

Stanford



Aaron Roodman

Professor of Particle Physics and Astrophysics

Bio

BIO

Aaron Roodman is a professor of Particle Physics & Astrophysics at Stanford's SLAC National Accelerator Laboratory. Trained in experimental particle physics, he spent two decades studying differences between Matter and antiMatter, before turning his research to astrophysics and cosmology. Roodman's current research focuses on the study of Dark Energy using images from large optical telescope surveys, such as the Dark Energy Survey and the upcoming Legacy Survey of Space and Time. He is also responsible for the assembly and testing of the world's largest digital camera, the Vera C. Rubin Observatory's LSST Camera.

ACADEMIC APPOINTMENTS

- Professor, Particle Physics and Astrophysics

ADMINISTRATIVE APPOINTMENTS

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

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: <http://www.slac.stanford.edu/~roodman>

Research & Scholarship

PROJECTS

- Large Synoptic Survey Telescope

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Sidney Mau

Doctoral Dissertation Advisor (AC)

Sydney Erickson, Jamie McCullough, Theo Schutt

Publications

PUBLICATIONS

- **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., Roza, 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., Agüena, 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
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., Evans, C. J., Simard, et al
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., Evans, C. J., Simard, L., Takami, et al
SPIE-INT SOC OPTICAL ENGINEERING.2018
- **Optimization of CCD operating voltages for the LSST camera**
Snyder, A., Gilmore, K., Roodman, A., 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*
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
- **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
2016; 94 (4)
- **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 - \bar{B}^0 mixing and in $B^0 \rightarrow c\bar{c}$ 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 $D^0 \rightarrow \pi^+\pi^-\pi^0$ 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 $B^0 \rightarrow K^*S(0)\pi^-\pi^+\gamma$ decays and studies of the $K^+\pi^-\pi^+$ system in $B^+ \rightarrow K^+\pi^-\pi^+\gamma$ 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 $B \rightarrow K^*l^+l^-$** *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
2016; 93 (5)
 - **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
 - **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
 - **DES14X3taz: A TYPE I SUPERLUMINOUS SUPERNOVA SHOWING A LUMINOUS, RAPIDLY COOLING INITIAL PRE-PEAK BUMP** *ASTROPHYSICAL JOURNAL LETTERS*

- Smith, M., Sullivan, M., D'Andrea, C. B., Castander, F. J., Casas, R., Prajs, S., Papadopoulos, A., Nichol, R. C., Karpenka, N. V., BERNARD, S. R., BROWN, P., Cartier, R., Cooke, et al
2016; 818 (1)
- **Search for mixing-induced CP violation using partial reconstruction of $(B)\overline{\text{B}} \rightarrow D^{*+}Xl^-(\nu)\overline{\text{B}} \text{ and kaon tagging}$** *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
2016; 93 (3)
 - **OBSERVATION OF TWO NEW L4 NEPTUNE TROJANS IN THE DARK ENERGY SURVEY SUPERNOVA FIELDS** *ASTRONOMICAL JOURNAL*
Gerdes, D. W., Jennings, R. J., Bernstein, G. M., Sako, M., Adams, E., Goldstein, D., Kessler, R., Hamilton, S., Abbott, T., Abdalla, E. B., Allam, S., Benoit-Levy, A., Bertin, et al
2016; 151 (2)
 - **DISCOVERY OF A STELLAR OVERDENSITY IN ERIDANUS-PHOENIX IN THE DARK ENERGY SURVEY** *ASTROPHYSICAL JOURNAL*
Li, T. S., Balbinot, E., Mondrik, N., MARSHALL, J. L., Yanny, B., Bechtol, K., Drlica-Wagner, A., Oscar, D., Santiago, B., Simon, J. D., Vivas, A. K., Walker, A. R., Wang, et al
2016; 817 (2)
 - **Observation of $B[\overline{\text{B}}] \rightarrow D^{*+}p^+p^-l^-\nu$ Decays in e^+e^- Collisions at the $\Upsilon(4S)$ Resonance.** *Physical review letters*
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
2016; 116 (4): 041801-?
 - **Observation of $(B)\overline{\text{B}} \rightarrow D^{*0} \pi^+\pi^-\nu$ Decays in e^+e^- Collisions at the Upsilon(4S) Resonance** *PHYSICAL REVIEW LETTERS*
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
2016; 116 (4)
 - **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
 - **Measurement of the $I=1/2$ $K \pi$ S-wave amplitude from Dalitz plot analyses of $\eta(c) \rightarrow K(K)\overline{\text{B}} \pi$ in two-photon interactions** *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 (1)
 - **GALAXIES IN X-RAY SELECTED CLUSTERS AND GROUPS IN DARK ENERGY SURVEY DATA. I. STELLAR MASS GROWTH OF BRIGHT CENTRAL GALAXIES SINCE z similar to 1.2** *ASTROPHYSICAL JOURNAL*
Zhang, Y., Miller, C., McKay, T., Rooney, P., Evrard, A. E., Romer, A. K., Perfecto, R., Song, J., Desai, S., Mohr, J., Wilcox, H., Bermeo-Hernandez, A., Jeltema, et al
2016; 816 (2)
 - **Wavefront-based PSF estimation**
Davis, C. P., Rodriguez, J., Roodman, A., Hall, H. J., Gilmozzi, R., Marshall, H. K.
SPIE-INT SOC OPTICAL ENGINEERING.2016
 - **Integration and Verification Testing of the Large Synoptic Survey Telescope Camera**
Lange, T., Bond, T., Chiang, J., Gilmore, D. K., Digel, S. W., Dubois, R., Glanzman, T., Johnson, T., Lopez, M., Newbry, S. P., Nordby, M. E., Rasmussen, A. P., Reil, et al
SPIE-INT SOC OPTICAL ENGINEERING.2016
 - **Comparison of LSST and DECam Wavefront Recovery Algorithms**
Xin, B., Roodman, A., Angeli, G., Claver, C., Thomas, S., Hall, H. J., Gilmozzi, R., Marshall, H. K.
SPIE-INT SOC OPTICAL ENGINEERING.2016
 - **Temporal characterization of Zernike decomposition of atmospheric turbulence**
Snyder, A., Srinath, S., Macintosh, B., Roodman, A., Hall, H. J., Gilmozzi, R., Marshall, H. K.
SPIE-INT SOC OPTICAL ENGINEERING.2016

- **Collins asymmetries in inclusive charged KK and $K\pi$ pairs produced in e^+e^- annihilation** *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
2015; 92 (11)
- **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
- **THE DIFFERENCE IMAGING PIPELINE FOR THE TRANSIENT SEARCH IN THE DARK ENERGY SURVEY** *ASTRONOMICAL JOURNAL*
Kessler, R., Marriner, J., Childress, M., Covarrubias, R., D'Andrea, C. B., Finley, D. A., Fischer, J., Foley, R. J., Goldstein, D., Gupta, R. R., Kuehn, K., Marcha, M., Nichol, et al
2015; 150 (6)
- **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 DARK ENERGY CAMERA** *ASTRONOMICAL JOURNAL*
Flaugher, B., Diehl, H. T., Honscheid, K., Abbott, T. M., Alvarez, O., Angstadt, R., Annis, J. T., Antonik, M., Ballester, O., Beaufore, L., Bernstein, G. M., Bernsteing, R. A., Bigelow, et al
2015; 150 (5)
- **Measurement of initial-state-final-state radiation interference in the processes $e^+e^- \rightarrow \mu^+\mu^-\gamma$ and $e^+e^- \rightarrow \pi^+\pi^-\gamma$** *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
2015; 92 (7)
- **Study of the $e^+e^- \rightarrow K^+K^-$ reaction in the energy range from 2.6 to 8.0 GeV** *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
2015; 92 (7)
- **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
- **First Observation of CP Violation in $(B)\overline{B}(0) \rightarrow D(CP)((*)h(0)$ Decays by a Combined Time-Dependent Analysis of BABAR and Belle Data** *PHYSICAL REVIEW LETTERS*
Abdesselam, A., Adachi, I., Adametz, A., Auye, T., Ahmed, H., Aihara, H., Akar, S., Alam, M. S., Albert, J., Al Said, S., Andreassen, R., Angelini, C., Anulli, et al
2015; 115 (12)
- **AUTOMATED TRANSIENT IDENTIFICATION IN THE DARK ENERGY SURVEY** *ASTRONOMICAL JOURNAL*
Goldstein, D. A., D'Andrea, C. B., Fischer, J. A., Foley, R. J., Gupta, R. R., Kessler, R., Kim, A. G., Nichol, R. C., Nugent, P. E., Papadopoulos, A., Sako, M., Smith, M., Sullivan, et al

2015; 150 (3)

- **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: 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., Buscha, M., Frieman, J., Gaztanaga, et al
2015; 92 (2)
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