


# 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

##### 2018-19

- Black Holes and Extreme Astrophysics: PHYSICS 17 (Spr)

##### 2017-18

- Black Holes: Fact and Fancy: PHYSICS 12N (Win)
- Cosmology: PHYSICS 361 (Aut)

##### 2016-17

- Continuum Mechanics: PHYSICS 211 (Win)

##### 2015-16

- Cosmology: PHYSICS 361 (Win)
- Special Topics in Astrophysics: High-Energy Astrophysics: PHYSICS 367 (Spr)

#### STANFORD ADVISEES

##### Doctoral Dissertation Reader (AC)

Anna Ogorzalek, Adam Wright

##### Postdoctoral Faculty Sponsor

Ke Fang, Krista Smith, Dan Wilkins

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### Publications

#### PUBLICATIONS

- **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 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)
- **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)
- **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)
- **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)
- **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)
- **MULTIWAVELENGTH 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., Antonanz, 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*  
East, W. E., Zrake, J., Yuan, Y., Blandford, R. D.  
2015; 115 (9)
- **Spontaneous Decay of Periodic Magnetostatic Equilibria.** *Physical review letters*  
East, W. E., Zrake, J., Yuan, Y., Blandford, R. D.  
2015; 115 (9): 095002-?
- **SEARCH FOR EARLY GAMMA-RAY PRODUCTION IN SUPERNOVAE LOCATED IN A DENSE CIRCUMSTELLAR MEDIUM WITH THE FERMI LAT** *ASTROPHYSICAL JOURNAL*  
Ackermann, M., Arcavi, I., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bonino, R., Bottacini, E., Brandt, T. J., Bregeon, et al  
2015; 807 (2)
- **RAPID VARIABILITY OF BLAZAR 3C 279 DURING FLARING STATES IN 2013-2014 WITH JOINT FERMI-LAT, NuSTAR, SWIFT, AND GROUND-BASED MULTI-WAVELENGTH OBSERVATIONS** *ASTROPHYSICAL JOURNAL*  
Hayashida, M., Nalewajko, K., Madejski, G. M., Sikora, M., Itoh, R., Ajello, M., Blandford, R. D., Buson, S., Chiang, J., Fukazawa, Y., Furniss, A. K., Urry, C. M., Hasan, et al  
2015; 807 (1)
- **Updated search for spectral lines from Galactic dark matter interactions with pass 8 data from the Fermi Large Area Telescope** *PHYSICAL REVIEW D*  
Ackermann, M., Ajello, M., Albert, A., Anderson, B., Atwood, W. B., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, et al  
2015; 91 (12)
- **FERMI LARGE AREA TELESCOPE THIRD SOURCE CATALOG** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*  
Acero, F., Ackermann, M., Ajello, M., Albert, A., Atwood, W. B., Axelsson, M., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Belfiore, A., Bellazzini, R., Bissaldi, et al  
2015; 218 (2)
- **A century of general relativity: astrophysics and cosmology.** *Science*  
Blandford, R. D.  
2015; 347 (6226): 1103-1108
- **GAMMA-RAY FLARING ACTIVITY FROM THE GRAVITATIONALLY LENSED BLAZAR PKS 1830-211 OBSERVED BY Fermi LAT** *ASTROPHYSICAL JOURNAL*

- Abdo, A. A., Ackermann, M., Ajello, M., Allafort, A., Amin, M. A., Baldini, L., Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Blandford, R. D., Bonamente, E., Borgland, et al  
2015; 799 (2)
- **PROBING THE INNER KILOPARSEC OF MASSIVE GALAXIES WITH STRONG GRAVITATIONAL LENSING** *ASTROPHYSICAL JOURNAL LETTERS*  
Hezaveh, Y. D., Marshall, P. J., Blandford, R. D.  
2015; 799 (2)
  - **THE SPECTRUM OF ISOTROPIC DIFFUSE GAMMA-RAY EMISSION BETWEEN 100 MeV AND 820 GeV** *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., Bloom, et al  
2015; 799 (1)
  - **The variability of the Crab nebula in radio: no radio counterpart to gamma-ray flares** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Bietenholz, M. F., Yuan, Y., Buehler, R., Lobanov, A. P., Blandford, R.  
2015; 446 (1): 205-217
  - **THE SPECTRUM AND MORPHOLOGY OF THE FERMI BUBBLES** *ASTROPHYSICAL JOURNAL*  
Ackermann, M., Albert, A., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bottacini, E., Brandt, et al  
2014; 793 (1)
  - **Fermi establishes classical novae as a distinct class of gamma-ray sources** *SCIENCE*  
Ackermann, M., Ajello, M., Albert, A., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bottacini, E., Brandt, et al  
2014; 345 (6196): 554-558
  - **COSMOLOGY FROM GRAVITATIONAL LENS TIME DELAYS AND PLANCK DATA** *ASTROPHYSICAL JOURNAL LETTERS*  
Suyu, S. H., Treu, T., Hilbert, S., Sonnenfeld, A., Auger, M. W., Blandford, R. D., Collett, T., Courbin, F., Fassnacht, C. D., Koopmans, L. V., Marshall, P. J., Meylan, G., Spiniello, et al  
2014; 788 (2)
  - **The surprising Crab pulsar and its nebula: a review** *REPORTS ON PROGRESS IN PHYSICS*  
Buehler, R., Blandford, R.  
2014; 77 (6)
  - **Inferred cosmic-ray spectrum from Fermi large area telescope  $\gamma$ -ray observations of Earth's limb.** *Physical review letters*  
Ackermann, M., Ajello, M., Albert, A., Allafort, A., Baldini, L., Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Blandford, R. D., Bloom, E. D., Bonamente, E., Bottacini, et al  
2014; 112 (15): 151103-?
  - **Inferred Cosmic-Ray Spectrum from Fermi Large Area Telescope gamma-Ray Observations of Earth's Limb** *PHYSICAL REVIEW LETTERS*  
Ackermann, M., Ajello, M., Albert, A., Allafort, A., Baldini, L., Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Blandford, R. D., Bloom, E. D., Bonamente, E., Bottacini, et al  
2014; 112 (15)
  - **Fermi LARGE AREA TELESCOPE OBSERVATIONS OF BLAZAR 3C 279 OCCULTATIONS BY THE SUN** *ASTROPHYSICAL JOURNAL*  
Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Blandford, R. D., Borgland, A. W., Bregeon, J., Bruel, P., Buehler, R., Buson, S., Caliendo, G. A., Cameron, R. A., Caraveo, et al  
2014; 784 (2)
  - **Weighing the Giants - I. Weak-lensing masses for 51 massive galaxy clusters: project overview, data analysis methods and cluster images** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
von der Linden, A., Allen, M. T., Applegate, D. E., Kelly, P. L., Allen, S. W., Ebeling, H., Burchat, P. R., Burke, D. L., Donovan, D., Morris, R. G., Blandford, R., Erben, T., Mantz, et al  
2014; 439 (1): 2-27
  - **FERMI LARGE AREA TELESCOPE DETECTION OF GRAVITATIONAL LENS DELAYED gamma-RAY FLARES FROM BLAZAR B0218+357** *ASTROPHYSICAL JOURNAL LETTERS*  
Cheung, C. C., Larsson, S., Scargle, J. D., Amin, M. A., Blandford, R. D., Bulmash, D., Chiang, J., Ciprini, S., Corbet, R. H., Falco, E. E., Marshall, P. J., Wood, D. L., Ajello, et al

2014; 782 (2)

- **Adiabatic evolution of mass-losing stars** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
Dai, L., Blandford, R. D., Eggleton, P. P.  
2013; 434 (4): 2940-2947
- **Roche accretion of stars close to massive black holes** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*  
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