Magellan/IMACS Spectroscopy of the Ultra-faint Satellites Grus II, Tucana IV, and Tucana V, The Astrophysical Journal, 892, 137, (2020)

40. Ammazzalorso, S., Gruen, D., Regis, M., Camera, S., Ando, S., Fornengo, N., et al., Detection of Cross-Correlation between Gravitational Lensing and γ Rays, Physical Review Letters, 124, 101102, (2020)

41. Bleem, L. E., Bocquet, S., Stalder, B., Gladders, M. D., Ade, P. A. R., Allen, S. W., et al., The SPTpol Extended Cluster Survey, The Astrophysical Journal Supplement Series, 247, 25, (2020)

42. Yu, Z., Martini, P., Davis, T. M., Gruendl, R. A., Hoormann, J. K., Kochanek, C. S., et al., Quasar Accretion Disk Sizes from Continuum Reverberation Mapping in the DES Standard-star Fields, The Astrophysical Journal Supplement Series, 246, 16, (2020)

43. Lin, H. W., Gerdes, D. W., Hamilton, S. J., Adams, F. C., Bernstein, G. M., Sako, M., et al., Reprint of "Evidence for color dichotomy in the primordial Neptunian Trojan population", Icarus, 334, 79, (2019)

44. Lee, S., Huff, E. M., Ross, A. J., Choi, A., Hirata, C., Honscheid, K., et al., Producing a BOSS CMASS sample with DES imaging, Monthly Notices of the Royal Astronomical Society, 489, 2887, (2019)

45. Buchs, R., Davis, C., Gruen, D., DeRose, J., Alarcon, A., Bernstein, G. M., et al., Phenotypic redshifts with self-organizing maps: A novel method to characterize redshift distributions of source galaxies for weak lensing, Monthly Notices of the Royal Astronomical Society, 489, 820, (2019)

46. Costanzi, M., Rozo, E., Simet, M., Zhang, Y., Evrard, A. E., Mantz, A., et al., Methods for cluster cosmology and application to the SDSS in preparation for DES Year 1 release, Monthly Notices of the Royal Astronomical Society, 488, 4779, (2019)

47. Zhang, Y., Miller, C. J., Rooney, P., Bermeo, A., Romer, A. K., Vergara Cervantes, C., et al., Galaxies in X-ray selected clusters and groups in Dark Energy Survey data - II. Hierarchical Bayesian modelling of the red-sequence galaxy luminosity function, Monthly Notices of the Royal Astronomical Society, 488, 1, (2019)

48. Marshall, J. L., Hansen, T., Simon, J. D., Li, T. S., Bernstein, R. A., Kuehn, K., et al., Chemical Abundance Analysis of Tucana III, the Second r-process Enhanced Ultra-faint Dwarf Galaxy, The Astrophysical Journal, 882, 177, (2019)

49. Omori, Y., Baxter, E. J., Chang, C., Kirk, D., Alarcon, A., Bernstein, G. M., et al., Dark Energy Survey Year 1 Results: Cross-correlation between Dark Energy Survey Y1 galaxy weak lensing and South Pole Telescope+Planck CMB weak lensing, Physical Review D, 100, 043517, (2019)

50. Omori, Y., Giannantonio, T., Porredon, A., Baxter, E. J., Chang, C., Crocce, M., et al., Dark Energy Survey Year 1 Results: Tomographic cross-correlations between Dark Energy Survey galaxies and CMB lensing from South Pole Telescope +Planck, Physical Review D, 100, 043501, (2019)

51. Shin, T., Adhikari, S., Baxter, E. J., Chang, C., Jain, B., Battaglia, N., et al., Measurement of the splashback feature around SZ-selected Galaxy clusters with DES, SPT, and ACT, Monthly Notices of the Royal Astronomical Society, 487, 2900, (2019)

52. Angus, C. R., Smith, M., Sullivan, M., Inserra, C., Wiseman, P., D'Andrea, C. B., et al., Superluminous supernovae from the Dark Energy Survey, Monthly Notices of the Royal Astronomical Society, 487, 2215, (2019)

53. Wang, M. Y., de Boer, T., Pieres, A., Li, T. S., Drlica-Wagner, A., Koposov, S. E., et al., The Morphology and Structure of Stellar Populations in the Fornax Dwarf Spheroidal Galaxy from Dark Energy Survey Data, The Astrophysical Journal, 881, 118, (2019)

54. Prat, J., Baxter, E., Shin, T., Sánchez, C., Chang, C., Jain, B., et al., Cosmological lensing ratios with DES Y1, SPT, and Planck, Monthly Notices of the Royal Astronomical Society, 487, 1363, (2019)

55. Stringer, K. M., Long, J. P., Macri, L. M., Marshall, J. L., Drlica-Wagner, A., Martínez-Vázquez, C. E., et al., Identification of RR Lyrae Stars in Multiband, Sparsely Sampled Data from the Dark Energy Survey Using Template Fitting and Random Forest Classification, The Astronomical Journal, 158, 16, (2019)

56. Macaulay, E., Nichol, R. C., Bacon, D., Brout, D., Davis, T. M., Zhang, B., et al., First cosmological results using Type Ia supernovae from the Dark Energy Survey: measurement of the Hubble constant, Monthly Notices of the Royal Astronomical Society, 486, 2184, (2019)

57. Kessler, R., Brout, D., D'Andrea, C. B., Davis, T. M., Hinton, S. R., Kim, A. G., et al., First cosmology results using Type Ia supernova from the Dark Energy Survey: simulations to correct supernova distance biases, Monthly Notices of the Royal Astronomical Society, 485, 1171, (2019)

58. Chisari, N. E., Alonso, D., Krause, E., Leonard, C. D., Bull, P., Neveu, J., et al., Core Cosmology Library: Precision Cosmological Predictions for LSST, The Astrophysical Journal Supplement Series, 242, 2, (2019)

59. Soares-Santos, M., Palmese, A., Hartley, W., Annis, J., Garcia-Bellido, J., Lahav, O., et al., First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary-Black-hole Merger GW170814, The Astrophysical Journal, 876, L7, (2019)

60. Hinton, S. R., Davis, T. M., Kim, A. G., Brout, D., D'Andrea, C. B., Kessler, R., et al., Steve: A Hierarchical Bayesian Model for Supernova Cosmology, The Astrophysical Journal, 876, 15, (2019)

61. Jacobs, C., Collett, T., Glazebrook, K., McCarthy, C., Qin, A. K., Abbott, T. M. C., et al., Finding high-redshift strong lenses in DES using convolutional neural networks, Monthly Notices of the Royal Astronomical Society, 484, 5330, (2019)

62. Zhang, Y., Yanny, B., Palmese, A., Gruen, D., To, C., Rykoff, E. S., et al., Dark Energy Survey Year 1 Results: Detection of Intracluster Light at Redshift ~ 0.25, The Astrophysical Journal, 874, 165, (2019)

63. Brout, D., Scolnic, D., Kessler, R., D'Andrea, C. B., Davis, T. M., Gupta, R. R., et al., First Cosmology Results Using SNe Ia from the Dark Energy Survey: Analysis, Systematic Uncertainties, and Validation, The Astrophysical Journal, 874, 150, (2019)

64. Abbott, T. M. C., Abdalla, F. B., Alarcon, A., Allam, S., Andrade-Oliveira, F., Annis, J., et al., Dark Energy Survey Year 1 Results: Measurement of the Baryon Acoustic Oscillation scale in the distribution of galaxies to redshift 1, Monthly Notices of the Royal Astronomical Society, 483, 4866, (2019)

65. Brout, D., Sako, M., Scolnic, D., Kessler, R., D'Andrea, C. B., Davis, T. M., et al., First Cosmology Results Using Type Ia Supernovae from the Dark Energy Survey: Photometric Pipeline and Light-curve Data Release, The Astrophysical Journal, 874, 106, (2019)

66. Ivezić, Ž., Kahn, S. M., Tyson, J. A., Abel, B., Acosta, E., Allsman, R., et al., LSST: From Science Drivers to Reference Design and Anticipated Data Products, The Astrophysical Journal, 873, 111, (2019)

67. Abbott, T. M. C., Allam, S., Andersen, P., Angus, C., Asorey, J., Avelino, A., et al., First Cosmology Results using Type Ia Supernovae from the Dark Energy Survey: Constraints on Cosmological Parameters, The Astrophysical Journal, 872, L30, (2019)

68. Raghunathan, S., Patil, S., Baxter, E., Benson, B. A., Bleem, L. E., Chou, T. L., et al., Mass Calibration of Optically Selected DES Clusters Using a Measurement of CMB-cluster Lensing with SPTpol Data, The Astrophysical Journal, 872, 170, (2019)

69. Baxter, E. J., Omori, Y., Chang, C., Giannantonio, T., Kirk, D., Krause, E., et al., Dark Energy Survey Year 1 results: Methodology and projections for joint analysis of galaxy clustering, galaxy lensing, and CMB lensing two-point functions, Physical Review D, 99, 023508, (2019)

70. Crocce, M., Ross, A. J., Sevilla-Noarbe, I., Gaztanaga, E., Elvin-Poole, J., Avila, S., et al., Dark Energy Survey year 1 results: galaxy sample for BAO measurement, Monthly Notices of the Royal Astronomical Society, 482, 2807, (2019)

71. Erkal, D., Li, T. S., Koposov, S. E., Belokurov, V., Balbinot, E., Bechtol, K., et al., Modelling the Tucana III stream - a close passage with the LMC, Monthly Notices of the Royal Astronomical Society, 481, 3148, (2018)

72. Cawthon, R., Davis, C., Gatti, M., Vielzeuf, P., Elvin-Poole, J., Rozo, E., et al., Dark Energy Survey Year 1 Results: calibration of redMaGiC redshift distributions in DES and SDSS from cross-correlations, Monthly Notices of the Royal Astronomical Society, 481, 2427, (2018)

73. Abbott, T. M. C., Abdalla, F. B., Allam, S., Amara, A., Annis, J., Asorey, J., et al., The Dark Energy Survey: Data Release 1, The Astrophysical Journal Supplement Series, 239, 18, (2018)

74. Khain, T., Becker, J. C., Adams, F. C., Gerdes, D. W., Hamilton, S. J., Franson, K., et al., Dynamical Analysis of Three Distant Trans-Neptunian Objects with Similar Orbits, The Astronomical Journal, 156, 273, (2018)

75. Zuntz, J., Sheldon, E., Samuroff, S., Troxel, M. A., Jarvis, M., MacCrann, N., et al., Dark Energy Survey Year 1 results: weak lensing shape catalogues, Monthly Notices of the Royal Astronomical Society, 481, 1149, (2018)

76. Treu, T., Agnello, A., Baumer, M. A., Birrer, S., Buckley-Geer, E. J., Courbin, F., et al., The STRong lensing Insights into the Dark Energy Survey (STRIDES) 2016 follow-up campaign - I. Overview and classification of candidates selected by two techniques, Monthly Notices of the Royal Astronomical Society, 481, 1041, (2018)

77. Pursiainen, M., Childress, M., Smith, M., Prajs, S., Sullivan, M., Davis, T. M., et al., Rapidly evolving transients in the Dark Energy Survey, Monthly Notices of the Royal Astronomical Society, 481, 894, (2018)

78. MacCrann, N., DeRose, J., Wechsler, R. H., Blazek, J., Gaztanaga, E., Crocce, M., et al., DES Y1 Results: validating cosmological parameter estimation using simulated Dark Energy Surveys, Monthly Notices of the Royal Astronomical Society, 480, 4614, (2018)

79. Chan, K. C., Crocce, M., Ross, A. J., Avila, S., Elvin-Poole, J., Manera, M., et al., BAO from angular clustering: optimization and mitigation of theoretical systematics, Monthly Notices of the Royal Astronomical Society, 480, 3031, (2018)

80. Agnello, A., Lin, H., Kuropatkin, N., Buckley-Geer, E., Anguita, T., Schechter, P. L., et al., DES meets Gaia: discovery of strongly lensed quasars from a multiplet search, Monthly Notices of the Royal Astronomical Society, 479, 4345, (2018)

81. Li, T. S., Simon, J. D., Kuehn, K., Pace, A. B., Erkal, D., Bechtol, K., et al., The First Tidally Disrupted Ultra-faint Dwarf Galaxy?: A Spectroscopic Analysis of the Tucana III Stream, The Astrophysical Journal, 866, 22, (2018)

82. Jeffrey, N., Abdalla, F. B., Lahav, O., Lanusse, F., Starck, J.-L., Leonard, A., et al., Improving weak lensing mass map reconstructions using Gaussian and sparsity priors: application to DES SV, Monthly Notices of the Royal Astronomical Society, 479, 2871, (2018)

83. Chang, C., Baxter, E., Jain, B., Sánchez, C., Adhikari, S., Varga, T. N., et al., The Splashback Feature around DES Galaxy Clusters: Galaxy Density and Weak Lensing Profiles, The Astrophysical Journal, 864, 83, (2018)

84. Prat, J., Sánchez, C., Fang, Y., Gruen, D., Elvin-Poole, J., Kokron, N., et al., Dark Energy Survey year 1 results: Galaxy-galaxy lensing, Physical Review D, 98, 042005, (2018)

85. Chiu, I., Mohr, J. J., McDonald, M., Bocquet, S., Desai, S., Klein, M., et al., Baryon content in a sample of 91 galaxy clusters selected by the South Pole Telescope at 0.2 <z < 1.25, Monthly Notices of the Royal Astronomical Society, 478, 3072, (2018)

86. Luque, E., Santiago, B., Pieres, A., Marshall, J. L., Pace, A. B., Kron, R., et al., Deep SOAR follow-up photometry of two Milky Way outer-halo companions discovered with Dark Energy Survey, Monthly Notices of the Royal Astronomical Society, 478, 2006, (2018)

87. Becker, J. C., Khain, T., Hamilton, S. J., Adams, F. C., Gerdes, D. W., Zullo, L., et al., Discovery and Dynamical Analysis of an Extreme Trans-Neptunian Object with a High Orbital Inclination, The Astronomical Journal, 156, 81, (2018)

88. Friedrich, O., Gruen, D., DeRose, J., Kirk, D., Krause, E., McClintock, T., et al., Density split statistics: Joint model of counts and lensing in cells, Physical Review D, 98, 023508, (2018)

89. Hoyle, B., Gruen, D., Bernstein, G. M., Rau, M. M., De Vicente, J., Hartley, W. G., et al., Dark Energy Survey Year 1 Results: redshift distributions of the weak-lensing source galaxies, Monthly Notices of the Royal Astronomical Society, 478, 592, (2018)

90. Gatti, M., Vielzeuf, P., Davis, C., Cawthon, R., Rau, M. M., DeRose, J., et al., Dark Energy Survey Year 1 results: cross-correlation redshifts - methods and systematics characterization, Monthly Notices of the Royal Astronomical Society, 477, 1664, (2018)

91. Garcia-Fernandez, M., Sanchez, E., Sevilla-Noarbe, I., Suchyta, E., Huff, E. M., Gaztanaga, E., et al., Weak lensing magnification in the Dark Energy Survey Science Verification data, Monthly Notices of the Royal Astronomical Society, 476, 1071, (2018)

92. Samuroff, S., Bridle, S. L., Zuntz, J., Troxel, M. A., Gruen, D., Rollins, R. P., et al., Dark Energy Survey Year 1 results: the impact of galaxy neighbours on weak lensing cosmology with IM3SHAPE, Monthly Notices of the Royal Astronomical Society, 475, 4524, (2018)

93. Klein, M., Mohr, J. J., Desai, S., Israel, H., Allam, S., Benoit-Lévy, A., et al., A multicomponent matched filter cluster confirmation tool for eROSITA: initial application to the RASS and DES-SV data sets, Monthly Notices of the Royal Astronomical Society, 474, 3324, (2018)

94. Smith, M., Sullivan, M., Nichol, R. C., Galbany, L., D'Andrea, C. B., Inserra, C., et al., Studying the Ultraviolet Spectrum of the First Spectroscopically Confirmed Supernova at Redshift Two, The Astrophysical Journal, 854, 37, (2018)

95. Prat, J., Sánchez, C., Miquel, R., Kwan, J., Blazek, J., Bonnett, C., et al., Galaxy bias from galaxy-galaxy lensing in the DES science verification data, Monthly Notices of the Royal Astronomical Society, 473, 1667, (2018)

96. Scolnic, D., Kessler, R., Brout, D., Cowperthwaite, P. S., Soares-Santos, M., Annis, J., et al., How Many Kilonovae Can Be Found in Past, Present, and Future Survey Data Sets?, The Astrophysical Journal, 852, L3, (2018)

97. Nagasawa, D. Q., Marshall, J. L., Li, T. S., Hansen, T. T., Simon, J. D., Bernstein, R. A., et al., Chemical Abundance Analysis of Three α-poor, Metal-poor Stars in the Ultrafaint Dwarf Galaxy Horologium I, The Astrophysical Journal, 852, 99, (2018)

98. Agnello, A., Lin, H., Buckley-Geer, L., Treu, T., Bonvin, V., Courbin, F., et al., Models of the strongly lensed quasar DES J0408-5354, Monthly Notices of the Royal Astronomical Society, 472, 4038, (2017)

99. Childress, M. J., Lidman, C., Davis, T. M., Tucker, B. E., Asorey, J., Yuan, F., et al., OzDES multifibre spectroscopy for the Dark Energy Survey: 3-yr results and first data release, Monthly Notices of the Royal Astronomical Society, 472, 273, (2017)

100. Palmese, A., Hartley, W., Tarsitano, F., Conselice, C., Lahav, O., Allam, S., et al., Evidence for Dynamically Driven Formation of the GW170817 Neutron Star Binary in NGC 4993, The Astrophysical Journal, 849, L34, (2017)

101. Pan, Y.-C., Foley, R. J., Smith, M., Galbany, L., D'Andrea, C. B., González-Gaitán, S., et al., DES15E2mlf: a spectroscopically confirmed superluminous supernova that exploded 3.5 Gyr after the big bang, Monthly Notices of the Royal Astronomical Society, 470, 4241, (2017)

102. Cowperthwaite, P. S., Berger, E., Villar, V. A., Metzger, B. D., Nicholl, M., Chornock, R., et al., The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. II. UV, Optical, and Near-infrared Light Curves and Comparison to Kilonova Models, The Astrophysical Journal, 848, L17, (2017)

103. Soares-Santos, M., Holz, D. E., Annis, J., Chornock, R., Herner, K., Berger, E., et al., The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817.

I. Discovery of the Optical Counterpart Using the Dark Energy Camera, The Astrophysical Journal, 848, L16, (2017)

104. Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., et al., Multi-messenger Observations of a Binary Neutron Star Merger, The Astrophysical Journal, 848, L12, (2017)

105. Melchior, P., Gruen, D., McClintock, T., Varga, T. N., Sheldon, E., Rozo, E., et al., Weak-lensing mass calibration of redMaPPer galaxy clusters in Dark Energy Survey Science Verification data, Monthly Notices of the Royal Astronomical Society, 469, 4899, (2017)

106. Jouvel, S., Delubac, T., Comparat, J., Camacho, H., Carnero, A., Abdalla, F. B., et al., Photometric redshifts and clustering of emission line galaxies selected jointly by DES and eBOSS, Monthly Notices of the Royal Astronomical Society, 469, 2771, (2017)

107. Bernstein, G. M., Armstrong, R., Plazas, A. A., Walker, A. R., Abbott, T. M. C., Allam, S., et al., Astrometric Calibration and Performance of the Dark Energy Camera, Publications of the Astronomical Society of the Pacific, 129, 074503, (2017)

108. Mudd, D., Martini, P., Tie, S. S., Lidman, C., McMahon, R., Banerji, M., et al., Discovery of a z = 0.65 post-starburst BAL quasar in the DES supernova fields, Monthly Notices of the Royal Astronomical Society, 468, 3682, (2017)

109. Collett, T. E., Buckley-Geer, E., Lin, H., Bacon, D., Nichol, R. C., Nord, B., et al., Core or Cusps: The Central Dark Matter Profile of a Strong Lensing Cluster with a Bright Central Image at Redshift 1, The Astrophysical Journal, 843, 148, (2017)

110. Hennig, C., Mohr, J. J., Zenteno, A., Desai, S., Dietrich, J. P., Bocquet, S., et al., Galaxy populations in massive galaxy clusters to z = 1.1: colour distribution, concentration, halo occupation number and red sequence fraction, Monthly Notices of the Royal Astronomical Society, 467, 4015, (2017)

111. Clerkin, L., Kirk, D., Manera, M., Lahav, O., Abdalla, F., Amara, A., et al., Testing the lognormality of the galaxy and weak lensing convergence distributions from Dark Energy Survey maps, Monthly Notices of the Royal Astronomical Society, 466, 1444, (2017)

112. Etherington, J., Thomas, D., Maraston, C., Sevilla-Noarbe, I., Bechtol, K., Pforr, J., et al., Environmental dependence of the galaxy stellar mass function in the Dark Energy Survey Science Verification Data, Monthly Notices of the Royal Astronomical Society, 466, 228, (2017)

113. Gerdes, D. W., Sako, M., Hamilton, S., Zhang, K., Khain, T., Becker, J. C., et al., Discovery and Physical Characterization of a Large Scattered Disk Object at 92 au, The Astrophysical Journal, 839, L15, (2017)

114. Lin, H., Buckley-Geer, E., Agnello, A., Ostrovski, F., McMahon, R. G., Nord, B., et al., Discovery of the Lensed Quasar System DES J0408-5354, The Astrophysical Journal, 838, L15, (2017)

115. Kovács, A., Sánchez, C., García-Bellido, J., Nadathur, S., Crittenden, R., Gruen, D., et al., Imprint of DES superstructures on the cosmic microwave background, Monthly Notices of the Royal Astronomical Society, 465, 4166, (2017)

116. MacCrann, N., Aleksić, J., Amara, A., Bridle, S. L., Bruderer, C., Chang, C., et al., Inference from the small scales of cosmic shear with current and future Dark Energy Survey data, Monthly Notices of the Royal Astronomical Society, 465, 2567, (2017)

117. Hansen, T. T., Simon, J. D., Marshall, J. L., Li, T. S., Carollo, D., DePoy, D. L., et al., An r-process Enhanced Star in the Dwarf Galaxy Tucana III, The Astrophysical Journal, 838, 44, (2017)

118. Li, T. S., Simon, J. D., Drlica-Wagner, A., Bechtol, K., Wang, M. Y., García-Bellido, J., et al., Farthest Neighbor: The Distant Milky Way Satellite Eridanus II, The Astrophysical Journal, 838, 8, (2017)

119. Doctor, Z., Kessler, R., Chen, H. Y., Farr, B., Finley, D. A., Foley, R. J., et al., A Search for Kilonovae in the Dark Energy Survey, The Astrophysical Journal, 837, 57, (2017)

120. Tie, S. S., Martini, P., Mudd, D., Ostrovski, F., Reed, S. L., Lidman, C., et al., A Study of Quasar Selection in the Supernova Fields of the Dark Energy Survey, The Astronomical Journal, 153, 107, (2017)

121. Samuroff, S., Troxel, M. A., Bridle, S. L., Zuntz, J., MacCrann, N., Krause, E., et al., Simultaneous constraints on cosmology and photometric redshift bias from weak lensing and galaxy clustering, Monthly Notices of the Royal Astronomical Society, 465, L20, (2017)

122. Kwan, J., Sánchez, C., Clampitt, J., Blazek, J., Crocce, M., Jain, B., et al., Cosmology from large-scale galaxy clustering and galaxy-galaxy lensing with Dark Energy Survey Science Verification data, Monthly Notices of the Royal Astronomical Society, 464, 4045, (2017)

123. Albert, A., Anderson, B., Bechtol, K., Drlica-Wagner, A., Meyer, M., Sánchez-Conde, M., et al., Searching for Dark Matter Annihilation in Recently Discovered Milky Way Satellites with Fermi-Lat, The Astrophysical Journal, 834, 110, (2017)

124. Kacprzak, T., Kirk, D., Friedrich, O., Amara, A., Refregier, A., Marian, L., et al., Cosmology constraints from shear peak statistics in Dark Energy Survey Science Verification data, Monthly Notices of the Royal Astronomical Society, 463, 3653, (2016)

125. Gupta, R. R., Kuhlmann, S., Kovacs, E., Spinka, H., Kessler, R., Goldstein, D. A., et al., Host Galaxy Identification for Supernova Surveys, The Astronomical Journal, 152, 154, (2016)

126. Leistedt, B., Peiris, H. V., Elsner, F., Benoit-Lévy, A., Amara, A., Bauer, A. H., et al., Mapping and Simulating Systematics due to Spatially Varying Observing Conditions in DES Science Verification Data, The Astrophysical Journal Supplement Series, 226, 24, (2016)

127. Park, Y., Krause, E., Dodelson, S., Jain, B., Amara, A., Becker, M. R., et al., Joint analysis of galaxy-galaxy lensing and galaxy clustering: Methodology and forecasts for Dark Energy Survey, Physical Review D, 94, 063533, (2016)

128. Poci, A., Kuehn, K., Abbott, T., Abdalla, F. B., Allam, S., Bauer, A. H., et al., DESAlert: Enabling Real-Time Transient Follow-Up with Dark Energy Survey Data, Publications of the Astronomical Society of Australia, 33, e049, (2016)

129. Rozo, E., Rykoff, E. S., Abate, A., Bonnett, C., Crocce, M., Davis, C., et al., redMaGiC: selecting luminous red galaxies from the DES Science Verification data, Monthly Notices of the Royal Astronomical Society, 461, 1431, (2016)

130. Pieres, A., Santiago, B., Balbinot, E., Luque, E., Queiroz, A., da Costa, L. N., et al., Physical properties of star clusters in the outer LMC as observed by the DES, Monthly Notices of the Royal Astronomical Society, 461, 519, (2016)

131. Bonnett, C., Troxel, M. A., Hartley, W., Amara, A., Leistedt, B., Becker, M. R., et al., Redshift distributions of galaxies in the Dark Energy Survey Science Verification shear catalogue and implications for weak lensing, Physical Review D, 94, 042005, (2016)

132. Jarvis, M., Sheldon, E., Zuntz, J., Kacprzak, T., Bridle, S. L., Amara, A., et al., The DES Science Verification weak lensing shear catalogues, Monthly Notices of the Royal Astronomical Society, 460, 2245, (2016)

133. Comparat, J., Delubac, T., Jouvel, S., Raichoor, A., Kneib, J.-P., Yèche, C., et al., SDSS-IV eBOSS emission-line galaxy pilot survey, Astronomy and Astrophysics, 592, A121, (2016)

134. Chang, C., Pujol, A., Gaztañaga, E., Amara, A., Réfrégier, A., Bacon, D., et al., Galaxy bias from the Dark Energy Survey Science Verification data: combining galaxy density maps and weak lensing maps, Monthly Notices of the Royal Astronomical Society, 459, 3203, (2016)

135. Abbott, B. P., Abbott, R., Abbott, T. D., Abernathy, M. R., Acernese, F., Ackley, K., et al., Supplement: "Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914" (2016, ApJL, 826, L13), The Astrophysical Journal Supplement Series, 225, 8, (2016)

136. Abbott, B. P., Abbott, R., Abbott, T. D., Abernathy, M. R., Acernese, F., Ackley, K., et al., Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914, The Astrophysical Journal, 826, L13, (2016)

137. Kirk, D., Omori, Y., Benoit-Lévy, A., Cawthon, R., Chang, C., Larsen, P., et al., Cross-correlation of gravitational lensing from DES Science Verification data with SPT and Planck lensing, Monthly Notices of the Royal Astronomical Society, 459, 21, (2016)

138. Annis, J., Soares-Santos, M., Berger, E., Brout, D., Chen, H., Chornock, R., et al., A Dark Energy Camera Search for Missing Supergiants in the LMC after the Advanced LIGO Gravitational-wave Event GW150914, The Astrophysical Journal, 823, L34, (2016)

139. Soares-Santos, M., Kessler, R., Berger, E., Annis, J., Brout, D., Buckley-Geer, E., et al., A Dark Energy Camera Search for an Optical Counterpart to the First Advanced LIGO Gravitational Wave Event GW150914, The Astrophysical Journal, 823, L33, (2016)

140. Luque, E., Queiroz, A., Santiago, B., Pieres, A., Balbinot, E., Bechtol, K., et al., Digging deeper into the Southern skies: a compact Milky Way companion discovered in first-year Dark Energy Survey data, Monthly Notices of the Royal Astronomical Society, 458, 603, (2016)

141. Suchyta, E., Huff, E. M., Aleksić, J., Melchior, P., Jouvel, S., MacCrann, N., et al., No galaxy left behind: accurate measurements with the faintest objects in the Dark Energy Survey, Monthly Notices of the Royal Astronomical Society, 457, 786, (2016)

142. Giannantonio, T., Fosalba, P., Cawthon, R., Omori, Y., Crocce, M., Elsner, F., et al., CMB lensing tomography with the DES Science Verification galaxies, Monthly Notices of the Royal Astronomical Society, 456, 3213, (2016)

143. Crocce, M., Carretero, J., Bauer, A. H., Ross, A. J., Sevilla-Noarbe, I., Giannantonio, T., et al., Galaxy clustering, photometric redshifts and diagnosis of systematics in the DES Science Verification data, Monthly Notices of the Royal Astronomical Society, 455, 4301, (2016)

144. Gerdes, D. W., Jennings, R. J., Bernstein, G. M., Sako, M., Adams, F., Goldstein, D., et al., Observation of Two New L4 Neptune Trojans in the Dark Energy Survey Supernova Fields, The Astronomical Journal, 151, 39, (2016)

145. Gruen, D., Friedrich, O., Amara, A., Bacon, D., Bonnett, C., Hartley, W., et al., Weak lensing by galaxy troughs in DES Science Verification data, Monthly Notices of the Royal Astronomical Society, 455, 3367, (2016)

146. Zhang, Y., Miller, C., McKay, T., Rooney, P., Evrard, A. E., Romer, A. K., et al., Galaxies in X-Ray Selected Clusters and Groups in Dark Energy Survey Data. I. Stellar Mass Growth of Bright Central Galaxies since z~1.2, The Astrophysical Journal, 816, 98, (2016)

147. Saro, A., Bocquet, S., Rozo, E., Benson, B. A., Mohr, J., Rykoff, E. S., et al., Constraints on the richness-mass relation and the optical-SZE positional offset distribution for SZE-selected clusters, Monthly Notices of the Royal Astronomical Society, 454, 2305, (2015)

148. Agnello, A., Treu, T., Ostrovski, F., Schechter, P. L., Buckley-Geer, E. J., Lin, H., et al., Discovery of two gravitationally lensed quasars in the Dark Energy Survey, Monthly Notices of the Royal Astronomical Society, 454, 1260, (2015)

149. Kessler, R., Marriner, J., Childress, M., Covarrubias, R., D'Andrea, C. B., Finley, D. A., et al., The Difference Imaging Pipeline for the Transient Search in the Dark Energy Survey, The Astronomical Journal, 150, 172, (2015)

150. Drlica-Wagner, A., Bechtol, K., Rykoff, E. S., Luque, E., Queiroz, A., Mao, Y.-Y., et al., Eight Ultra-faint Galaxy Candidates Discovered in Year Two of the Dark Energy Survey, The Astrophysical Journal, 813, 109, (2015)

151. Yuan, F., Lidman, C., Davis, T. M., Childress, M., Abdalla, F. B., Banerji, M., et al., OzDES multifibre spectroscopy for the Dark Energy Survey: first-year operation and results, Monthly Notices of the Royal Astronomical Society, 452, 3047, (2015)

152. Drlica-Wagner, A., Albert, A., Bechtol, K., Wood, M., Strigari, L., Sánchez-Conde, M., et al., Search for Gamma-Ray Emission from DES Dwarf Spheroidal Galaxy Candidates with Fermi-LAT Data, The Astrophysical Journal, 809, L4, (2015)

153. Chang, C., Vikram, V., Jain, B., Bacon, D., Amara, A., Becker, M. R., et al., Wide-Field Lensing Mass Maps from Dark Energy Survey Science Verification Data, Physical Review Letters, 115, 051301, (2015)

154. Bechtol, K., Drlica-Wagner, A., Balbinot, E., Pieres, A., Simon, J. D., Yanny, B., et al., Eight New Milky Way Companions Discovered in First-year Dark Energy Survey Data, The Astrophysical Journal, 807, 50, (2015)

155. Papadopoulos, A., D'Andrea, C. B., Sullivan, M., Nichol, R. C., Barbary, K., Biswas, R., et al., DES13S2cmm: the first superluminous supernova from the Dark Energy Survey, Monthly Notices of the Royal Astronomical Society, 449, 1215, (2015)

156. Chang, C., Busha, M. T., Wechsler, R. H., Refregier, A., Amara, A., Rykoff, E., et al., Modeling the Transfer Function for the Dark Energy Survey, The Astrophysical Journal, 801, 73, (2015)

Minor contributions or co-author through builder status (non-Refereed)

1. DeRose, J., Wechsler, R. H., Becker, M. R., Rykoff, E. S., Pandey, S., MacCrann, N., et al., Dark Energy Survey Year 3 results: cosmology from combined galaxy clustering and lensing -- validation on cosmological simulations, arXiv e-prints, arXiv:2105.13547, (2021)

2. Porredon, A., Crocce, M., Elvin-Poole, J., Cawthon, R., Giannini, G., De Vicente, J., et al., Dark Energy Survey Year 3 results: Cosmological constraints from galaxy clustering and

galaxy-galaxy lensing using the MagLim lens sample, arXiv e-prints, arXiv:2105.13546, (2021)

3. Pandey, S., Krause, E., DeRose, J., MacCrann, N., Jain, B., Crocce, M., et al., Dark Energy Survey Year 3 Results: Constraints on cosmological parameters and galaxy bias models from galaxy clustering and galaxy-galaxy lensing using the redMaGiC sample, arXiv e-prints, arXiv:2105.13545, (2021)

4. Secco, L. F., Samuroff, S., Krause, E., Jain, B., Blazek, J., Raveri, M., et al., Dark Energy Survey Year 3 Results: Cosmology from Cosmic Shear and Robustness to Modeling Uncertainty, arXiv e-prints, arXiv:2105.13544, (2021)

5. Amon, A., Gruen, D., Troxel, M. A., MacCrann, N., Dodelson, S., Choi, A., et al., Dark Energy Survey Year 3 Results: Cosmology from Cosmic Shear and Robustness to Data Calibration, arXiv e-prints, arXiv:2105.13543, (2021)

6. Sánchez, C., Prat, J., Zacharegkas, G., Pandey, S., Baxter, E., Bernstein, G. M., et al., Dark Energy Survey Year 3 Results: Exploiting small-scale information with lensing shear ratios, arXiv e-prints, arXiv:2105.13542, (2021)

7. Prat, J., Blazek, J., Sánchez, C., Tutusaus, I., Pandey, S., Elvin-Poole, J., et al., Dark Energy Survey Year 3 Results: High-precision measurement and modeling of galaxy-galaxy lensing, arXiv e-prints, arXiv:2105.13541, (2021)

8. Lee, S., Huff, E. M., Choi, A., Elvin-Poole, J., Hirata, C., Honscheid, K., et al., Probing gravity with the DES-CMASS sample and BOSS spectroscopy, arXiv e-prints, arXiv:2104.14515, (2021)

9. Lee, S., Troxel, M. A., Choi, A., Elvin-Poole, J., Hirata, C., Honscheid, K., et al., Galaxy-galaxy lensing with the DES-CMASS catalogue: measurement and constraints on the galaxy-matter cross-correlation, arXiv e-prints, arXiv:2104.11319, (2021)

10. Penton, A., Malik, U., Davis, T., Martini, P., Yu, Z., Sharp, R., et al., OzDES Reverberation Mapping Program: Lag recovery reliability for 6-year CIV analysis, arXiv e-prints, arXiv:2101.06921, (2021)

11. Everett, S., Yanny, B., Kuropatkin, N., Huff, E. M., Zhang, Y., Myles, J., et al., Dark Energy Survey Year 3 Results: Measuring the Survey Transfer Function with Balrog, arXiv e-prints, arXiv:2012.12825, (2020)

12. Hartley, W. G., Choi, A., Amon, A., Gruendl, R. A., Sheldon, E., Harrison, I., et al., Dark Energy Survey Year 3 Results: Deep Field Optical + Near-Infrared Images and Catalogue, arXiv e-prints, arXiv:2012.12824, (2020)

13. Gatti, M., Giannini, G., Bernstein, G. M., Alarcon, A., Myles, J., Amon, A., et al., Dark Energy Survey Year 3 Results: Clustering Redshifts -- Calibration of the Weak Lensing Source

Redshift Distributions with redMaGiC and BOSS/eBOSS, arXiv e-prints, arXiv:2012.08569, (2020)

14. MacCrann, N., Becker, M. R., McCullough, J., Amon, A., Gruen, D., Jarvis, M., et al., DES Y3 results: Blending shear and redshift biases in image simulations, arXiv e-prints, arXiv:2012.08567, (2020)

15. Crill, B. P., Werner, M., Akeson, R., Ashby, M., Bleem, L., Bock, J. J., et al., SPHEREx: NASA's near-infrared spectrophotometric all-sky survey, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 11443, 114430I, (2020)

16. Fortino, W. F., Bernstein, G. M., Bernardinelli, P. H., Aguena, M., Allam, S., Annis, J., et al., Reducing ground-based astrometric errors with Gaia and Gaussian processes, arXiv e-prints, arXiv:2010.13742, (2020)

17. Capak, P., Cuillandre, J.-C., Bernardeau, F., Castander, F., Bowler, R., Chang, C., et al., Enhancing LSST Science with Euclid Synergy, arXiv e-prints, arXiv:1904.10439, (2019)

18. Capak, P., Sconlic, D., Cuillandre, J.-C., Castander, F., Bolton, A., Bowler, R., et al., Mini-survey of the northern sky to Dec <+30, arXiv e-prints, arXiv:1904.10438, (2019)

19. Redmond, S., Benton, S., Brown, A. M., Clark, P., Damaren, C. J., Eifler, T., et al., Auto-tuned thermal control on stratospheric balloon experiments, Ground-based and Airborne Telescopes VII, 10700, 107005R, (2018)

20. Korngut, P. M., Bock, J. J., Akeson, R., Ashby, M., Bleem, L., Boland, J., et al., SPHEREx: an all-sky NIR spectral survey, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106981U, (2018)

21. Lee, S., Huff, E., Ross, A., Troxel, M., Maccrann, N., Choi, A., et al., Producing an SDSS-BOSS CMASS sample with imaging from the Dark Energy Survey to test gravity, APS April Meeting Abstracts, 2018, J15.008, (2018)

22. Zhang, Y., Miller, C. J., Rooney, P., Bermeo, A., Romer, A. K., Vergara cervantes, C., et al., Galaxies in X-ray Selected Clusters and Groups in Dark Energy Survey Data II: Hierarchical Bayesian Modeling of the Red-Sequence Galaxy Luminosity Function, arXiv e-prints, arXiv:1710.05908, (2017)

23. Davis, C., Gatti, M., Vielzeuf, P., Cawthon, R., Rozo, E., Alarcon, A., et al., Dark Energy Survey Year 1 Results: Cross-Correlation Redshifts in the DES -- Calibration of the Weak Lensing Source Redshift Distributions, arXiv e-prints, arXiv:1710.02517, (2017)

24. Garcia-Fernandez, M., Sánchez, E., Sevilla-Noarbe, I., Suchyta, E., Huff, E. M., Gaztanaga, E., et al., Weak lensing magnification in the Dark Energy Survey Science Verification Data, arXiv e-prints, arXiv:1611.10326, (2016)

25. Diehl, H. T., Neilsen, E., Gruendl, R., Yanny, B., Abbott, T. M. C., Aleksić, J., et al., The dark energy survey and operations: years 1 to 3, Observatory Operations: Strategies, Processes, and Systems VI, 9910, 99101D, (2016)

26. Doré, O., Werner, M. W., Ashby, M., Banerjee, P., Battaglia, N., Bauer, J., et al., Science Impacts of the SPHEREx All-Sky Optical to Near-Infrared Spectral Survey: Report of a Community Workshop Examining Extragalactic, Galactic, Stellar and Planetary Science, arXiv e-prints, arXiv:1606.07039, (2016)

27. Jouvel, S., Delubac, T., Comparat, J., Carnero, A., Camacho, H., Abdalla, F. B., et al., Photometric redshifts and clustering of emission line galaxies selected jointly by DES and eBOSS, arXiv e-prints, arXiv:1509.07121, (2015)

28. Doré, O., Bock, J., Ashby, M., Capak, P., Cooray, A., de Putter, R., et al., Cosmology with the SPHEREX All-Sky Spectral Survey, arXiv e-prints, arXiv:1412.4872, (2014)

29. Diehl, H. T., Abbott, T. M. C., Annis, J., Armstrong, R., Baruah, L., Bermeo, A., et al., The Dark Energy Survey and operations: Year 1, Observatory Operations: Strategies, Processes, and Systems V, 9149, 91490V, (2014)