



Maria Elena Monzani

Lead Scientist, SLAC National Accelerator Laboratory

Bio

CURRENT ROLE AT STANFORD

Lead Scientist, LUX-ZEPLIN Dark Matter Experiment
Kavli Institute for Particle Astrophysics and Cosmology
SLAC National Accelerator Laboratory

HONORS AND AWARDS

- Artificial Intelligence Research in High Energy Physics, DOE-HEP (2023)
- Reaching a New Energy Sciences Workforce, DOE-HEP (2022)
- Laboratory Directed Research and Development, SLAC (2022)
- Adjunct Scholar, Vatican Observatory, Vatican City State (2021)
- Exascale Science Applications Award (NESAP), NERSC (2019)
- LUX-ZEPLIN Operations Support to SLAC, DOE-HEP (2019)
- NERSC Mission Science Allocation Award, DOE-HEP (2018)
- Group Achievement Award, Fermi Science Team, NASA (2010)

EDUCATION AND CERTIFICATIONS

- PhD, Université Paris 7 - Denis Diderot (2005)
- PhD, Università degli Studi di Milano (2005)
- M.S., Università degli Studi di Milano (2001)

LINKS

- Maria Elena Monzani at KIPAC: <https://kipac.stanford.edu/people/maria-elena-monzani>
- A day in the life of a dark matter data wrangler: <https://www.symmetrymagazine.org/article/a-day-in-the-life-of-a-dark-matter-data-wrangler>

Professional

PROFESSIONAL INTERESTS

Maria Elena Monzani is a dark matter data wrangler. She manages the data processing pipeline for the Fermi-LAT and the computing and software operations for the LUX-ZEPLIN (LZ) experiment. LZ is an instrument that is superlative in many ways. It consists of 10 tons of liquified xenon gas, maintained at almost atomic purity and stored in a refrigerated titanium cylinder a mile underground in a former gold mine in Lead, South Dakota. The experiment is slated to acquire 5 PB of data over its lifetime (or 5 billion particle interactions). Due to their elusive nature, only a handful of dark matter

particles would be discovered in the process. Finding those particles is an extreme "needle in a haystack" challenge, requiring an unprecedented level of analytical prowess and statistical accuracy. In addition to providing the computing infrastructure required to analyze such a large dataset, Maria Elena collaborates with computational engineers to develop advanced Machine Learning algorithms, that could sharpen our ability to identify ultra rare anomalies in massive datasets.

WORK EXPERIENCE

- Staff Scientist - SLAC National Accelerator Laboratory (2016 - 2020)
- Engineering Physicist - SLAC National Accelerator Laboratory (2007 - 2016)
- Postdoctoral Research Scientist - Columbia University (2006 - 2007)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, American Physical Society
- Member, American Astronomical Society
- Member, Society of Catholic Scientists

Publications

PUBLICATIONS

- **HydroX, a light dark matter search with hydrogen-doped liquid xenon time projection chambers** *COMMUNICATIONS PHYSICS*
Lippincott, W. H., Nelson, H. N., Akerib, D. S., Amarasinghe, C., Ames, A., Araujo, H. M., Bargemann, J. W., Carmona-Benitez, M. C., Coronel, R., Dahl, C. E., Dey, S., Genovesi, J., Haselschwardt, et al
2025; 8 (1)
- **Neutrinoless double beta decay sensitivity of the XLZD rare event observatory** *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*
Aalbers, J., Abe, K., Adrover, M., Maouloud, S., Akerib, D. S., Al Musalhi, A. K., Alder, F., Althueser, L., Amaral, D. P., Amarasinghe, C. S., Ames, A., Andrieu, B., Angelides, et al
2025; 52 (4)
- **GRB 221009A: The BOAT Burst that Shines in Gamma Rays** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Axelsson, M., Ajello, M., Arimoto, M., Baldini, L., Ballet, J., Baring, M. G., Bartolini, C., Bastieri, D., Becerra Gonzalez, J., Bellazzini, R., Berenji, B., Bissaldi, E., Blandford, et al
2025; 277 (1)
- **Two-neutrino double electron capture of ^{124}Xe in the first LUX-ZEPLIN exposure** *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*
Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
2025; 52 (1)
- **Broadband multi-wavelength properties of M87 during the 2018 EHT campaign including a very high energy flaring episode** *ASTRONOMY & ASTROPHYSICS*
Algaba, J. C., Balokovic, M., Chandra, S., Cheong, W., Cui, Y., D'Ammando, F., Falcone, A. D., Ford, N. M., Giroletti, M., Goddi, C., Gurwell, M. A., Hada, K., Haggard, et al
2024; 692
- **Periodic Gamma-Ray Modulation of the Blazar PG 1553+113 Confirmed by Fermi-LAT and Multiwavelength Observations** *ASTROPHYSICAL JOURNAL*
Abdollahi, S., Baldini, L., Barbiellini, G., Bellazzini, R., Berenji, B., Bissaldi, E., Blandford, R. D., Bonino, R., Bruel, P., Buson, S., Cameron, R. A., Caraveo, P. A., Casaburo, et al
2024; 976 (2)
- **Constraints on Covariant Dark-Matter-Nucleon Effective Field Theory Interactions from the First Science Run of the LUX-ZEPLIN Experiment.** *Physical review letters*

- Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
2024; 133 (22): 221801
- **The data acquisition system of the LZ dark matter detector: FADR** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*
Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
2024; 1068
 - **Probing the scalar WIMP-pion coupling with the first LUX-ZEPLIN data** *COMMUNICATIONS PHYSICS*
Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
2024; 7 (1)
 - **The design, implementation, and performance of the LZ calibration systems** *JOURNAL OF INSTRUMENTATION*
Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
2024; 19 (8)
 - **New constraints on ultraheavy dark matter from the LZ experiment** *PHYSICAL REVIEW D*
Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
2024; 109 (11)
 - **First constraints on WIMP-nucleon effective field theory couplings in an extended energy region from LUX-ZEPLIN** *PHYSICAL REVIEW D*
Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
2024; 109 (9)
 - **The Third Fermi Large Area Telescope Catalog of Gamma-Ray Pulsars** *ASTROPHYSICAL JOURNAL*
Smith, D. A., Abdollahi, S., Ajello, M., Bailes, M., Baldini, L., Ballet, J., Baring, M. G., Bassa, C., Becerra Gonzalez, J., Bellazzini, R., Berretta, A., Bhattacharyya, B., Bissaldi, et al
2023; 958 (2)
 - **Search for new physics in low-energy electron recoils from the first LZ exposure** *PHYSICAL REVIEW D*
Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
2023; 108 (7)
 - **Fermi-GBM Discovery of GRB 221009A: An Extraordinarily Bright GRB from Onset to Afterglow** *ASTROPHYSICAL JOURNAL LETTERS*
Lesage, S., Veres, P., Briggs, M. S., Goldstein, A., Kocevski, D., Burns, E., Wilson-Hodge, C. A., Bhat, P. N., Huppenkothen, D., Fryer, C. L., Hamburg, R., Racusin, J., Bissaldi, et al
2023; 952 (2)
 - **First Dark Matter Search Results from the LUX-ZEPLIN (LZ) Experiment.** *Physical review letters*
Aalbers, J., Akerib, D. S., Akerlof, C. W., Al Musalhi, A. K., Alder, F., Alqahtani, A., Alsum, S. K., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, et al
2023; 131 (4): 041002
 - **Background determination for the LUX-ZEPLIN dark matter experiment** *PHYSICAL REVIEW D*
Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Alsum, S. K., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, et al
2023; 108 (1)
 - **The Fermi-LAT Lightcurve Repository** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Abdollahi, S., Ajello, M., Baldini, L., Ballet, J., Bastieri, D., Becerra Gonzalez, J., Bellazzini, R., Berretta, A., Bissaldi, E., Bonino, R., Brill, A., Bruel, P., Burns, et al
2023; 265 (2)
 - **A next-generation liquid xenon observatory for dark matter and neutrino physics** *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*

- Aalbers, J., AbdusSalam, S. S., Abe, K., Aerne, Agostini, F., Maouloud, S., Akerib, D. S., Akimov, D. Y., Akshat, J., Al Musalhi, A. K., Alder, F., Alsum, S. K., Althueser, L., et al
2023; 50 (1)
- **Low-energy Electron-track Imaging for a Liquid Argon Time-projection-chamber Telescope Concept Using Probabilistic Deep Learning** *ASTROPHYSICAL JOURNAL*
Buuck, M., Mishra, A., Charles, E., Di Lalla, N., Hitchcock, O. A., Monzani, M. E., Omodei, N., Shutt, T.
2023; 942 (2)
 - **Search for New Cosmic-Ray Acceleration Sites within the 4FGL Catalog Galactic Plane Sources** *ASTROPHYSICAL JOURNAL*
Abdollahi, S., Acero, F., Ackermann, M., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Berenji, B., Berretta, A., Bissaldi, E., Blandford, R. D., Bonino, et al
2022; 933 (2)
 - **Incremental Fermi Large Area Telescope Fourth Source Catalog** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Abdollahi, S., Acero, F., Baldini, L., Ballet, J., Bastieri, D., Bellazzini, R., Berenji, B., Berretta, A., Bissaldi, E., Blandford, R. D., Bloom, E., Bonino, R., Brill, et al
2022; 260 (2)
 - **Design and production of the high voltage electrode grids and electron extraction region for the LZ dual-phase xenon time projection chamber** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*
Linehan, R., Mannino, R. L., Fan, A., Ignarra, C. M., Luitz, S., Skarpaas, K., Shutt, T. A., Akerib, D. S., Alsum, S. K., Anderson, T. J., Araujo, H. M., Arthurs, M., Auyeung, et al
2022; 1031
 - **A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background** *SCIENCE*
Ajello, M., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Berretta, A., Bhattacharyya, B., Bissaldi, E., Blandford, R. D., Bloom, E., Bonino, et al
2022; 376 (6592): 521-+
 - **Cosmogenic production of Ar-37 in the context of the LUX-ZEPLIN experiment** *PHYSICAL REVIEW D*
Aalbers, J., Akerib, D. S., Al Musalhi, A. K., Alder, F., Alsum, S. K., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Bai, et al
2022; 105 (8)
 - **The LUX-ZEPLIN (LZ) radioactivity and cleanliness control programs (vol 80, 1044, 2020)** *EUROPEAN PHYSICAL JOURNAL C*
Akerib, D. S., Akerlof, C. W., Akimov, D., Alquahtani, A., Alsum, S. K., Anderson, T. J., Angelides, N., Araujo, H. M., Arbuckle, A., Armstrong, J. E., Arthurs, M., Auyeung, H., Aviles, et al
2022; 82 (3)
 - **CMB-S4: Forecasting Constraints on Primordial Gravitational Waves** *ASTROPHYSICAL JOURNAL*
Abazajian, K., Addison, G. E., Adshead, P., Ahmed, Z., Akerib, D., Ali, A., Allen, S. W., Alonso, D., Alvarez, M., Amin, M. A., Anderson, A., Arnold, K. S., Ashton, et al
2022; 926 (1)
 - **Kiloton-scale xenon detectors for neutrinoless double beta decay and other new physics searches** *PHYSICAL REVIEW D*
Avasthi, A., Bowyer, T. W., Bray, C., Brunner, T., Catarineu, N., Church, E., Guenette, R., Haselschwardt, S. J., Hayes, J. C., Heffner, M., Hertel, S. A., Humble, P. H., Jamil, et al
2021; 104 (11)
 - **Projected sensitivity of the LUX-ZEPLIN experiment to the two-neutrino and neutrinoless double beta decays of Xe-134** *PHYSICAL REVIEW C*
Akerib, D. S., Al Musalhi, A. K., Alsum, S. K., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Bai, X., Balajthy, J., Balashov, et al
2021; 104 (6)
 - **Projected sensitivities of the LUX-ZEPLIN experiment to new physics via low-energy electron recoils** *PHYSICAL REVIEW D*
Akerib, D. S., Al Musalhi, A. K., Alsum, S. K., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Bai, X., Balajthy, J., Balashov, et al
2021; 104 (9)

- **Gamma Rays from Fast Black-hole Winds** *ASTROPHYSICAL JOURNAL*
Ajello, M., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Berretta, A., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Bruel, P., Buson, et al
2021; 921 (2)
- **First Fermi-LAT Solar Flare Catalog (vol 252, 13, 2021)** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Ajello, M., Baldini, L., Bastieri, D., Bellazzini, R., Berretta, A., Bissaldi, E., Blandford, R. D., Bonino, R., Bruel, P., Buson, S., Cameron, R. A., Caputo, R., Cavazzuti, et al
2021; 256 (1)
- **Fermi Large Area Telescope Performance after 10 Years of Operation** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Ajello, M., Atwood, W. B., Axelsson, M., Bagagli, R., Bagni, M., Baldini, L., Bastieri, D., Bellardi, F., Bellazzini, R., Bissaldi, E., Bloom, E. D., Bonino, R., Bregeon, et al
2021; 256 (1)
- **Catalog of Long-term Transient Sources in the First 10 yr of Fermi-LAT Data** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Baldini, L., Ballet, J., Bastieri, D., Becerra Gonzalez, J., Bellazzini, R., Berretta, A., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Bottacini, E., Bruel, P., Buson, et al
2021; 256 (1)
- **Simulations of events for the LUX-ZEPLIN (LZ) dark matter experiment** *ASTROPARTICLE PHYSICS*
Akerib, D. S., Akerlof, C. W., Alqahtani, A., Alsum, S. K., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Bai, X., Balajthy, J., Balashov, S., Bang, et al
2021; 125
- **First Fermi-LAT Solar Flare Catalog** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Ajello, M., Baldini, L., Bastieri, D., Bellazzini, R., Berretta, A., Bissaldi, E., Blandford, R. D., Bonino, R., Bruel, P., Buson, S., Cameron, R. A., Caputo, R., Cavazzuti, et al
2021; 252 (2)
- **High-energy emission from a magnetar giant flare in the Sculptor galaxy** *NATURE ASTRONOMY*
Ajello, M., Atwood, W. B., Axelsson, M., Baldini, L., Barbiellini, G., Baring, M. G., Bastieri, D., Bellazzini, R., Berretta, A., Bissaldi, E., Blandford, R. D., Bonino, R., Bregeon, et al
2021
- **The LUX-ZEPLIN (LZ) radioactivity and cleanliness control programs** *EUROPEAN PHYSICAL JOURNAL C*
Akerib, D. S., Akerlof, C. W., Akimov, D., Alqahtani, A., Alsum, S. K., Anderson, T. J., Angelides, N., Araujo, H. M., Arbuckle, A., Armstrong, J. E., Arthurs, M., Auyeung, H., Aviles, et al
2020; 80 (11)
- **Projected sensitivity of the LUX-ZEPLIN experiment to the 0 nu beta beta decay of Xe-136** *PHYSICAL REVIEW C*
Akerib, D. S., Akerlof, C. W., Alqahtani, A., Alsum, S. K., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Bai, X., Balajthy, J., Balashov, S., Bang, et al
2020; 102 (1)
- **The Fourth Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope** *ASTROPHYSICAL JOURNAL*
Ajello, M., Angioni, R., Axelsson, M., Ballet, J., Barbiellini, G., Bastieri, D., Becerra Gonzalez, J., Bellazzini, R., Bissaldi, E., Bloom, E. D., Bonino, R., Bottacini, E., Bruel, et al
2020; 892 (2)
- **Projected WIMP sensitivity of the LUX-ZEPLIN dark matter experiment** *PHYSICAL REVIEW D*
Akerib, D. S., Akerlof, C. W., Alsum, S. K., Araujo, H. M., Arthurs, M., Bai, X., Bailey, A. J., Balajthy, J., Balashov, S., Bauer, D., Belle, J., Beltrame, P., Benson, et al
2020; 101 (5)
- **Measurement of the gamma ray background in the Davis cavern at the Sanford Underground Research Facility** *ASTROPARTICLE PHYSICS*
Akerib, D. S., Akerlof, C. W., Alsum, S. K., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Bai, X., Balajthy, J., Balashov, S., Baxter, A., Bernard, E. P., Biekert, et al
2020; 116
- **Fermi Large Area Telescope Fourth Source Catalog** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*

- Abdollahi, S., Acero, F., Ackermann, M., Ajello, M., Atwood, W. B., Axelsson, M., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Becerra Gonzalez, J., Bellazzini, R., Berretta, et al
2020; 247 (1)
- **The LUX-ZEPLIN (LZ) experiment** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*
Akerib, D. S., Akerlof, C. W., Akimov, D., Alqahtani, A., Alsum, S. K., Anderson, T. J., Angelides, N., Araujo, H. M., Arbuckle, A., Armstrong, J. E., Arthurs, M., Auyeung, H., Bai, et al
2020; 953
 - **Fermi and Swift Observations of GRB 190114C: Tracing the Evolution of High-energy Emission from Prompt to Afterglow** *ASTROPHYSICAL JOURNAL*
Ajello, M., Arimoto, M., Axelsson, M., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Berretta, A., Bissaldi, E., Blandford, R. D., Bonino, R., Bottacini, E., Bregeon, et al
2020; 890 (1)
 - **Optimization of Software on High Performance Computing Platforms for the LUX-ZEPLIN Dark Matter Experiment**
Ayyar, V., Bhimji, W., Monzani, M., Naylor, A., Patton, S., Tull, C. E.
edited by Doglioni, C., Kim, D., Stewart, G. A., Silvestris, L., Jackson, P., Kamleh, W.
E D P SCIENCES.2020
 - **Bright Gamma-Ray Flares Observed in GRB 131108A** *ASTROPHYSICAL JOURNAL LETTERS*
Ajello, M., Arimoto, M., Asano, K., Axelsson, M., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Berretta, A., Bissaldi, E., Blandford, R. D., Bonino, R., Bottacini, et al
2019; 886 (2)
 - **A Decade of Gamma-Ray Bursts Observed by Fermi-LAT: The Second GRB Catalog** *ASTROPHYSICAL JOURNAL*
Ajello, M., Arimoto, M., Axelsson, M., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bhat, P. N., Bissaldi, E., Blandford, R. D., Bonino, R., Bonnell, J., Bottacini, et al
2019; 878 (1)
 - **MAGIC and Fermi-LAT gamma-ray results on unassociated HAWC sources** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Ahnen, M. L., Ansoldi, S., Antonelli, L. A., Arcaro, C., Baack, D., Babic, A., Banerjee, B., Bangale, P., Barres de Almeida, U., Barrio, J. A., Becerra Gonzalez, J., Bednarek, W., Bernardini, et al
2019; 485 (1): 356–66
 - **Unresolved Gamma-Ray Sky through its Angular Power Spectrum** *PHYSICAL REVIEW LETTERS*
Ackermann, M., Ajello, M., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bonino, R., Bottacini, E., Bregeon, J., Bruel, et al
2018; 121 (24)
 - **A gamma-ray determination of the Universe's star formation history** *SCIENCE*
Abdollahi, S., Ackermann, M., Ajello, M., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Gonzalez, J., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, et al
2018; 362 (6418): 1031+
 - **VERITAS and Fermi-LAT Observations of TeV Gamma-Ray Sources Discovered by HAWC in the 2HWC Catalog** *ASTROPHYSICAL JOURNAL*
Abeysekara, A. U., Archer, A., Benbow, W., Bird, R., Brose, R., Buchovecky, M., Buckley, J. H., Bugaev, V., Chromey, A. J., Connolly, M. P., Cui, W., Daniel, M. K., Falcone, et al
2018; 866 (1)
 - **Investigating the Nature of Late-time High-energy GRB Emission through Joint Fermi/Swift Observations** *ASTROPHYSICAL JOURNAL*
Ajello, M., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bonino, R., Bottacini, E., Bregeon, J., Bruel, P., Buehler, R., Cameron, et al
2018; 863 (2)
 - **Investigating the Nature of Late-Time High-Energy GRB Emission Through Joint Fermi /Swift Observations.** *The Astrophysical journal*
Ajello, M., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bonino, R., Bottacini, E., Bregeon, J., Bruel, P., Buehler, R., Cameron, et al
2018; 863 (2)

- **The Search for Spatial Extension in High-latitude Sources Detected by the Fermi Large Area Telescope** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
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, E., Brandt, et al
2018; 237 (2)
- **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+
- **Fermi-LAT Observations of LIGO/Virgo Event GW170817** *ASTROPHYSICAL JOURNAL*
Ajello, M., Allafort, A., Axelsson, M., Baldini, L., Barbiellini, G., Baring, M. G., Bastieri, D., Bellazzini, R., Berenji, B., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, et al
2018; 861 (2)
- **Search for Gamma-Ray Emission from the Coma Cluster with Six Years of Fermi-LAT Data (vol 819, 149, 2016)** *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
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