Stanford



Aaron Roodman

Professor of Particle Physics and Astrophysics

Bio

BIO

Aaron Roodman is a professor of Particle Physics & Astrophysics here at the SLAC National Accelerator Laboratory, specializing in observational cosmology. Trained in experimental particle physics, he spent two decades studying differences between Matter and antiMatter at both Fermilab and here at SLAC with the Babar experiment, before turning his research to astrophysics and cosmology initially with the Dark Energy Survey. He played a major role in the construction of the LSST Camera, the world's largest digital camera, and was the leader of the LSST Camera program and Deputy Director of the Rubin Observatory during its commissioning phase. Currently he is the Deputy Head of the Legacy Survey of Space Time as part of Rubin Observatory operations and his current research focuses on the study of Dark Energy via gravitational lensing.

ACADEMIC APPOINTMENTS

- Professor, Particle Physics and Astrophysics

ADMINISTRATIVE APPOINTMENTS

- Department Chair, Particle Physics & Astrophysics, (2015-2020)

HONORS AND AWARDS

- Fellow, American Physical Society, Division of Particles & Fields (2012)

PROFESSIONAL EDUCATION

- B.S. with Honors, California Institute of Technology , Physics (1985)
- Ph.D., University of Chicago , Physics (1991)

LINKS

- Aaron Roodman's web site: https://web.stanford.edu/~roodman/

Research & Scholarship

PROJECTS

- Rubin Observatory

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Haley Stueber

Postdoctoral Faculty Sponsor

Rebecca Chen, Shunsheng Li

Doctoral Dissertation Advisor (AC)

Jamar Kittling, Zhuoqi Zhang

Postdoctoral Research Mentor

Rebecca Chen

Publications

PUBLICATIONS

- **Lens Model Accuracy in the Expected LSST Lensed AGN Sample** *ASTRONOMICAL JOURNAL*
  Venkatraman, P., Erickson, S., Marshall, P., Millon, M., Holloway, P., Birrer, S., Dillmann, S., Huang, X., Jaragula, S., Kaehler, R., Khadka, N., Madejski, G., Mitra, et al
  2026; 172 (4)
- **Multi-tracer cross-correlations of the unresolved γ-ray sky** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Thakore, B. A., Regis, M., Negro, M., Camera, S., Gruen, D., Fornengo, N., Roodman, A. J.
  2026
- **The Vera C. Rubin Observatory Data Preview 1** *ASTRONOMICAL JOURNAL*
  Acero-Cuellar, T., Acosta, E., Adair, C. L., Adari, P., Adelman-McCarthy, J. K., Alexov, A., Allbery, R., Allsman, R., AlSayyad, Y., Amado, J., Amouroux, N., Antilogus, P., Aracena Alcayaga, et al
  2026; 171 (6)
- **Discovering Strong Gravitational Lenses in the Dark Energy Survey with Interactive Machine Learning and Crowd-sourced Inspection with Space Warps** *ASTROPHYSICAL JOURNAL*
  Gonzalez, J., Holloway, P., Collett, T., Verma, A., Bechtol, K., Marshall, P., More, A., Acevedo Barroso, J., Cartwright, G., Martinez, M., Li, T., Rojas, K., Schuldt, et al
  2026; 1002 (2)
- **NSF-DOE Vera C. Rubin Observatory Observations of Interstellar Comet 3I/ATLAS (C/2025 N1)** *ASTROPHYSICAL JOURNAL LETTERS*
  Chandler, C., Bernardinelli, P. H., Juric, M., Singh, D., Hsieh, H. H., Sullivan, I., Jones, R., Kurlander, J. A., Vavilov, D., Eggl, S., Holman, M., Spoto, F., Schwamb, et al
  2026; 1001 (2)
- **Study of χ_{b1,2} → ω(sic)(2)(1S) transitions in (sic)(3S) → γχ_{b1,2} (2P) decays at BABAR** *PHYSICAL REVIEW D*
  Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Brown, D. N., Kolomensky, Y. G., Fritsch, M., Koch, H., Cheaib, R., Hearty, C., Mattison, et al
  2026; 113 (5)
- **photoD with Rubin's Data Preview 1: First stellar photometric distances and faint blue star deficits Stellar distances with Rubin's DP1** *ASTRONOMY & ASTROPHYSICS*
  Palaversa, L., Donev, E., Ivezic, Z., Mrakovcic, K., Caplar, N., Juricc, M., Jurkic, T., Campos, S., Delucchi, M., Jones, D., Malanchev, K., Malz, A. I., Mcguire, et al
  2026; 707
- **Dark Energy Survey Year 6 Results: Photometric Dataset for Cosmology** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Bechtol, K., Sevilla-Noarbe, I., Drlica-Wagner, A., Yanny, B., Gruendl, R. A., Sheldon, E., Rykoff, E. S., De Vicente, J., Adamow, M., Anbajagane, D., Becker, M. R., Bernstein, G. M., Carnero Rosell, et al
  2026; 282 (2)
- **Deploying AI for active optics control of the Vera C. Rubin Observatory**
  Crenshaw, J., Tohfa, H., Ma, P., Connolly, A. J., Kalmbach, J., Suberlak, K., Bloom, J., Bechtol, K., Fisher-Levine, M., Lage, C. S., Homar, G., Meyers, J. E., Polen, et al
  edited by Jackson, K. J., Schmidt, D., Vernet, E.

SPIE-INT SOC OPTICAL ENGINEERING.2026

- **An overview of stray light findings and interpretation during on-sky commissioning of LSSTCam**
  Rodeghiero, G., Drlica-Wagner, A., Taranto, A., Rosignoli, L., Pollek, H., Pai, A., Jones, L., Howard, E., MacBride, S., Andrew, J., Neill, D., Lange, T., Rasmussen, et al
  edited by Marshall, H. K., Usuda, T., Onodera, B., Spyromilio, J.
  SPIE-INT SOC OPTICAL ENGINEERING.2026

- **LSSTCam Installation and Commissioning at the Vera C. Rubin Observatory**
  Fanning, K., Antilogus, P., Aubourg, E., Banovetz, J. D., Bernard, A., Bond, T., Boucaud, A., Bowdish, B., Bregeon, J., Breugnon, P., Chiang, J., Daubard, G., Digel, et al
  edited by Marshall, H. K., Usuda, T., Onodera, B., Spyromilio, J.
  SPIE-INT SOC OPTICAL ENGINEERING.2026

- **Rubin Optical System Integration and Commissioning**
  Thomas, S. J., Homar, G., Urbach, E., Roodman, A., Bechtol, K., Colleoni, F., Connolly, A. J., Crenshaw, J., Dennihy, E., Kalmbach, J., Meyer, J., Neill, D. R., Park, et al
  edited by Marshall, H. K., Usuda, T., Onodera, B., Spyromilio, J.
  SPIE-INT SOC OPTICAL ENGINEERING.2026

- **First Temperature Profile of a Stellar Flare Using Differential Chromatic Refraction** *ASTROPHYSICAL JOURNAL LETTERS*
  Clarke, R. W., Bianco, F., Davenport, J. R. A., Cooke, J., Webb, S., Andreoni, I., Pritchard, T., Roodman, A.
  2025; 993 (1)

- **Lens Modeling of STRIDES Strongly Lensed Quasars Using Neural Posterior Estimation** *ASTRONOMICAL JOURNAL*
  Erickson, S., Wagner-Carena, S., Marshall, P., Millon, M., Birrer, S., Roodman, A., Schmidt, T., Treu, T., Schuldt, S., Shajib, A. J., Venkatraman, P., LSST Dark Energy Sci Collaboration
  2025; 170 (1)

- **High-significance detection of correlation between the unresolved gamma-ray background and the large-scale cosmic structure** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Thakore, B., Negro, M., Regis, M., Camera, S., Gruen, D., Fornengo, N., Roodman, A., Porredon, A., Schutt, T., Cuoco, A., Alarcon, A., Amon, A., Bechtol, et al
  2025

- **Superclustering with the Atacama Cosmology Telescope and Dark Energy Survey. II. Anisotropic Large-scale Coherence in Hot Gas, Galaxies, and Dark Matter** *ASTROPHYSICAL JOURNAL*
  Lokken, M., van Engelen, A., Aguena, M., Allam, S. S., Anbajagane, D., Bacon, D., Baxter, E., Blazek, J., Bocquet, S., Bond, J. R., Brooks, D., Calabrese, E., Rosell, et al
  2025; 982 (2)

- **Search for baryogenesis and dark matter in B⁺ → Λ_c⁺ + invisible decays** *PHYSICAL REVIEW D*
  Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Brown, D. N., Kolomensky, Y. G., Fritsch, M., Koch, H., Cheaib, R., Hearty, C., Mattison, et al
  2025; 111 (3)

- **"Weather" in the LSST camera: investigating patterns in differenced flat images** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*
  Banovetz, J., Utsumi, Y., Meyers, J., Beleznay, M., Rasmussen, A., Roodman, A.
  2025; 11 (1)

- **The Dark Energy Survey: Cosmology Results with #1500 New High-redshift Type Ia Supernovae Using the Full 5 yr Data Set** *ASTROPHYSICAL JOURNAL LETTERS*
  Abbott, T. C., Acevedo, M., Aguena, M., Alarcon, A., Allam, S., Alves, O., Amon, A., Andrade-Oliveira, F., Annis, J., Armstrong, P., Asorey, J., Avila, S., Bacon, et al
  2024; 973 (1)

- **Model-independent extraction of form factors and |V_{cb}| in (B)over-bar → Dl⁻(v)over-bar_l with hadronic tagging at BABAR** *PHYSICAL REVIEW D*
  Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Brown, D. N., Kolomensky, Y. G., Fritsch, M., Koch, H., Cheaib, R., Hearty, C., Mattison, et al

2024; 110 (3)

- **Mitigation of the Brighter-fatter Effect in the LSST Camera** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC*
  Broughton, A., Utsumi, Y., Plazas Malagon, A. A., Waters, C., Lage, C., Snyder, A., Rasmussen, A., Marshall, S., Chiang, J., Murgia, S., Roodman, A.
  2024; 136 (4)

- **LSST Camera Focal Plane Optimization**
  Utsumi, Y., Antilogus, P., Astier, P., Banovetz, J., Bradshaw, A. K., Bregeon, J., Broughton, A., Chiang, J., Combet, C., Dargaud, G., Digel, S. W., Esteves, J., Guillemin, et al
  edited by Holland, A. D., Minoglou, K.
  SPIE-INT SOC OPTICAL ENGINEERING.2024

- **Logistics and outcomes of the Rubin Observatory LSST Camera shipment**
  Lopez, M., Hascall, D., Homar, G., Bustos, H., Lange, T., Logue, M., Nordby, M., Osier, S., Reil, K., Roodman, A., Shugart, A., Stalder, B.
  edited by Benn, C. R., Chrysostomou, A., Storrie-Lombardi, L. J.
  SPIE-INT SOC OPTICAL ENGINEERING.2024

- **Integrating the LSST Camera**
  Lange, T., Nordby, M., Pollek, H., Osier, S., Bowdish, B., Hascall, D., Lopez, M., Newbry, S. P., Lazarte, J., Thayer, G., Neal, H., Lee, V., Silva, et al
  edited by Motohara, K., Vernet, Bryant, J. J.
  SPIE-INT SOC OPTICAL ENGINEERING.2024

- **Photometry, Centroid and Point-spread Function Measurements in the LSST Camera Focal Plane Using Artificial Stars** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC*
  Esteves, J. H., Utsumi, Y., Snyder, A., Schutt, T., Broughton, A., Trbalic, B., Mau, S., Rasmussen, A., Malagon, A., Bradshaw, A., Marshall, S., Digel, S., Chiang, et al
  2023; 135 (1053)

- **Hierarchical Inference of the Lensing Convergence from Photometric Catalogs with Bayesian Graph Neural Networks** *ASTROPHYSICAL JOURNAL*
  Park, J., Birrer, S., Ueland, M., Cranmer, M., Agnello, A., Wagner-Carena, S. J., Marshall, P. J., Roodman, A., LSST Dark Energy Sci Collaboration
  2023; 953 (2)

- **Dark energy survey year 3 results: cosmological constraints from the analysis of cosmic shear in harmonic space** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Doux, C., Jain, B., Zeurcher, D., Lee, J., Fang, X., Rosenfeld, R., Amon, A., Camacho, H., Choi, A., Secco, L. F., Blazek, J., Chang, C., Gatti, et al
  2022; 515 (2): 1942-1972

- **DeepZipper: A Novel Deep-learning Architecture for Lensed Supernovae Identification** *ASTROPHYSICAL JOURNAL*
  Morgan, R., Nord, B., Bechtol, K., Gonzalez, S. J., Buckley-Geer, E., Moller, A., Park, J. W., Kim, A. G., Birrer, S., Aguena, M., Annis, J., Bocquet, S., Brooks, et al
  2022; 927 (1)

- **Characterization and correction of serial deferred charge in LSST camera ITL CCDs** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*
  Snyder, A., Longley, E., Lage, C., Digel, S., Neal, H., Utsumi, Y., Roodman, A.
  2021; 7 (4)

- **Dark energy survey year 1 results: Constraining baryonic physics in the Universe** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Huang, H., Eifler, T., Mandelbaum, R., Bernstein, G. M., Chen, A., Choi, A., Garcia-Bellido, J., Huterer, D., Krause, E., Rozo, E., Singh, S., Bridle, S., DeRose, et al
  2021; 502 (4): 6010–31

- **Large-scale Gravitational Lens Modeling with Bayesian Neural Networks for Accurate and Precise Inference of the Hubble Constant** *ASTROPHYSICAL JOURNAL*
  Park, J., Wagner-Carena, S., Birrer, S., Marshall, P. J., Lin, J., Roodman, A.
  2021; 910 (1)

- **The LSST DESC DC2 Simulated Sky Survey** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*

Abolfathi, B., Alonso, D., Armstrong, R., Aubourg, E., Awan, H., Babuji, Y. N., Bauer, F., Bean, R., Beckett, G., Biswas, R., Bogart, J. R., Boutigny, D., Chard, et al
2021; 253 (1)

- **Hierarchical Inference with Bayesian Neural Networks: An Application to Strong Gravitational Lensing** *ASTROPHYSICAL JOURNAL*
  Wagner-Carena, S., Park, J., Birrer, S., Marshall, P. J., Roodman, A., Wechsler, R. H., LSST Dark Energy Sci Collaboration
  2021; 909 (2)
- **Discovery of a candidate binary supermassive black hole in a periodic quasar from circumbinary accretion variability** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Liao, W., Chen, Y., Liu, X., Holgado, A., Guo, H., Gruendl, R., Morganson, E., Shen, Y., Davis, T., Kessler, R., Martini, P., McMahon, R. G., Allam, et al
  2021; 500 (3): 4025–41
- **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*
  Guo, H., Burke, C. J., Liu, X., Phadke, K. A., Zhang, K., Chen, Y., Gruendl, R. A., Lidman, C., Shen, Y., Morganson, E., Aguena, M., Allam, S., Avila, et al
  2020; 496 (3): 3636–47
- **Investigation of deferred charge effects in Large Synoptic Survey Telescope ITL sensors** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*
  Snyder, A., Roodman, A.
  2019; 5 (4)
- **LSST: From Science Drivers to Reference Design and Anticipated Data Products** *ASTROPHYSICAL JOURNAL*
  Ivezic, Z., Kahn, S. M., Tyson, J., Abel, B., Acosta, E., Allsman, R., Alonso, D., AlSayyad, Y., Anderson, S. F., Andrew, J., Angel, J. P., Angeli, G. Z., Ansari, et al
  2019; 873 (2)
- **LSST Camera - Integration & Test Subsystem: Planning and Status**
  Bond, T., Roodman, A., Reil, K., Lange, T., Nordby, M., Newbry, S., Lopez, M., Bowdish, B., Lee, V., Hascall, D., Munoz, J., Marshall, S., Rasmussen, et al
  edited by Angeli, G. Z., Dierickx, P.
  SPIE-INT SOC OPTICAL ENGINEERING.2018
- **Acceptance Testing for LSST Camera Raft Tower Modules**
  Lopez, M., Marshall, S., Bond, T., Haupt, J., Johnson, T., Neal, H., O'Connor, P., Rasmussen, A., Roodman, A., Takacs, P., Utsumi, Y.
  edited by Evans, C. J., Simard, L., Takami, H.
  SPIE-INT SOC OPTICAL ENGINEERING.2018
- **LSST Camera Bench for Optical Testing: Design, Assembly, and Preliminary Testing**
  Newbry, S., Lange, T., Roodman, A., Reil, K., Bond, T., Rasmussen, A., Bowdish, B., Snyder, A., Rosenberg, E., Lee, V.
  edited by Evans, C. J., Simard, L., Takami, H.
  SPIE-INT SOC OPTICAL ENGINEERING.2018
- **Optimization of CCD operating voltages for the LSST camera**
  Snyder, A., Gilmore, K., Roodman, A.
  edited by Holland, A. D., Beletic, J.
  SPIE-INT SOC OPTICAL ENGINEERING.2018
- **Is Flat Fielding Safe for Precision CCD Astronomy?** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC*
  Baumer, M., Davis, C. P., Roodman, A.
  2017; 129 (978)
- **Detection of the kinematic Sunyaev-Zel'dovich effect with DES Year 1 and SPT** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Soergel, B., Flender, S., Story, K. T., Bleem, L., Giannantonio, T., Efstathiou, G., Rykoff, E., Benson, B. A., Crawford, T., Dodelson, S., Habib, S., Heitmann, K., Holder, et al
  2016; 461 (3): 3172-3193

- **redMaGiC: selecting luminous red galaxies from the DES Science Verification data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

  Rozo, 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

- **Physical properties of star clusters in the outer LMC as observed by the DES** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

  Pieres, A., Santiago, B., Balbinot, E., Luque, E., Queiroz, A., da Costa, L. N., Maia, M. A., Drlica-Wagner, A., Roodman, A., Abbott, T. M., Allam, S., Benoit-Levy, A., Bertin, et al

  2016; 461 (1): 519-541

- **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

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- **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

- **Search for a muonic dark force at BABAR** *PHYSICAL REVIEW D*

  Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Brown, D. N., Kolomensky, Y. G., Koch, H., Schroeder, T., Hearty, C., Mattison, T. S., McKenna, et al

  2016; 94 (1)

- **Tests of CPT symmetry in B-0-(B)over-bar(0) mixing and in B-0 -> c(c)over-barK(0) decays** *PHYSICAL REVIEW D*

  Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Brown, D. N., Kolomensky, Y. G., Koch, H., Schroeder, T., Hearty, C., Mattison, T. S., McKenna, et al

  2016; 94 (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)

- **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)

- **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*

  Chang, C., Pujol, A., Gaztanaga, E., Amara, A., Refregier, A., Bacon, D., Becker, M. R., Bonnett, C., Carretero, J., Castander, F. J., Crocce, M., Fosalba, P., Giannantonio, et al

  2016; 459 (3): 3203-3216

- **Measurement of the neutral D meson mixing parameters in a time-dependent amplitude analysis of the D-0 -> pi(+)pi(-)pi(0) decay** *PHYSICAL REVIEW D*

Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Brown, D. N., Kolomensky, Y. G., Koch, H., Schroeder, T., Hearty, C., Mattison, T. S., McKenna, et al

2016; 93 (11)

- **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)

- **ASSESSMENT OF SYSTEMATIC CHROMATIC ERRORS THAT IMPACT SUB-1% PHOTOMETRIC PRECISION IN LARGE-AREA SKY SURVEYS** *ASTRONOMICAL JOURNAL*

  Li, T. S., DePoy, D. L., MARSHALL, J. L., Tucker, D., Kessler, R., Annis, J., Bernstein, G. M., Boada, S., Burke, D. L., Finley, D. A., James, D. J., Kent, S., Lin, et al

  2016; 151 (6)

- **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)

- **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*

  Luque, E., Queiroz, A., Santiago, B., Pieres, A., Balbinot, E., Bechtol, K., Drlica-Wagner, A., Fausti Neto, A., da Costa, L. N., Maia, M. A., Yanny, B., Abbott, T., Allam, et al

  2016; 458 (1): 603-612

- **Time-dependent analysis of B-0 -> K-S(0)pi(-)pi(+)gamma decays and studies of the K+pi(-)pi(+) system in B+ -> K+pi(-)pi(+)gamma decays** *PHYSICAL REVIEW D*

  Sanchez, P. d., Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lee, M. J., Lynch, et al

  2016; 93 (5)

- **Measurement of angular asymmetries in the decays B -> K*l(+) l(+)** *PHYSICAL REVIEW D*

  Lees, J. P., Poireau, V., Tisserand, V., Grauges, E., Palano, A., Eigen, G., Stugu, B., Brown, D. N., Kerth, L. T., Kolomensky, Y. G., Lee, M. J., Lynch, G., Koch, et al

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