Stanford



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

Bio

ACADEMIC APPOINTMENTS

- Professor, Physics
- Professor, Particle Physics and Astrophysics

Teaching

COURSES

2026-27

- Modern Astrophysics: PHYSICS 360 (Spr)
- Radiative Processes in Astrophysics Radiation, Transport & Acceleration of Particles in Astrophysics: PHYSICS 363 (Win)

2025-26

- Modern Fluid Dynamics: PHYSICS 211 (Aut)

2024-25

- General Relativity: PHYSICS 262 (Win)

2023-24

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

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Jack Dinsmore, Tatiana Smorodnikova, Chloe Taylor

Postdoctoral Faculty Sponsor

Dylan Jow, Navin Sridhar

Doctoral Dissertation Advisor (AC)

Kenji Maeda

Doctoral (Program)

Natascha Barac, Ningyue Fan, Daniel Fu, Cooper Jacobus, Xuanwei Liang, Jinseo Park, Malayne Perry, George Witt, Xinyue Alice Zhang

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.
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- **Strong suppression of heat conduction in a laboratory replica of galaxy-cluster turbulent plasmas.** *Science advances*
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- **Polarized Radiation and the Emergence of Biological Homochirality on Earth and Beyond** *ASTROPHYSICAL JOURNAL*
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- **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. 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.
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- **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.
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- **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.
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- **Black hole magnetosphere with small-scale flux tubes** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Yuan, Y., Blandford, R. D., Wilkins, D. R.

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- **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
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- **A cool accretion disk around the Galactic Centre black hole.** *Nature*
  Murchikova, E. M., Phinney, E. S., Pancoast, A. n., Blandford, R. D.
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- **Relativistic Jets from Active Galactic Nuclei** *ANNUAL REVIEW OF ASTRONOMY AND ASTROPHYSICS, VOL 57, 2019*
  Blandford, R., Meier, D., Readhead, A.
  edited by 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
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- **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., Ansseau, I., Anton, G., Arguelles, et al
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- **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
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- **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. C. H., Blitz, L., Heiles, C., Cotton, W., Frayer, D., Blandford, R., Shu, Y., Bolton, A. S.
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- **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
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  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
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- **Design and performance of Soft Gamma-ray Detector onboard the Hitomi (ASTRO-H) satellite** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*
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  2018; 4 (2)

- **Multiwavelength Observations of Relativistic Jets from General Relativistic Magnetohydrodynamic Simulations** *GALAXIES*
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- **Temperature structure in the Perseus cluster core observed with Hitomi** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
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- **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*
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- **Measurements of resonant scattering in the Perseus Cluster core with Hitomi SXS** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
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- **Search for thermal X-ray features from the Crab nebula with the Hitomi soft X-ray spectrometer** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
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- **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*
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- **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
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- **Hitomi X-ray studies of giant radio pulses from the Crab pulsar** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
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  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
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- **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
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- **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

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- **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

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- **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

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- **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

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- **KINETIC STUDY OF RADIATION-REACTION-LIMITED PARTICLE ACCELERATION DURING THE RELAXATION OF UNSTABLE FORCE-FREE EQUILIBRIA** *ASTROPHYSICAL JOURNAL*

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- **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

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- **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

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- **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

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- **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

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- **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*
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- **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
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- **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., Kemball, A., Marshall, P. J., Murray, et al
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- **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
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- **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
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- **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
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- **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*
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- **SEARCH FOR GAMMA-RAY EMISSION FROM THE COMA CLUSTER WITH SIX YEARS OF FERMI-LAT DATA** *ASTROPHYSICAL JOURNAL*
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- **MULTIWAVELENGTH STUDY OF QUIESCENT STATES OF Mrk 421 WITH UNPRECEDENTED HARD X-RAY COVERAGE PROVIDED BY NuSTAR IN 2013** *ASTROPHYSICAL JOURNAL*
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- **2FHL: THE SECOND CATALOG OF HARD FERMI-LAT SOURCES** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
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- **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*
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- **Searching for Dark Matter Annihilation from Milky Way Dwarf Spheroidal Galaxies with Six Years of Fermi Large Area Telescope Data** *PHYSICAL REVIEW LETTERS*
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- **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
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  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
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- **THE THIRD CATALOG OF ACTIVE GALACTIC NUCLEI DETECTED BY THE FERMI LARGE AREA TELESCOPE** *ASTROPHYSICAL JOURNAL*
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