

# Stanford

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## Roger Blandford

Luke Blossom Professor in the School of Humanities and Sciences, and Professor of Physics and of Particle Physics and Astrophysics

 Curriculum Vitae available Online

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### Bio

#### ACADEMIC APPOINTMENTS

- Professor, Physics
- Professor, Particle Physics and Astrophysics

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### Teaching

#### COURSES

##### 2023-24

- Cosmology and Extragalactic Astrophysics: PHYSICS 361 (Win)
- Special Topics in Astrophysics: Extreme Astrophysics: PHYSICS 367 (Spr)

##### 2022-23

- General Relativity: PHYSICS 262 (Spr)

##### 2021-22

- General Relativity: PHYSICS 262 (Spr)

##### 2020-21

- Black Holes and Extreme Astrophysics: PHYSICS 17 (Aut)
- General Relativity: PHYSICS 262 (Win)

#### STANFORD ADVISEES

##### Doctoral Dissertation Reader (AC)

Bryen Irving

##### Doctoral Dissertation Co-Advisor (AC)

Andrew Sullivan

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### Publications

#### PUBLICATIONS

- **Ergomagnetosphere, ejection disc, magnetopause in M87-I. Global flow of mass, angular momentum, energy, and current** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Blandford, R., Globus, N.  
2022; 514 (4): 5141-5158

- **Strong suppression of heat conduction in a laboratory replica of galaxy-cluster turbulent plasmas.** *Science advances*  
Meinecke, J., Tzeferacos, P., Ross, J. S., Bott, A. F., Feister, S., Park, H., Bell, A. R., Blandford, R., Berger, R. L., Bingham, R., Casner, A., Chen, L. E., Foster, et al  
2022; 8 (10): eabj6799
- **Polarized Radiation and the Emergence of Biological Homochirality on Earth and Beyond** *ASTROPHYSICAL JOURNAL*  
Globus, N., Fedynitch, A., Blandford, R. D.  
2021; 910 (2)
- **H0LiCOW-XIII. A 2.4 per cent measurement of H-0 from lensed quasars: 5.3 sigma tension between early- and late-Universe probes** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Wong, K. C., Suyu, S. H., Chen, G., Rusu, C. E., Millon, M., Sluse, D., Bonvin, V., Fassnacht, C. D., Taubenberger, S., Auger, M. W., Birrer, S., Chan, J. H., Courbin, et al  
2020; 498 (1): 1420–39
- **Post-pandemic science and education** *AMERICAN JOURNAL OF PHYSICS*  
Blandford, R. D., Thorne, K. S.  
2020; 88 (7): 518–20
- **The Chiral Puzzle of Life** *ASTROPHYSICAL JOURNAL LETTERS*  
Globus, N., Blandford, R. D.  
2020; 895 (1)
- **Coming of age of the standard model** *NATURE ASTRONOMY*  
Blandford, R., Dunkley, J., Frenk, C., Lahav, O., Shapley, A.  
2020; 4 (2): 122–23
- **GeV-TeV Counterparts of SS 433/W50 from Fermi-LAT and HAWC Observations** *ASTROPHYSICAL JOURNAL LETTERS*  
Fang, K., Charles, E., Blandford, R. D.  
2020; 889 (1)
- **Data-driven Reconstruction of Gravitationally Lensed Galaxies Using Recurrent Inference Machines** *ASTROPHYSICAL JOURNAL*  
Morningstar, W. R., Levasseur, L., Hezaveh, Y. D., Blandford, R., Marshall, P., Putzky, P., Rueter, T. D., Wechsler, R., Welling, M.  
2019; 883 (1)
- **Black hole magnetosphere with small-scale flux tubes - II. Stability and dynamics** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Yuan, Y., Spitkovsky, A., Blandford, R. D., Wilkins, D. R.  
2019; 487 (3): 4114–27
- **Possible Detection of Gamma-Rays from Epsilon Eridani** *ASTROPHYSICAL JOURNAL*  
Riley, A. H., Strigari, L. E., Porter, T. A., Blandford, R. D., Murgia, S., Kerr, M., Johannesson, G.  
2019; 878 (1)
- **Characterizing the Gamma-Ray Variability of the Brightest Flat Spectrum Radio Quasars Observed with the Fermi LAT** *ASTROPHYSICAL JOURNAL*  
Meyer, M., Scargle, J. D., Blandford, R. D.  
2019; 877 (1)
- **Black hole magnetosphere with small-scale flux tubes** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Yuan, Y., Blandford, R. D., Wilkins, D. R.  
2019; 484 (4): 4920–32
- **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)
- **A cool accretion disk around the Galactic Centre black hole.** *Nature*  
Murchikova, E. M., Phinney, E. S., Pancoast, A. n., Blandford, R. D.  
2019; 570 (7759): 83–86
- **Relativistic Jets from Active Galactic Nuclei** *ANNUAL REVIEW OF ASTRONOMY AND ASTROPHYSICS, VOL 57, 2019*

Blandford, R., Meier, D., Readhead, A., Faber, S. M., VanDishoeck, E., Kennicutt, R. C.

2019; 57: 467–509

- **Detection of polarized gamma-ray emission from the Crab nebula with the Hitomi Soft Gamma-ray Detector** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (6)
- **Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A** *SCIENCE*  
Aartsen, M. G., Ackermann, M., Adams, J., Aguilar, J. A., Ahlers, M., Ahrens, M., Al Samarai, I., Altmann, D., Andeen, K., Anderson, T., Anseau, I., Anton, G., Arguelles, et al  
2018; 361 (6398): 146+
- **Hitomi X-ray observation of the pulsar wind nebula G21.5-0.9** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (3)
- **The first detection of neutral hydrogen in emission in a strong spiral lens** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Lipnicky, A., Chakrabarti, S., Wright, M. H., Blitz, L., Heiles, C., Cotton, W., Frayer, D., Blandford, R., Shu, Y., Bolton, A. S.  
2018; 476 (3): 3097–3105
- **Hitomi X-ray studies of Giant Radio Pulses from the Crab pulsar.** *Publications of the Astronomical Society of Japan. Nihon Tenmon Gakkai*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
- **Hitomi (ASTRO-H) X-ray Astronomy Satellite** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*  
Takahashi, T., Kokubun, M., Mitsuda, K., Kelley, R. L., Ohashi, T., Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Anabuki, N., Angelini, L., Arnaud, K., Asai, et al  
2018; 4 (2)
- **Design and performance of Soft Gamma-ray Detector onboard the Hitomi (ASTRO-H) satellite** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*  
Tajima, H., Watanabe, S., Fukazawa, Y., Blandford, R., Enoto, T., Goldwurm, A., Hagino, K., Hayashi, K., Ichinohe, Y., Kataoka, J., Katsuta, J., Kitaguchi, T., Kokubun, et al  
2018; 4 (2)
- **Multiwavelength Observations of Relativistic Jets from General Relativistic Magnetohydrodynamic Simulations** *GALAXIES*  
Anantua, R., Blandford, R., Tchekhovskoy, A.  
2018; 6 (1)
- **Temperature structure in the Perseus cluster core observed with Hitomi** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
- **Hitomi observation of radio galaxy NGC 1275: The first X-ray microcalorimeter spectroscopy of Fe-K alpha line emission from an active galactic nucleus** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
- **Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
- **Search for thermal X-ray features from the Crab nebula with the Hitomi soft X-ray spectrometer** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*

- Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
- **Atomic data and spectral modeling constraints from high-resolution X-ray observations of the Perseus cluster with Hitomi** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
  - **Glimpse of the highly obscured HMXB IGR J16318-4848 with Hitomi** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
  - **Atmospheric gas dynamics in the Perseus cluster observed with Hitomi** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
  - **Hitomi X-ray studies of giant radio pulses from the Crab pulsar** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
  - **Hitomi observations of the LMC SNR N 132 D: Highly redshifted X-ray emission from iron ejecta** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2018; 70 (2)
  - **Einstein@Home discovers a radio-quiet gamma-ray millisecond pulsar** *SCIENCE ADVANCES*  
Clark, C. J., Pletsch, H. J., Wu, J., Guillemot, L., Kerr, M., Johnson, T. J., Camilo, F., Salvetti, D., Allen, B., Anderson, D., Aulbert, C., Beer, C., Bock, et al  
2018; 4 (2)
  - **Einstein@Home discovers a radio-quiet gamma-ray millisecond pulsar.** *Science advances*  
Clark, C. J., Pletsch, H. J., Wu, J., Guillemot, L., Kerr, M., Johnson, T. J., Camilo, F., Salvetti, D., Allen, B., Anderson, D., Aulbert, C., Beer, C., Bock, et al  
2018; 4 (2): eaao7228
  - **Solar abundance ratios of the iron-peak elements in the Perseus cluster** *NATURE*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al  
2017; 551 (7681): 478+
  - **Gamma-ray blazar spectra with HESS II mono analysis: The case of PKS2155-304 and PG1553+113** *ASTRONOMY & ASTROPHYSICS*  
Abdalla, H., Abramowski, A., Aharonian, F., Benkhali, F. A., Akhperjanian, A. G., Andersson, T., Anguener, E. O., Arrieta, M., Aubert, P., Backes, M., Balzer, A., Barnard, M., Becherini, et al  
2017; 600
  - **Hitomi Constraints on the 3.5 keV Line in the Perseus Galaxy Cluster** *ASTROPHYSICAL JOURNAL LETTERS*  
Aharonian, F. A., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Arnaud, K. A., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R. D., Bulbul, et al  
2017; 837 (1)
  - **Gamma-Ray Blazars within the First 2 Billion Years** *ASTROPHYSICAL JOURNAL LETTERS*  
Ackermann, M., Ajello, M., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Gonzalez, J. B., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Bottacini, et al  
2017; 837 (1)
  - **SEARCHING THE GAMMA-RAY SKY FOR COUNTERPARTS TO GRAVITATIONAL WAVE SOURCES: FERMI GAMMA-RAY BURST MONITOR. AND LARGE AREA TELESCOPE OBSERVATIONS OF LVT151012 AND GW151226** *ASTROPHYSICAL JOURNAL*

- Racusin, J. L., Burns, E., Goldstein, A., Connaughton, V., Wilson-Hodge, C. A., Jenke, P., Blackburn, L., Briggs, M. S., BROIDA, J., Camp, J., Christensen, N., Hui, C. M., Littenberg, et al  
2017; 835 (1)
- **The Future of Black Hole Astrophysics in the LIGO-VIRGO-LPF Era**  
Blandford, R., Anantua, R., IOP  
IOP PUBLISHING LTD.2017
  - **FIRST NuSTAR OBSERVATIONS OF THE BL LAC-TYPE BLAZAR PKS 2155-304: CONSTRAINTS ON THE JET CONTENT AND DISTRIBUTION OF RADIATING PARTICLES** *ASTROPHYSICAL JOURNAL*  
Madejski, G. M., Nalewajko, K., Madsen, K. K., Chiang, J., Balokovic, M., Paneque, D., Furniss, A. K., Hayashida, M., Urry, C. M., Sikora, M., Ajello, M., Blandford, R. D., Harrison, et al  
2016; 831 (2)
  - **KINETIC STUDY OF RADIATION-REACTION-LIMITED PARTICLE ACCELERATION DURING THE RELAXATION OF UNSTABLE FORCE-FREE EQUILIBRIA** *ASTROPHYSICAL JOURNAL*  
Yuan, Y., Nalewajko, K., Zrake, J., East, W. E., Blandford, R. D.  
2016; 828 (2)
  - **KINETIC SIMULATIONS OF THE LOWEST-ORDER UNSTABLE MODE OF RELATIVISTIC MAGNETOSTATIC EQUILIBRIA** *ASTROPHYSICAL JOURNAL*  
Nalewajko, K., Zrake, J., Yuan, Y., East, W. E., Blandford, R. D.  
2016; 826 (2)
  - **FERMI LARGE AREA TELESCOPE DETECTION OF EXTENDED GAMMA-RAY EMISSION FROM THE RADIO GALAXY FORNAX A** *ASTROPHYSICAL JOURNAL*  
Ackermann, M., Ajello, M., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Brandt, T. J., Bregeon, et al  
2016; 826 (1)
  - **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)
  - **The quiescent intracluster medium in the core of the Perseus cluster** *NATURE*  
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Anabuki, N., Angelini, L., Arnaud, K., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M., Blandford, et al  
2016; 535 (7610): 117-?
  - **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)
  - **MINUTE-TIMESCALE > 100 MeV gamma-RAY VARIABILITY DURING THE GIANT OUTBURST OF QUASAR 3C 279 OBSERVED BY FERMI-LAT IN 2015 JUNE** *ASTROPHYSICAL JOURNAL LETTERS*  
Ackermann, M., Anantua, R., Asano, K., Baldini, L., Barbiellini, G., Bastieri, D., Gonzalez, J. B., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Bottacini, et al  
2016; 824 (2)
  - **FERMI-LAT OBSERVATIONS OF THE LIGO EVENT GW150914** *ASTROPHYSICAL JOURNAL LETTERS*  
Ackermann, M., Ajello, M., Albert, A., Anderson, B., Arimoto, M., Atwood, W. B., Axelsson, M., Baldini, L., Ballet, J., Barbiellini, G., Baring, M. G., Bastieri, D., Gonzalez, et al  
2016; 823 (1)
  - **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)

- **THE FIRST FERMI LAT SUPERNOVA REMNANT CATALOG** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*  
Acero, F., Ackermann, M., Ajello, M., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Bottacini, et al  
2016; 224 (1)
- **Search for Spectral Irregularities due to Photon-Axionlike-Particle Oscillations with the Fermi Large Area Telescope** *PHYSICAL REVIEW LETTERS*  
Ajello, M., Albert, A., Anderson, B., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Bottacini, E., Bregeon, et al  
2016; 116 (16)
- **Resolving the Extragalactic gamma-Ray Background above 50 GeV with the Fermi Large Area Telescope** *PHYSICAL REVIEW LETTERS*  
Ackermann, M., Ajello, M., Albert, A., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, et al  
2016; 116 (15)
- **Measurement of the high-energy gamma-ray emission from the Moon with the Fermi Large Area Telescope** *PHYSICAL REVIEW D*  
Ackermann, M., Ajello, M., Albert, A., Atwood, W. B., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bonino, R., Bottacini, E., Bregeon, et al  
2016; 93 (8)
- **CONTEMPORANEOUS BROADBAND OBSERVATIONS OF THREE HIGH-REDSHIFT BL LAC OBJECTS** *ASTROPHYSICAL JOURNAL*  
Ackermann, M., Ajello, M., An, H., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bonino, R., Bregeon, J., Britto, R. J., Bruel, et al  
2016; 820 (1)
- **SEARCH FOR GAMMA-RAY EMISSION FROM THE COMA CLUSTER WITH SIX YEARS OF FERMI-LAT DATA** *ASTROPHYSICAL JOURNAL*  
Ackermann, M., Ajello, M., Albert, A., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Bissaldi, E., Blandford, R. D., Blooms, et al  
2016; 819 (2)
- **MULTIWALENGTH STUDY OF QUIESCENT STATES OF Mrk 421 WITH UNPRECEDENTED HARD X-RAY COVERAGE PROVIDED BY NuSTAR IN 2013** *ASTROPHYSICAL JOURNAL*  
Balokovic, M., Paneque, D., Madejski, G., Furniss, A., Chiang, J., Ajell, M., Alexander, D. M., Barret, D., Blandford, R. D., Boggs, S. E., Christensen, F. E., Craig, W. W., Forster, et al  
2016; 819 (2)
- **FERMI-LAT OBSERVATIONS OF HIGH-ENERGY gamma-RAY EMISSION TOWARD THE GALACTIC CENTER** *ASTROPHYSICAL JOURNAL*  
Ajello, M., Albert, A., Atwood, W. B., Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Bottacini, E., Brandt, et al  
2016; 819 (1)
- **2FHL: THE SECOND CATALOG OF HARD FERMI-LAT SOURCES** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*  
Ackermann, M., Ajello, M., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Gonzalez, J. B., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, et al  
2016; 222 (1)
- **VERY HIGH ENERGY gamma-RAYS FROM THE UNIVERSE'S MIDDLE AGE: DETECTION OF THE  $z=0.940$  BLAZAR PKS 1441+25 WITH MAGIC** *ASTROPHYSICAL JOURNAL LETTERS*  
Ahnen, M. L., Ansoldi, S., Antonelli, L. A., Antoranz, P., Babic, A., Banerjee, B., Bangale, P., de Almeida, U. B., Barrio, J. A., Bednarek, W., Bernardini, E., Biasuzzi, B., Biland, et al  
2015; 815 (2)
- **On the implications of recent observations of the inner knot in the Crab nebula** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Yuan, Y., Blandford, R. D.  
2015; 454 (3): 2754-2769
- **Searching for Dark Matter Annihilation from Milky Way Dwarf Spheroidal Galaxies with Six Years of Fermi Large Area Telescope Data** *PHYSICAL REVIEW LETTERS*  
Ackermann, M., Albert, A., Anderson, B., Atwood, W. B., Baldini, L., Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, et al  
2015; 115 (23)

- **MULTIWAVELENGTH EVIDENCE FOR QUASI-PERIODIC MODULATION IN THE GAMMA-RAY BLAZAR PG 1553+113** *ASTROPHYSICAL JOURNAL LETTERS*  
Ackermann, M., Ajello, M., Albert, A., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Gonzalez, J. B., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, et al  
2015; 813 (2)
- **CHARACTERIZATION OF THE INNER KNOT OF THE CRAB: THE SITE OF THE GAMMA-RAY FLARES?** *ASTROPHYSICAL JOURNAL*  
Rudy, A., Horns, D., Deluca, A., Kolodziejczak, J., Tennant, A., Yuan, Y., Buehler, R., Arons, J., Blandford, R., Caraveo, P., Costa, E., Funk, S., Hays, et al  
2015; 811 (1)
- **THE THIRD CATALOG OF ACTIVE GALACTIC NUCLEI DETECTED BY THE FERMI LARGE AREA TELESCOPE** *ASTROPHYSICAL JOURNAL*  
Ackermann, M., Ajello, M., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Gonzalez, J. B., Bellazzini, R., Bialdi, E., Blandford, R. D., Bloom, E. D., Bnino, et al  
2015; 810 (1)
- **Spontaneous Decay of Periodic Magnetostatic Equilibria** *PHYSICAL REVIEW LETTERS*  
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