

Stanford



Risa Wechsler

Director, Kavli Institute for Particle Astrophysics and Cosmology (KIPAC) and Associate Professor of Physics and of Particle Physics and Astrophysics

CONTACT INFORMATION

- **Administrative Contact**

Kelly Carson

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Bio

ACADEMIC APPOINTMENTS

- Associate Professor, Physics
- Associate Professor, Particle Physics and Astrophysics

ADMINISTRATIVE APPOINTMENTS

- Director, Kavli Institute for Particle Astrophysics and Cosmology, (2018- present)
- Assistant Director of Scientific Programs, Kavli Institute of Particle Astrophysics and Cosmology, (2013-2018)
- Co-Spokesperson, Dark Energy Spectroscopic Instrument, (2014-2018)
- Chair, Physics Department Committee on Equity & Inclusion, (2016- present)
- Head, KIPAC Theory Group, SLAC, (2009- present)

HONORS AND AWARDS

- Fellow, American Physical Society (2017)
- Nina C. Crocker Faculty Scholar, Stanford University (2013-2016)
- Hellman Faculty Scholar, Stanford University (2008)
- Frederick E. Terman Fellow, Stanford University (2006-2012)
- Hubble Fellow, NASA (2003-2006)
- Enrico Fermi Fellow, Enrico Fermi Institute, University of Chicago (2003-2005)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Scientific Advisory Committee, Large Synoptic Survey Telescope (2016 - present)
- Advisory Board, Kavli Institute for Theoretical Physics (2015 - present)
- General member, Aspen Center for Physics (2015 - present)
- Member, High Energy Physics Advisory Panel (2015 - 2018)

PROFESSIONAL EDUCATION

- PhD, University of California, Santa Cruz (2001)

- SB, Massachusetts Institute of Technology (1996)

LINKS

- Galaxy Formation & Cosmology Group: <http://www.risawechsler.com>

Teaching

COURSES

2018-19

- The Origin and Development of the Cosmos: PHYSICS 16 (Win)

2017-18

- The Origin and Development of the Cosmos: PHYSICS 16 (Win)

2016-17

- The Origin and Development of the Cosmos: PHYSICS 16 (Win)

2015-16

- Practical Computing for Scientists: PHYSICS 91SI (Spr)
- Special Topics in Astrophysics: Statistical Methods: PHYSICS 366 (Aut)
- The Origin and Development of the Cosmos: PHYSICS 16 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Michael Baumer

Postdoctoral Faculty Sponsor

Alexandra Amon, Kirk Barrow, Gregory Green, Jessica Muir, Yuki Omori

Doctoral Dissertation Advisor (AC)

Joseph DeRose, Nickolas Kokron, Ethan Nadler

Publications

PUBLICATIONS

- **Modeling the Impact of Baryons on Subhalo Populations with Machine Learning** *ASTROPHYSICAL JOURNAL*
Nadler, E. O., Mao, Y., Wechsler, R. H., Garrison-Kimmel, S., Wetzel, A.
2018; 859 (2)
- **Beyond assembly bias: exploring secondary halo biases for cluster-size haloes** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Mao, Y., Zentner, A. R., Wechsler, R. H.
2018; 474 (4): 5143–57
- **The Connection Between Galaxies and Their Dark Matter Halos** *ANNUAL REVIEW OF ASTRONOMY AND ASTROPHYSICS, VOL 56*
Wechsler, R. H., Tinker, J. L., Faber, S. M., VanDishoeck, E.
2018; 56: 435–87
- **THE CONCENTRATION DEPENDENCE OF THE GALAXY-HALO CONNECTION: MODELING ASSEMBLY BIAS WITH ABUNDANCE MATCHING** *ASTROPHYSICAL JOURNAL*
Lehmann, B. V., Mao, Y., Becker, M. R., Skillman, S. W., Wechsler, R. H.
2017; 834 (1)

- **Cosmic shear measurements with Dark Energy Survey Science Verification data** *PHYSICAL REVIEW D*
Becker, M. R., Troxel, M. A., MacCrann, N., Krause, E., Eifler, T. F., Friedrich, O., Nicola, A., Refregier, A., Amara, A., Bacon, D., Bernstein, G. M., Bonnett, C., Bridle, et al
2016; 94 (2)
- **Cosmology from cosmic shear with Dark Energy Survey Science Verification data** *PHYSICAL REVIEW D*
Abbott, T., Abdalla, F. B., Allam, S., Amara, A., Annis, J., Armstrong, R., Bacon, D., Banerji, M., BAUER, A. H., Baxter, E., Becker, M. R., Benoit-Levy, A., Bernstein, et al
2016; 94 (2)
- **DETECTION OF LENSING SUBSTRUCTURE USING ALMA OBSERVATIONS OF THE DUSTY GALAXY SDP. 81** *ASTROPHYSICAL JOURNAL*
Hezaveh, Y. D., Dalal, N., Marrone, D. P., Mao, Y., Morningstar, W., Wen, D., Blandford, R. D., Carlstrom, J. E., Fassnacht, C. D., Holder, G. P., Kembell, A., Marshall, P. J., Murray, et al
2016; 823 (1)
- **CONNECTING CO INTENSITY MAPPING TO MOLECULAR GAS AND STAR FORMATION IN THE EPOCH OF GALAXY ASSEMBLY** *ASTROPHYSICAL JOURNAL*
Li, T. Y., Wechsler, R. H., Devaraj, K., Church, S. E.
2016; 817 (2)
- **EIGHT ULTRA-FAINT GALAXY CANDIDATES DISCOVERED IN YEAR TWO OF THE DARK ENERGY SURVEY** *ASTROPHYSICAL JOURNAL*
Drlica-Wagner, A., Bechtol, K., Rykoff, E. S., Luque, E., Queiroz, A., Mao, Y., Wechsler, R. H., Simon, J. D., Santiago, B., Yanny, B., Balbinot, E., Dodelson, S., Neto, et al
2015; 813 (2)
- **THE DEPENDENCE OF SUBHALO ABUNDANCE ON HALO CONCENTRATION** *ASTROPHYSICAL JOURNAL*
Mao, Y., Williamson, M., Wechsler, R. H.
2015; 810 (1)
- **EIGHT NEW MILKY WAY COMPANIONS DISCOVERED IN FIRST-YEAR DARK ENERGY SURVEY DATA** *ASTROPHYSICAL JOURNAL*
Bechtol, K., Drlica-Wagner, A., Balbinot, E., Pieres, A., Simon, J. D., Yanny, B., Santiago, B., Wechsler, R. H., Frieman, J., Walker, A. R., Williams, P., Rozo, E., Rykoff, et al
2015; 807 (1)
- **COSMOLOGICAL CONSTRAINTS FROM GALAXY CLUSTERING AND THE MASS-TO-NUMBER RATIO OF GALAXY CLUSTERS: MARGINALIZING OVER THE PHYSICS OF GALAXY FORMATION** *ASTROPHYSICAL JOURNAL*
Reddick, R. M., Tinker, J. L., Wechsler, R. H., Lu, Y.
2014; 783 (2)
- **Connecting direct dark matter detection experiments to cosmologically motivated halo models** *PHYSICAL REVIEW D*
Mao, Y., Strigari, L. E., Wechsler, R. H.
2014; 89 (6)
- **THE CONNECTION BETWEEN GALAXIES AND DARK MATTER STRUCTURES IN THE LOCAL UNIVERSE** *ASTROPHYSICAL JOURNAL*
Reddick, R. M., Wechsler, R. H., Tinker, J. L., Behroozi, P. S.
2013; 771 (1)
- **THE AVERAGE STAR FORMATION HISTORIES OF GALAXIES IN DARK MATTER HALOS FROM $z=0-8$** *ASTROPHYSICAL JOURNAL*
Behroozi, P. S., Wechsler, R. H., Conroy, C.
2013; 770 (1)
- **CONNECTING GALAXIES, HALOS, AND STAR FORMATION RATES ACROSS COSMIC TIME** *ASTROPHYSICAL JOURNAL*
Conroy, C., Wechsler, R. H.
2009; 696 (1): 620-635
- **The dependence of halo clustering on halo formation history, concentration, and occupation** *ASTROPHYSICAL JOURNAL*
Wechsler, R. H., Zentner, A. R., Bullock, J. S., Kravtsov, A. V., Allgood, B.
2006; 652 (1): 71-84
- **Spatial clustering of dark matter haloes: secondary bias, neighbour bias, and the influence of massive neighbours on halo properties** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

Salcedo, A. N., Maller, A. H., Berlind, A. A., Sinha, M., McBride, C. K., Behroozi, P. S., Wechsler, R. H., Weinberg, D. H.

2018; 475 (4): 4411–23

- **Mapping extragalactic dark matter annihilation with galaxy surveys: A systematic study of stacked group searches** *PHYSICAL REVIEW D*
Lisanti, M., Mishra-Sharma, S., Rodd, N. L., Safdi, B. R., Wechsler, R. H.
2018; 97 (6)
- **DESCQA: An Automated Validation Framework for Synthetic Sky Catalogs** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Mao, Y., Kovacs, E., Heitmann, K., Uram, T. D., Benson, A. J., Campbell, D., Cora, S. A., DeRose, J., Di Matteo, T., Habib, S., Hearin, A. P., Kalmbach, J., Krughoff, et al
2018; 234 (2)
- **Weak lensing measurement of the mass-richness relation of SDSS redMaPPer clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Simet, M., McClintock, T., Mandelbaum, R., Rozo, E., Rykoff, E., Sheldon, E., Wechsler, R. H.
2017; 466 (3): 3103–3118
- **Farthest Neighbor: The Distant Milky Way Satellite Eridanus II** *ASTROPHYSICAL JOURNAL*
Li, T. S., Simon, J. D., Drlica-Wagner, A., Bechtol, K., Wang, M. Y., Garcia-Bellido, J., Frieman, J., MARSHALL, J. L., James, D. J., Strigari, L., Pace, A. B., Balbinot, E., Zhang, et al
2017; 838 (1)
- **Inference from the small scales of cosmic shear with current and future Dark Energy Survey data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
MacCrann, N., Aleksic, J., Amara, A., Bridle, S. L., Bruderer, C., Chang, C., Dodelson, S., Eifler, T. F., Huff, E. M., Huterer, D., Kacprzak, T., Refregier, A., Suchyta, et al
2017; 465 (3): 2567–2583
- **Galaxy-galaxy lensing in the Dark Energy Survey Science Verification data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Clampitt, J., Sanchez, C., Kwan, J., Krause, E., MacCrann, N., Park, Y., Troxel, M. A., Jain, B., Rozo, E., Rykoff, E. S., Wechsler, R. H., Blazek, J., Bonnett, et al
2017; 465 (4): 4204–4218
- **Cosmic voids and void lensing in the Dark Energy Survey Science Verification data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Sanchez, C., Clampitt, J., Kovacs, A., Jain, B., Garcia-Bellido, J., Nadathur, S., Gruen, D., Hamaus, N., Huterer, D., Vielzeuf, P., Amara, A., Bonnett, C., DeRose, et al
2017; 465 (1): 746–759
- **Cosmology from large-scale galaxy clustering and galaxy-galaxy lensing with Dark Energy Survey Science Verification data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Kwan, J., Sanchez, C., Clampitt, J., Blazek, J., Crocce, M., Jain, B., Zuntz, J., Amara, A., Becker, M. R., Bernstein, G. M., Bonnett, C., DeRose, J., Dodelson, et al
2017; 464 (4): 4045–4062
- **SEARCHING FOR DARK MATTER ANNIHILATION IN RECENTLY DISCOVERED MILKY WAY SATELLITES WITH FERMI-LAT** *ASTROPHYSICAL JOURNAL*
Albert, A., Anderson, B., Bechtol, K., Drlica-Wagner, A., Meyer, M., Sanchez-Conde, M., Strigari, L., Wood, M., Abbott, T. M., Abdalla, F. B., Benoit-Levy, A., Bernstein, G. M., Bernstein, et al
2017; 834 (2)
- **AN ULTRA-FAINT GALAXY CANDIDATE DISCOVERED IN EARLY DATA FROM THE MAGELLANIC SATELLITES SURVEY** *ASTROPHYSICAL JOURNAL LETTERS*
Drlica-Wagner, A., Bechtol, K., Allam, S., Tucker, D. L., Gruendl, R. A., Johnson, M. D., Walker, A. R., James, D. J., Nidever, D. L., Olsen, K. A., Wechsler, R. H., Cioni, M. R., Conn, et al
2016; 833 (1)
- **Cosmic shear as a probe of galaxy formation physics** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Foreman, S., Becker, M. R., Wechsler, R. H.
2016; 463 (3): 3326–3338
- **Constraining the mass-richness relationship of redMaPPer clusters with angular clustering** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Baxter, E. J., Rozo, E., Jain, B., Rykoff, E., Wechsler, R. H.
2016; 463 (1): 205–221

- **THE CONNECTION BETWEEN THE HOST HALO AND THE SATELLITE GALAXIES OF THE MILKY WAY** *ASTROPHYSICAL JOURNAL*
Lu, Y., Benson, A., Mao, Y., Tonnesen, S., Peter, A. H., Wetzel, A. R., Boylan-Kolchin, M., Wechsler, R. H.
2016; 830 (2)
- **Joint measurement of lensing-galaxy correlations using SPT and DES SV data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Baxter, E., Clampitt, J., Giannantonio, T., Dodelson, S., Jain, B., Huterer, D., Bleem, L., Crawford, T., Efstathiou, G., Fosalba, P., Kirk, D., Kwan, J., Sanchez, et al
2016; 461 (4): 4099-4114
- **MAPPING AND SIMULATING SYSTEMATICS DUE TO SPATIALLY VARYING OBSERVING CONDITIONS IN DES SCIENCE VERIFICATION DATA** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Leistedt, B., Peiris, H. V., Elsner, F., Benoit-Levy, A., Amara, A., BAUER, A. H., Becker, M. R., Bonnett, C., Bruderer, C., Busha, M. T., Kind, M. C., Chang, C., Crocce, et al
2016; 226 (2)
- **Joint analysis of galaxy-galaxy lensing and galaxy clustering: Methodology and forecasts for Dark Energy Survey** *PHYSICAL REVIEW D*
Park, Y., Krause, E., Dodelson, S., Jain, B., Amara, A., Becker, M. R., Bridle, S. L., Clampitt, J., Crocce, M., Fosalba, P., Gaztanaga, E., Honscheid, K., Rozo, et al
2016; 94 (6)
- **redMaGiC: selecting luminous red galaxies from the DES Science Verification data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Roza, E., Rykoff, E. S., Abate, A., Bonnett, C., Crocce, M., Davis, C., Hoyle, B., Leistedt, B., Peiris, H. V., Wechsler, R. H., Abbott, T., Abdalla, F. B., Banerji, et al
2016; 461 (2): 1431-1450
- **Redshift distributions of galaxies in the Dark Energy Survey Science Verification shear catalogue and implications for weak lensing** *PHYSICAL REVIEW D*
Bonnett, C., Troxel, M. A., Hartley, W., Amara, A., Leistedt, B., Becker, M. R., Bernstein, G. M., Bridle, S. L., Bruderer, C., Busha, M. T., Kind, M. C., Childress, M. J., Castander, et al
2016; 94 (4)
- **Galaxy cluster mass estimation from stacked spectroscopic analysis** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Farahi, A., Evrard, A. E., Roza, E., Rykoff, E. S., Wechsler, R. H.
2016; 460 (4): 3900-3912
- **The Dark Energy Survey: more than dark energy - an overview** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Abbott, T., Abdalla, F. B., Aleksic, J., Allam, S., Amara, A., Bacon, D., Balbinot, E., Banerji, M., Bechtol, K., Benoit-Levy, A., Bernstein, G. M., Bertin, E., Blazek, et al
2016; 460 (2): 1270-1299
- **The DES Science Verification weak lensing shear catalogues** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Jarvis, M., Sheldon, E., Zuntz, J., Kacprzak, T., Bridle, S. L., Amara, A., Armstrong, R., Becker, M. R., Bernstein, G. M., Bonnett, C., Chang, C., Das, R., Dietrich, et al
2016; 460 (2): 2245-2281
- **LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW 150914** *ASTROPHYSICAL JOURNAL LETTERS*
Abbott, B. P., Abbott, R., Abbott, T. D., ABERNATHY, M. R., Acernese, F., Ackley, K., Adams, C., Adams, T., Addesso, P., Adhikari, R. X., Adya, V. B., Affeldt, C., Agathos, et al
2016; 826 (1)
- **Rhapsody-G simulations - II. Baryonic growth and metal enrichment in massive galaxy clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Martizzi, D., Hahn, O., Wu, H., Evrard, A. E., Teyssier, R., Wechsler, R. H.
2016; 459 (4): 4408-4427
- **SUPPLEMENT: "LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914" (2016, ApJL, 826, L13)** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Abbott, B. P., Abbott, R., Abbott, T. D., ABERNATHY, M. R., Acernese, F., Ackley, K., Adams, C., Adams, T., Addesso, P., Adhikari, R. X., Adya, V. B., Affeldt, C., Agathos, et al
2016; 225 (1)
- **Cross-correlation of gravitational lensing from DES Science Verification data with SPT and Planck lensing** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

Kirk, D., Omori, Y., Benoit-Levy, A., Cawthon, R., Chang, C., Larsen, P., Amara, A., Bacon, D., Crawford, T. M., Dodelson, S., Fosalba, P., Giannantonio, T., Holder, et al

2016; 459 (1): 21-34

- **A DARK ENERGY CAMERA SEARCH FOR AN OPTICAL COUNTERPART TO THE FIRST ADVANCED LIGO GRAVITATIONAL WAVE EVENT GW150914** *ASTROPHYSICAL JOURNAL LETTERS*
Soares-Santos, M., Kessler, R., Berger, E., Annis, J., BROUT, D., Buckley-Geer, E., Chen, H., Cowperthwaite, P. S., Diehl, H. T., Doctor, Z., Drlica-Wagner, A., FARR, B., Finley, et al
2016; 823 (2)
- **THE SPITZER-HETDEX EXPLORATORY LARGE-AREA SURVEY** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Papovich, C., Shipley, H. V., Mehrtens, N., Lanham, C., Lacy, M., Ciardullo, R., Finkelstein, S. L., Bassett, R., Behroozi, P., Blanc, G. A., de Jong, R. S., DePoy, D. L., Drory, et al
2016; 224 (2)
- **A DARK ENERGY CAMERA SEARCH FOR MISSING SUPERGIANTS IN THE LMC AFTER THE ADVANCED LIGO GRAVITATIONAL-WAVE EVENT GW150914** *ASTROPHYSICAL JOURNAL LETTERS*
Annis, J., Soares-Santos, M., Berger, E., BROUT, D., Chen, H., Chornock, R., Cowperthwaite, P. S., Diehl, H. T., Doctor, Z., Drlica-Wagner, A., Drout, M. R., FARR, B., Finley, et al
2016; 823 (2)
- **THE REDMAPPER GALAXY CLUSTER CATALOG FROM DES SCIENCE VERIFICATION DATA** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Rykoff, E. S., Rozo, E., HOLLOWOOD, D., Bermeo-Hernandez, A., Jeltama, T., Mayers, J., Romer, A. K., Rooney, P., Saro, A., Cervantes, C. V., Wechsler, R. H., Wilcox, H., Abbott, et al
2016; 224 (1)
- **THE EATING HABITS OF MILKY WAY-MASS HALOS: DESTROYED DWARF SATELLITES AND THE METALLICITY DISTRIBUTION OF ACCRETED STARS** *ASTROPHYSICAL JOURNAL*
Deason, A. J., Mao, Y., Wechsler, R. H.
2016; 821 (1)
- **SPOKES: An end-to-end simulation facility for spectroscopic cosmological surveys** *ASTRONOMY AND COMPUTING*
Nord, B., Amara, A., Refregier, A., Gamper, L., Gamper, L., Hambrecht, B., Chang, C., Forero-Romero, J. E., Serrano, S., Cunha, C., COLES, O., Nicola, A., Busha, et al
2016; 15: 1-15
- **No galaxy left behind: accurate measurements with the faintest objects in the Dark Energy Survey** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Suchyta, E., Huff, E. M., Aleksic, J., Melchior, P., Jouvel, S., Maccrann, N., Ross, A. J., Crocce, M., Gaztanaga, E., Honscheid, K., Leistedt, B., Peiris, H. V., Rykoff, et al
2016; 457 (1): 786-808
- **Disentangling redshift-space distortions and non-linear bias using the 2D power spectrum** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Jennings, E., Wechsler, R. H., Skillman, S. W., Warren, M. S.
2016; 457 (1): 1076-1088
- **CMB lensing tomography with the DES Science Verification galaxies** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Giannantonio, T., Fosalba, P., Cawthon, R., Omori, Y., Crocce, M., Elsner, F., Leistedt, B., Dodelson, S., Benoit-Levy, A., Gaztanaga, E., Holder, G., Peiris, H. V., Percival, et al
2016; 456 (3): 3213-3244
- **Galaxy clustering, photometric redshifts and diagnosis of systematics in the DES Science Verification data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Crocce, M., Carretero, J., BAUER, A. H., Ross, A. J., Sevilla-Noarbe, I., Giannantonio, T., Sobreira, F., Sanchez, J., Gaztanaga, E., Kind, M. C., Sanchez, C., Bonnett, C., Benoit-Levy, et al
2016; 455 (4): 4301-4324
- **Weak lensing by galaxy troughs in DES Science Verification data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Gruen, D., Friedrich, O., Amara, A., Bacon, D., Bonnett, C., Hartley, W., Jain, B., Jarvis, M., Kacprzak, T., Krause, E., Mana, A., Rozo, E., Rykoff, et al
2016; 455 (3): 3367-3380

- **DES J0454-4448: discovery of the first luminous $z \geq 6$ quasar from the Dark Energy Survey** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Reed, S. L., McMahon, R. G., Banerji, M., Becker, G. D., Gonzalez-Solares, E., Martini, P., Ostrovski, F., Rauch, M., Abbott, T., Abdalla, F. B., Allam, S., Benoit-Levy, A., Bertin, et al
2015; 454 (4): 3952-3961
- **Constraints on the richness-mass relation and the optical-SZE positional offset distribution for SZE-selected clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Saro, A., Bocquet, S., Rozo, E., Benson, B. A., Mohr, J., Rykoff, E. S., Soares-Santos, M., Bleem, L., Dodelson, S., Melchior, P., Sobreira, F., Upadhyay, V., Weller, et al
2015; 454 (3): 2305-2319
- **Discovery of two gravitationally lensed quasars in the Dark Energy Survey** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Agnello, A., Treu, T., Ostrovski, F., Schechter, P. L., Buckley-Geer, E. J., Lin, H., Auger, M. W., Courbin, F., Fassnacht, C. D., Frieman, J., Kuropatkin, N., Marshall, P. J., McMahon, et al
2015; 454 (2): 1260-1265
- **redMaPper - IV. Photometric membership identification of red cluster galaxies with 1 per cent precision** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Roza, E., Rykoff, E. S., Becker, M., Reddick, R. M., Wechsler, R. H.
2015; 453 (1): 38-52
- **OzDES multifibre spectroscopy for the Dark Energy Survey: first-year operation and results** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Yuan, F., Lidman, C., Davis, T. M., Childress, M., Abdalla, F. B., Banerji, M., Buckley-Geer, E., Carnero Rosell, A., Carollo, D., Castander, F. J., D'Andrea, C. B., Diehl, H. T., Cunha, et al
2015; 452 (3): 3047-3063
- **RHAPSODY-G simulations: galaxy clusters as baryonic closed boxes and the covariance between hot gas and galaxies** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Wu, H., Evrard, A. E., Hahn, O., Martizzi, D., Teyssier, R., Wechsler, R. H.
2015; 452 (2): 1982-1991
- **SEARCH FOR GAMMA-RAY EMISSION FROM DES DWARF SPHEROIDAL GALAXY CANDIDATES WITH FERMI-LAT DATA** *ASTROPHYSICAL JOURNAL LETTERS*
Drlica-Wagner, A., Albert, A., Bechtol, K., Wood, M., Strigari, L., Sanchez-Conde, M., Baldini, L., Essig, R., Cohen-Tanugi, J., Anderson, B., Bellazzini, R., Bloom, E. D., Caputo, et al
2015; 809 (1)
- **Wide-Field Lensing Mass Maps from Dark Energy Survey Science Verification Data.** *Physical review letters*
Chang, C., Vikram, V., Jain, B., Bacon, D., Amara, A., Becker, M. R., Bernstein, G., Bonnett, C., Bridle, S., BROUT, D., Busha, M., Frieman, J., Gaztanaga, et al
2015; 115 (5): 051301-?
- **Wide-field lensing mass maps from Dark Energy Survey science verification data: Methodology and detailed analysis** *PHYSICAL REVIEW D*
Vikram, V., Chang, C., Jain, B., Bacon, D., Amara, A., Becker, M. R., Bernstein, G., Bonnett, C., Bridle, S., BROUT, D., Busha, M., Frieman, J., Gaztanaga, et al
2015; 92 (2)
- **Wide-Field Lensing Mass Maps from Dark Energy Survey Science Verification Data** *PHYSICAL REVIEW LETTERS*
Chang, C., Vikram, V., Jain, B., Bacon, D., Amara, A., Becker, M. R., Bernstein, G., Bonnett, C., Bridle, S., BROUT, D., Busha, M., Frieman, J., Gaztanaga, et al
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- **STELLAR KINEMATICS AND METALLICITIES IN THE ULTRA-FAINT DWARF GALAXY RETICULUM II** *ASTROPHYSICAL JOURNAL*
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