



- 2013–      Lead analyzer in project: Voronoi Tessellation clusters in DES early data
- 2013–2015 Contributed to study of richness-mass relation of galaxy clusters  
**Saro et al. 2015, MNRAS, 454, 2305**
- 2013–2015 Contributed to analysis of properties of galaxies in clusters  
**Zhang et al. 2015, arXiv:1504.02983**
- 2013      Appointed Builder of the DES Collaboration
- 2012–      Observer/Run Manager ( $\sim 10$  nights/year), Cerro Tololo Inter-American Observatory, Chile, Blanco 4m imaging with DECam
- 2011–2013 Led cluster working group science verification data quality effort
- 2010–2012 Played key role on construction and commissioning of DECam  
**Flaugher et al. 2015, AJ, 150, 150**
- 2008–2011 Developed a Voronoi Tessellation galaxy cluster finder algorithm  
**Soares-Santos et al. 2011, ApJ, 727, 45**
- SLOAN DIGITAL SKY SURVEY (SDSS)
- 2012–2015 Obtained weak lensing mass calibration of galaxy clusters at  $z < 1$   
**Wiesner, Lin, Soares-Santos 2015, MNRAS, 452, 701**
- 2010–2014 Produced the deepest galaxy catalog, and photometric redshifts  
**Annis et al. 2014, ApJ, 794, 120**  
**Reis et al. 2012, ApJ, 747, 59**
- 2010–2012 Measured cosmic shear, galaxy cluster weak lensing tomography  
**Lin et al. 2012, ApJ, 761, 15**  
**Simet et al. 2012, ApJ, 748, 128**
- 2008–2010 Contributed to the discovery of 7 strong lensing systems  
**Kubo et al. 2010, ApJL, 724, L137**
- 2008–2009 Observed SDSS arc candidate systems, Apache Point Observatory 2.5m remote observing (2 nights)
- 2008–2009 Obtained weak lensing mass estimates for nearby cluster samples  
**Kubo et al. 2009, ApJL, 702, L110**
- LARGE SYNOPTIC SURVEY TELESCOPE (LSST),  
DARK ENERGY SCIENCE COLLABORATION (DESC)
- 2015–      Contributor to LSST survey strategy document (GW section)
- DARK ENERGY SPECTROSCOPIC INSTRUMENT (DESI)
- 2015      Contributed to transient science white paper (GW section)

## OTHER WORK

- 2010 Serendipitous observations of the comet P/2010 A2 (LINEAR)
- 2009–2010 Observed clusters for weak lensing analysis, Kitt Peak National Observatory, WIYN 3.5m imaging with MiniMo (15 nights)
- 2006–2008 Developed software for analysis of wide-field images  
**La Barbera et al. 2008, PASP, 120, 681**
- 2001–2006 Calculated predictions for cosmological gravitational waves  
**Fabris, Gonçalves, Soares-Santos 2004, GRG, 36, 2559**

- SCIENTIFIC COLLABORATION MEMBERSHIPS
- 2013 Dark Energy Spectroscopic Instrument (DESI)
- 2012 Large Synoptic Survey Telescope Dark Energy Science (LSST/DESC)
- 2008 Dark Energy Survey (DES)

- PROFESSIONAL MEMBERSHIPS
- 2012 International Society for Optics and Photonics (SPIE)
- 2010 American Physical Society (APS)  
APS Divisions: Particles and Fields (DPF), Astrophysics (DAP)
- 2009 American Astronomical Society (AAS)
- 2005 Brazilian Astronomical Society (SAB)

## LEADERSHIP & SERVICE

### TO THE RESEARCH COMMUNITY

- 2016– AAS presidential early career advisory board, Member
- 2015 Indo-US Science and Technology Forum, Grant proposal reviewer
- 2014–2015 Visits to congressional offices in Washington DC, Co-organizer
- 2014 Joint DES-LSST workshop, Local organizer
- 2013 MKIDs and Cosmology workshop, Local organizer
- 2013 Early career physicists panel at APS DPF meeting, Organizer
- 2012–2013 Snowmass Young, Cosmic frontier co-convener
- 2012 NOAO ad-hoc time allocation committee for DECam, Member
- 2012 John Templeton Foundation, Grant proposal screening panelist

### TO THE DES COLLABORATION

- 2015– Transients and Moving Objects working group, Co-coordinator
- 2015– Science Committee, Member
- 2014– Deputy Operations Manager
- 2014– Internal reviewer of multiple publications
- 2012– Observer and observing run manager (~10 nights/year)
- 2011–2013 Data Management requirements verification task force, Member
- 2011–2012 Early Career Scientists committee, Member
- 2010– DECam integration and commissioning expert

## AT FERMILAB

- 2015– Lederman fellowship selection committee, Member
- 2015 Schramm fellowship selection committee, Member
- 2015– Strategic planning cosmic science theme team, Member
- 2014– Meetings with government officials and other VIPs, Participant
- 2013–2015 Users' Executive Committee, Elected member
- 2013 Science priorities ad-hoc working group, Member
- 2010–2013 Center for Particle Astrophysics Chalk Talk series, Chair
- 2009–2010 Center for Particle Astrophysics Munch journal club, Chair

## CONFERENCES

- 2016 Rencontres de Moriond Cosmology, La Thuile, Italy, Mar 19–16. (talk)
- 2015 LISHEP 2015, Manaus, Brazil, Aug 2–9. Dark Energy Physics with Cosmic Surveys in the 21st Century (invited talk)
- 2015 DECam Community Science Workshop, Tucson AZ, Mar 11–13. Observing GW bursts electromagnetic counterparts with DECam (talk)
- 2014 COSMO, Chicago IL, Aug 25–29. DES galaxy cluster results (talk)
- 2014 26th Rencontres de Blois, France, May 18–23. DES results (invited talk)
- 2014 AAS Meeting, Washington DC, Jan 5–9. VT clusters in DES (talk)
- 2013 APS DPF Meeting, Santa Cruz CA, Aug 12–18. Galaxy clusters in DES (talk), DES science verification results (talk), Snowmass impact: a two-way street for young scientists (panel organizer)
- 2013 Snowmass on the Mississippi Meeting, Minneapolis MN, Jul 28 – Aug 9. Snowmass Young (townhall discussion organizer)
- 2013 Kavli Frontiers of Science Symposium, Agra, India, Apr 6–10. Shedding light on dark energy (invited talk)
- 2013 Cosmic Frontier Pre-Snowmass Workshop, SLAC, Menlo Park CA, Mar 6–8. Snowmass Young: boosting early career scientists participation in the community planning process (talk)
- 2012 ICHEP, Melbourne, Australia, Jul 4–11. DES status, science (talk)
- 2012 SnowPAC, Snowbird UT, Mar 18–23. Weak lensing analyses in SDSS Stripe 82 coadd (talk)
- 2011 TAUP, Munich, Germany, Sep 5–9. Dark energy physics expectations at DES (talk), J. Phys. Conf. Series, 375, 032006 (2012)
- 2011 TIPP, Chicago IL, Jun 9–14. DECam integration tests on telescope simulator (talk), Phys. Proc., 37, 1445 (2012)
- 2011 AAS Meeting, Seattle WA, Jan 9–13. DECam: measurements of focal plane flatness and crosstalk among CCDs (poster)

- 2010 SAB Meeting, Passa Quatro, Brazil, Sep 7–12. Galaxy clusters in SDSS data (talk)
- 2008 3rd Biennial Leopoldina Conference, Munich, Germany, Oct 7–11. Cosmography with galaxy clusters (poster)
- 2008 SDSS International Symposium, Chicago IL, Aug 15–18. Improved cluster finding with Voronoi tessellations (poster). Support: Sloan Foundation
- 2008 ICHEP08, Philadelphia PA, Jul 29 – Aug 5. Cosmography with galaxy clusters (poster), arXiv: 0810.3689. Support: Princeton University and Univeristy of Pennsylvania
- 2007 SAB Meeting, Passa Quatro, Brazil, Sep 2–6. Dark energy and galaxy clusters (talk)
- 2007 New Physics in Space Workshop, Campos do Jordão, Brazil, Feb 4–9. Galaxy clusters for dark energy (talk)
- 2006 SAB Meeting, Atibaia, Brazil, Aug 1–3. Cosmic GW and dark energy models (talk)
- 2006 New Physics in Space Workshop, Campos do Jordão, Brazil, Feb 19–24. Gravitational waves and dark energy (poster)
- 2005 100 years of Relativity, São Paulo, Brazil, Aug 22–24. GW in a dark energy dominated universe (talk), Braz. J. of Phys. 35, 1191 (2005)
- 2005 New Physics in Space Workshop, Campos do Jordão, Brazil, Feb 20–25. Gravitational waves and the expansion of the universe (poster)
- 2005 SAB Meeting, Águas de Lindóia, Brazil, Aug 1–4. Gravitational waves and dark energy (talk)
- 2004 Magnetic Fields in the Universe, Angra dos Reis, Brazil, Nov 22–30. Modeling the spectrum of gravitational waves in the primordial Universe (poster), AIP Conf. Proc. 784, 800 (2005)
- INVITED SEMINARS
- 2015 DES and Gravitational Waves, Physics and Astronomy Colloquium, Northwestern University, Oct
- 2015 DES and Gravitational Waves, Physics and Astronomy Colloquium, Louisiana State University, Sep
- 2015 Physics at the cosmic frontier with DES and beyond, Department of Physics, University of Oxford, Apr
- 2015 Understanding Cosmic Acceleartion with DES, Department of Physics, Boston University, Apr

- 2014 Understanding Cosmic Accelartion with DES and beyond, Department of Astronomy & Astrophysics, University of Chicago, Oct
- 2014 Results from DES early data, Florida Institute of Technology, Sep
- 2014 Understanding Cosmic Accelartion with DES and beyond, Fermilab Astrophysics Seminar, Aug
- 2014 DES early science and perspectives, Argonne National Laboratory, Apr
- 2014 DES early science and prospects, HEP Seminar, University of Illinois at Urbana-Champaign, Feb
- 2014 DES early science and prospects, Physics Department, Princeton University, Feb
- 2014 DES early science and prospects, Physics and Astronomy Department, Michigan State University, Feb
- 2014 DES early science and prospects, Physics and Astronomy Department, Stony Brook University, Jan
- 2013 First results from DES, Joint Experimental-Theoretical Physics “Wine and Cheese” Seminar, Fermilab, Oct
- 2013 DES status and results, Joint Astronomy and High Energy Physics Seminar, University of Manchester, Oct
- 2013 DES status & results, Astronomy Department, University of Sussex, Oct
- 2013 The Dark Energy Survey status, first results and science prospects, Department of Physics and Astronomy, University of Minnesota, Apr
- 2013 DES latest results, Physics Department, University of São Paulo, Feb
- 2013 The Dark Energy Survey status and first results, Department of Physics and Astronomy, Michigan State University, Jan
- 2012 The Dark Energy Survey status and first results, Argelander-Institut fuer Astronomie, University of Bonn, Germany, Dec
- 2012 DES status and first results, University of Zurich, Switzerland, Dec
- 2012 DES science status, Physics Department, University of São Paulo, Apr
- 2012 Weak lensing with the SDSS Coadd and implications for DES, Kavli Institute for Cosmological Physics, University of Chicago, Feb
- 2011 DES Status and Prospects for Physics from Galaxy Clusters, High Energy Physics Department, Argonne National Laboratory, Nov
- 2011 Cosmology in the Dark Energy Survey Era, Physics Department, Federal University of Espirito Santo, São Mateus, Brazil, Apr

- 2011 Cosmology in the Dark Energy Survey Era, Physics Department, University of Texas at El Paso, Mar
- 2010 Galaxy cluster analysis in the SDSS Coadd and DES, Kavli Institute for Particle Astrophysics & Cosmology, SLAC National Laboratory, Feb
- 2010 Galaxy cluster analysis in the SDSS Coadd and DES, Center of Cosmology & Astroparticle Physics, Ohio State University
- 2010 Galaxy cluster analysis in the SDSS Coadd and DES, Physics department, University of Michigan, Feb
- 2010 Galaxy cluster analysis in the SDSS Coadd and DES, Center for Particle Astrophysics, Fermilab, Jan
- 2009 Gearing up for cosmological constraints from deep galaxy cluster samples, Physics Department, University of Michigan, Jul
- 2009 Galaxy clusters and Dark Energy, Physics Department, University of California at Davis, Jan
- 2008 Cosmology with galaxy clusters, Physics Department, Federal University of Espírito Santo, Brazil, Feb

COLLABORATION  
MEETINGS AND  
WORKSHOPS

- 2015 COFI International Workshop on Gravitational Waves, San Juan, PR, Dec 5-6. The DESGW program and future prospects (invited talk).
- 2015 Midwest Cosmic Visions Workshop at Fermilab, Nov 10. Cosmology with Gravitational Waves in Future Cosmic Surveys (talk).
- 2015 DESI Collaboration Meeting at Argonne, IL, Nov 2-5.
- 2015 LSST/DESC Collaboration Meeting at Argonne, IL, Oct 26-30.
- 2015 DES Collaboration Meeting, Madrid, Spain, Oct 5-9. Operations: new TOO procedures (talk). VT cluster analyses update (talk). DESGW and TMO parallel sessions (chair).
- 2015 LSST Project & Community Workshop, Bremerton, WA, Aug 16-22. DES GW program: prospects for the LSST era (talk).
- 2015 DES Collaboration Meeting, University of Michigan, Ann Arbor, MI, May 11-15. DES Operations: lessons learned from Year-2 (talk). DESGW parallel session (organizer). VT method applied to high-z clusters (talk).
- 2014 DES Collaboration Meeting, Sussex, UK, Oct 20-24. VT cluster analyses update (talk). DESGW parallel session (organizer).
- 2014 Joint DES-LSST Workshop, Fermilab, Mar 24-27 (organizer).

- 2013 DES Collaboration Meeting, Barcelona, Spain, Sep 29 – Oct 4. VT clusters in SV data (talk), Galaxy-Galaxy lensing in SV data (talk), Cluster Working Group report on SV data quality acceptance tests (talk), Lessons learned from Snowmass Young (talk).
- 2013 LIGO-Virgo Event Follow-up Program Discussion Meeting, Chicago IL, Sep 10-11. Southern Sky GW Follow-ups: synergies with DES and opportunities for discovery (talk)
- 2013 MKIDs & Cosmology Workshop, Fermilab, Batavia IL, Aug 26-27 (organizer). Synergy with DES/LSST: Supernovae (talk).
- 2013 DES Workshop: Galaxy-Galaxy Lensing and Large Scale Structure, Fermilab, May 29-30 (organizer). SDSS Stripe 82 results (talk).
- 2013 DESI First Collaboration Meeting, LBNL, Berkeley CA, Mar 5.
- 2013 LSST Dark Energy Science Collaboration Meeting, SLAC, Menlo Park CA, Jan 10-12. Young Scientists and Snowmass (talk).
- 2012 DES Collaboration Meeting, Munich, Germany, May 7–11. Cluster Working Group report on DC6B acceptance testing (talk). Early Career Scientists roundtable (organizer).
- 2011 DES Collaboration Meeting, UPenn, Philadelphia PA, Oct 7–11. VT cluster finder results (talk).
- 2011 DES Collaboration Meeting, Portsmouth, UK, Jun 27 – Jul 1. The Mock Observing Run (talk).
- 2009 DES Collaboration Meeting, SLAC, Menlo Park CA, Dec 1–4. VT cluster finder algorithm status (talk).
- 2008 DES Collaboration Meeting, OSU, Columbus OH, Nov 6–10. VT cluster finder status (talk).
- 2008 DES Workshop: Cluster Finder Comparison, OSU, Columbus OH, May 22-24. A Voronoi Tessellation cluster finder algorithm (talk).

INSTITUTIONAL  
MEETINGS

- 2014 Cosmic Frontier Experimental Program Status, Fermilab All Experimenters' Meeting, Oct 6
- 2012 DES Commissioning, Fermilab All Experimenters' Meeting, Oct 1
- 2010 Observational Cosmology, Fermilab Users' Annual Meeting, Jun 2–3

MENTORING

- 2015 Maria Elidaiana Pereira, CBPF/Brazil, PhD student
- 2015 Brian Welch, University of Chicago, undergraduate student
- 2015 Timothy Osborn, College of New Jersey, undergraduate student
- 2014–2015 Flavia Sobreira, Fermilab, Postdoc

2014 Steven Palladino, Teacher Research Associates (TRAC) program  
 2014 Brandon Coy, Quarknet high-school summer research program  
 2014 Talia Weiss, MIT, undergraduate student  
 2012–2014 Matt Wiesner, Northern Illinois University, PhD student  
 2011 Savanna Rutas, Illinois Mathematics & Science Academy (IMSA)  
 2009 Raktim Sarma, University of Texas at Dallas, undergraduate  
 2008 Francis Hardin, Kelsey Lawhorn, Liana Nicklaus, Tony Yunker, IMSA  
 2008 Dylan Nelson, University of California Berkeley, undergraduate

TEACHING  
EXPERIENCE

2014 Astroparticle Physics, Lecture, Hadron Collider Physics Summer School  
 2006 Introduction to Astronomy, U of São Paulo, Teaching Assistant  
 2005 Fundamentals of Astrophysics, U of São Paulo, Teaching Assistant  
 2003 Physics, State of Espírito Santo, High-School Teacher  
 2002 Mathematics, State of Espírito Santo, High-School Teacher

OUTREACH

INVITED TALKS

2014 Dark Energy, 3rd Annual Fermilab Physics Slam, Nov  
 2014 DES, Chicago Astronomical Society Meeting, May  
 2014 DES, Naperville Astronomical Association Meeting, Apr  
 2014 Dark Energy, Junior Science and Humanities Symposium, Mar  
 2013 Cosmic Frontier, Adler After Dark, Chicago Adler Planetarium, Sep  
 2013 Dark Energy: on the brink of discovery, Kavli Foundation webcast, Aug  
 2012 Dark Energy Camera, Naperville Astronomical Association, Oct  
 2012 Keynote address to 1500 3rd, 4th and 5th graders participants of the In Search of Genius Foundation science competition, Jun

OTHER ACTIVITIES

2015 Job shadowing mentor for high-school student, Nov  
 2015 Saturday lecture to undergraduates visiting Fermilab, Nov  
 2015 Adler planetarium dark energy theme night exhibit volunteer, Oct  
 2014 Tour guiding at Fermilab Saturday Morning Physics, Mar  
 2010–2012 Maintained the DES public web pages  
 2010–2012 Quantum Diaries guest blogger  
 2010 Astronomy and Particle Physics presentation to 70 kindergarten students at Saints Peter & Paul School, Naperville IL, May  
 2008–2012 Volunteered to talk to high-school students visiting Fermilab  
 2000–2003 Organized the University of Espírito Santo annual Physics fair

MEDIA  
COVERAGE

2015 A Tribuna, “Capixaba pesquisa nos EUA as origens do Universo”, Jun  
 2014 Motherboard Vice Brasil, “Em busca da energia escura”, Nov  
 2014 Correio Braziliense, “Desvendando os mistérios do Universo”, Jul  
 2014 Revista da FAPESP, “Pesquisa premiada nos EUA”, Jul

2014 Fermilab Today, “2014 Alvin Tollestrup Award”, Jun  
 2013 Symmetry Magazine, “Young physicists step up”, Oct  
 2013 Symmetry Magazine, “Unanswered questions”, Oct  
 2013 Science Magazine, “After the LHC, the Deluge”, Aug

PUBLICATIONS

REFEREED JOURNAL ARTICLES CO-AUTHORED AS PRIMARY CONTRIBUTOR

- 2015 1. Flaugher, B. et al. *The Dark Energy Camera*. AJ 150, 150, 2015. arXiv: 1504.02900.
- 2015 2. Saro, A. et al. *Constraints on the richness-mass relation and the optical-SZE positional offset distribution for SZE-selected clusters*. MNRAS 454, 2305, 2015. arXiv: 1506.07814.
- 2015 3. Wiesner, M. P., Lin, H., and **Soares-Santos, M.** *Mass calibration of galaxy clusters at redshift 0.1-1.0 using weak lensing in the Sloan Digital Sky Survey Stripe 82 co-add*. MNRAS 452, 701, 2015. arXiv: 1501.06893.
- 2015 4. Zhang, Y. et al. *Galaxies in X-ray Selected Clusters and Groups in Dark Energy Survey Data: Stellar Mass Growth of Bright Central Galaxies Since  $z \sim 1.2$* , 2015. arXiv: 1504.02983.
- 2014 5. Annis, J., **Soares-Santos, M.**, Strauss, M. A., Becker, A. C., Dodelson, S., Fan, X., Gunn, J. E., Hao, J., Ivezić, Ž., Jester, S., Jiang, L., Johnston, D. E., Kubo, J. M., Lampeitl, H., Lin, H., Lupton, R. H., Miknaitis, G., Seo, H.-J., Simet, M., and Yanny, B. *The Sloan Digital Sky Survey Coadd: 275 deg<sup>2</sup> of Deep Sloan Digital Sky Survey Imaging on Stripe 82*. ApJ 794, 120, 2014. arXiv: 1111.6619.
- 2012 6. Lin, H., Dodelson, S., Seo, H.-J., **Soares-Santos, M.**, Annis, J., Hao, J., Johnston, D., Kubo, J. M., Reis, R. R. R., and Simet, M. *The SDSS Co-add: Cosmic Shear Measurement*. ApJ 761, 15, 2012. arXiv: 1111.6622.
- 2012 7. Reis, R. R. R., **Soares-Santos, M.**, Annis, J., Dodelson, S., Hao, J., Johnston, D., Kubo, J., Lin, H., Seo, H.-J., and Simet, M. *The Sloan Digital Sky Survey Co-add: A Galaxy Photometric Redshift Catalog*. ApJ 747, 59, 2012. arXiv: 1111.6620.
- 2012 8. Simet, M., Kubo, J. M., Dodelson, S., Annis, J. T., Hao, J., Johnston, D., Lin, H., Reis, R. R. R., **Soares-Santos, M.**, and Seo, H.-J. *The Sloan Digital Sky Survey Co-add: Cross-correlation Weak Lensing and Tomography of Galaxy Clusters*. ApJ 748, 128, 2012. arXiv: 1111.6621.
- 2011 9. **Soares-Santos, M.**, de Carvalho, R. R., Annis, J., Gal, R. R., La Barbera, F., Lopes, P. A. A., Wechsler, R. H., Busha, M. T., and Gerke, B. F. *The Voronoi Tessellation Cluster Finder in 2+1 Dimensions*. ApJ 727, 45, 2011. arXiv: 1011.3458.

- 2010 10. Kubo, J. M., Allam, S. S., Drabek, E., Lin, H., Tucker, D., Buckley-Geer, E. J., Diehl, H. T., **Soares-Santos, M.**, Hao, J., Wiesner, M., West, A., Kubik, D., Annis, J., and Frieman, J. A. *The Sloan Bright Arcs Survey: Discovery of Seven New Strongly Lensed Galaxies from  $z = 0.66-2.94$* . ApJL 724, L137, 2010. arXiv: 1010.3037.
- 2009 11. Kubo, J. M., Annis, J., Hardin, F. M., Kubik, D., Lawhorn, K., Lin, H., Nicklaus, L., Nelson, D., Reis, R. R. R., Seo, H.-J., **Soares-Santos, M.**, Stebbins, A., and Yunker, T. *The Sloan Nearby Cluster Weak Lensing Survey*. ApJL 702, L110, 2009. arXiv: 0908.1532.
- 2008 12. La Barbera, F., de Carvalho, R. R., Kohl-Moreira, J. L., Gal, R. R., **Soares-Santos, M.**, Capaccioli, M., Santos, R., and Sant'anna, N. *2DPHOT: A Multi-Purpose Environment for the Two-Dimensional Analysis of Wide-Field Images*. PASP 120, 681, 2008. arXiv: 0804.1175.
- 2004 13. Fabris, J. C., Gonçalves, S. V. B., and **Soares-Santos, M.** *Gravitational Waves in the Generalized Chaplygin Gas Model*. Gen. Relat. & Gravitat. 36, 2559, 2004. arXiv: gr-qc/0404053.

REFEREED JOURNAL ARTICLES CO-AUTHORED AS DES BUILDER

- 2016 14. Crocce, M. et al. *Galaxy clustering, photometric redshifts and diagnosis of systematics in the DES Science Verification data*. MNRAS 455, 4301, 2016. arXiv: 1507.05360.
- 2016 15. Gruen, D. et al. *Weak lensing by galaxy troughs in DES Science Verification data*. MNRAS 455, 3367, 2016. arXiv: 1507.05090.
- 2015 16. Abbott, T. et al. *Cosmology from Cosmic Shear with DES Science Verification Data*, 2015. arXiv: 1507.05552.
- 2015 17. Agnello, A. et al. *Discovery of two gravitationally lensed quasars in the Dark Energy Survey*. MNRAS 454, 1260, 2015. arXiv: 1508.01203.
- 2015 18. Balbinot, E. et al. *The LMC geometry and outer stellar populations from early DES data*. MNRAS 449, 1129, 2015. arXiv: 1502.05050.
- 2015 19. Banerji, M. et al. *Combining Dark Energy Survey Science Verification data with near-infrared data from the ESO VISTA Hemisphere Survey*. MNRAS 446, 2523, 2015. arXiv: 1407.3801.
- 2015 20. Bechtol, K. et al. *Eight New Milky Way Companions Discovered in First-year Dark Energy Survey Data*. ApJ 807, 50, 2015. arXiv: 1503.02584.

- 2015 21. Becker, M. R. et al. *Cosmic Shear Measurements with DES Science Verification Data*, 2015. arXiv: 1507.05598.
- 2015 22. Bonnett, C. et al. *Redshift distributions of galaxies in the DES Science Verification shear catalogue and implications for weak lensing*, 2015. arXiv: 1507.05909.
- 2015 23. Chang, C. et al. *Modeling the Transfer Function for the Dark Energy Survey*. ApJ 801, 73, 2015. arXiv: 1411.0032.
- 2015 24. Chang, C. et al. *Wide-Field Lensing Mass Maps from Dark Energy Survey Science Verification Data*. PRL 115(5), 051301, 2015. arXiv: 1505.01871.
- 2015 25. Drlica-Wagner, A. et al. *Eight Ultra-faint Galaxy Candidates Discovered in Year Two of the Dark Energy Survey*. ApJ 813, 109, 2015. arXiv: 1508.03622.
- 2015 26. Drlica-Wagner, A. et al. *Search for Gamma-Ray Emission from DES Dwarf Spheroidal Galaxy Candidates with Fermi-LAT Data*. ApJL 809, L4, 2015. arXiv: 1503.02632.
- 2015 27. Gerdes, D. W. et al. *Observation of Two New L4 Neptune Trojans in the Dark Energy Survey Supernova Fields*, 2015. arXiv: 1507.05177.
- 2015 28. Giannantonio, T. et al. *CMB lensing tomography with the DES Science Verification galaxies*, 2015. arXiv: 1507.05551.
- 2015 29. Goldstein, D. A. et al. *Automated Transient Identification in the Dark Energy Survey*. AJ 150, 82, 2015. (Erratum: AJ 150, 165, 2015). arXiv: 1504.02936.
- 2015 30. Jarvis, M. et al. *The DES Science Verification Weak Lensing Shear Catalogs*, 2015. arXiv: 1507.05603.
- 2015 31. Kessler, R. et al. *The Difference Imaging Pipeline for the Transient Search in the Dark Energy Survey*. AJ 150, 172, 2015. arXiv: 1507.05137.
- 2015 32. Kirk, D. et al. *Cross-correlation of gravitational lensing from DES Science Verification data with SPT and Planck lensing*, 2015. arXiv: 1512.04535.
- 2015 33. Leistedt, B. et al. *Mapping and simulating systematics due to spatially-varying observing conditions in DES Science Verification data*, 2015. arXiv: 1507.05647.
- 2015 34. Melchior, P. et al. *Crowdsourcing quality control for Dark Energy Survey images*, 2015. arXiv: 1511.03391.
- 2015 35. Melchior, P. et al. *Mass and galaxy distributions of four massive galaxy clusters from Dark Energy Survey Science Verification data*. MNRAS 449, 2219, 2015. arXiv: 1405.4285.

- 2015 36. Nord, B. et al. *Observation and Confirmation of Six Strong Lensing Systems in The Dark Energy Survey Science Verification Data*, 2015. arXiv: 1512.03062.
- 2015 37. Papadopoulos, A. et al. *DES13S2cmm: the first superluminous supernova from the Dark Energy Survey*. MNRAS 449, 1215, 2015. arXiv: 1501.07232.
- 2015 38. Park, Y. et al. *Joint Analysis of Galaxy-Galaxy Lensing and Galaxy Clustering: Methodology and Forecasts for DES*, 2015. arXiv: 1507.05353.
- 2015 39. Pieres, A. et al. *Physical properties of star clusters in the outer LMC as observed by the Dark Energy Survey*, 2015. arXiv: 1512.01032.
- 2015 40. Poci, A. et al. *DESAAlert: Enabling Real-Time Transient Follow-Up with Dark Energy Survey Data*, 2015. arXiv: 1504.02996.
- 2015 41. Reed, S. L. et al. *DES J0454-4448: discovery of the first luminous  $z \geq 6$  quasar from the Dark Energy Survey*. MNRAS 454, 3952, 2015. arXiv: 1504.03264.
- 2015 42. Rozo, E. et al. *redMaGiC: Selecting Luminous Red Galaxies from the DES Science Verification Data*, 2015. arXiv: 1507.05460.
- 2015 43. Simon, J. D. et al. *Stellar Kinematics and Metallicities in the Ultra-faint Dwarf Galaxy Reticulum II*. ApJ 808, 95, 2015. arXiv: 1504.02889.
- 2015 44. Vikram, V. et al. *Wide-field lensing mass maps from Dark Energy Survey science verification data: Methodology and detailed analysis*. PRD 92,2, 022006, 2015. arXiv: 1504.03002.
- 2015 45. Yuan, F. et al. *OzDES multifibre spectroscopy for the Dark Energy Survey: first-year operation and results*. MNRAS 452, 3047, 2015. arXiv: 1504.03039.

#### ARTICLES IN CONFERENCE PROCEEDINGS

- 2014 46. Diehl, H. T. et al. *The Dark Energy Survey and operations: Year 1*. SPIE Conference Series. 9149, 91490V, 2014.
- 2014 47. Saro, A. et al. *RedMaPPEr selected clusters from DES science verification data and their SPT-SZE signature*. Euclid Cluster Survey Conference. 23, 2014.
- 2012 48. Flaugher, B. L. et al. *Status of the Dark Energy Survey Camera (DECam) project*. SPIE Conference Series. 8446, 844611, 2012.
- 2012 49. Honscheid, K. et al. *The readout and control system of the Dark Energy Camera*. SPIE Conference Series. 8451, 845112, 2012.

- 2012 50. **Soares-Santos, M.** *Dark energy physics expectations at DES.* TAUP2011, J. of Phys. Conf. Series 375(3), 032006, 2012. arXiv: 1202.1848.
- 2012 51. **Soares-Santos, M.** et al. *DECam Integration Tests on Telescope Simulator.* TIPP2011, Physics Procedia 37, 1445, 2012. arXiv: 1111.4717.
- 2008 52. **Soares-Santos, M.** et al. *Cosmography with Galaxy Clusters.* ICHEP08 Conf. Proc. 2008. arXiv: 0810.3689.
- 2005 53. **Soares-Santos, M.** et al. *Gravitational Waves: A 100-Year Tool Applied to the Dark Energy Problem.* Braz. J. Phys. 35, 1191, 2005.
- 2005 54. **Soares-Santos, M.** et al. *Modeling the Spectrum of Gravitational Waves in the Primordial Universe.* AIP Conf. Proc. 784, 800, 2005. arXiv: gr-qc/0504032.

#### OTHER PUBLICATIONS

- 2013 55. Anderson, J. et al. *Snowmass 2013 Young Physicists Science and Career Survey Report*, 2013. arXiv: 1307.8080.
- 2012 56. Abate, A. et al. *Large Synoptic Survey Telescope: Dark Energy Science Collaboration.* ArXiv e-prints, 2012. arXiv: 1211.0310.
- 2012 57. Abbott, T. et al. *First SN Discoveries from the Dark Energy Survey.* The Astronomer's Telegram 4668, 1, 2012.
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