Stanford



Maria Elena Monzani

Lead Scientist, Fundamental Physics Directorate

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

- **Search for New Physics via Low-Energy Electron Recoils with a 4.2 Tonne-Year Exposure from the LZ Experiment.** *Physical review letters*
  Akerib, D. S., Al Musalhi, A. K., Alder, F., Almquist, J., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araújo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
  2026; 137 (10): 101803

- **Searches for Light Dark Matter and Evidence of Coherent Elastic Neutrino-Nucleus Scattering of Solar Neutrinos with the LUX-ZEPLIN (LZ) Experiment.** *Physical review letters*
  Akerib, D. S., Al Musalhi, A. K., Alder, F., Almquist, B. J., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araújo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
  2026; 137 (9): 091806

- **Exploring the Nature of Galactic Unassociated Sources Detected by the Fermi-LAT** *ASTROPHYSICAL JOURNAL*
  Acero, F., Acharyya, A., Adelfio, A., Ajello, M., Aviano, E., Baldini, L., Ballet, J., Bartolini, C., Bastieri, D., Becerra Gonzalez, J., Bellazzini, R., Bhat, A., Bissaldi, et al
  2026; 1006 (2)

- **Physics-informed continuous normalizing flows to learn the electric field within a time-projection chamber** *MACHINE LEARNING-SCIENCE AND TECHNOLOGY*
  Li, I., Gaemers, P., Qin, J., Bruckner, N., Arthurs, M., Monzani, M., Tunnell, C.
  2026; 7 (3)

- **Cohort organized learning: clustering through agreement** *MACHINE LEARNING-SCIENCE AND TECHNOLOGY*
  O'Shea, F. H., Elena Monzani, M.
  2026; 7 (3)

- **Gamma-ray signature of superluminous supernovae: Fermi-LAT GeV detection of SN 2017egm and evidence of a central engine** *ASTRONOMY & ASTROPHYSICS*
  Acero, F., Acharyya, A., Adelfio, A., Ajello, M., Aviano, E., Baldini, L., Ballet, J., Bartolini, C., Bastieri, D., Becerra Gonzalez, J., Bellazzini, R., Bissaldi, E., Bonino, et al
  2026; 709

- **Two-neutrino double electron capture of ¹²⁴Xe in the first LUX-ZEPLIN exposure (vol 52, 015103, 2024)** *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
  2026; 53 (5)

- **Study of few-electron backgrounds in the LUX-ZEPLIN detector** *PHYSICAL REVIEW D*
  Akerib, D. S., Al Musalhi, A. K., Alder, F., Almquist, B. J., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araujo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
  2026; 113 (7)

- **The XLZD Design Book: towards the next-generation liquid xenon observatory for dark matter and neutrino physics** *EUROPEAN PHYSICAL JOURNAL C*
  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; 85 (10)

- **A Systematic Search for MeV-GeV Pulsar Wind Nebulae without Gamma-Ray Detected Pulsars** *ASTROPHYSICAL JOURNAL*
  Acharyya, A., Adelfio, A., Ajello, M., Baldini, L., Ballet, J., Bartolini, C., Becerra Gonzalez, J., Bellazzini, R., Bissaldi, E., Bonino, R., Bruel, P., Cameron, R. A., Caraveo, et al
  2025; 989 (1)

- **Measurements and models of enhanced recombination following inner-shell vacancies in liquid xenon** *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
  2025; 112 (1)

- **Dark Matter Search Results from 4.2 Tonne-Years of Exposure of the LUX-ZEPLIN (LZ) Experiment.** *Physical review letters*
  Aalbers, J., Akerib, D. S., Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araújo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
  2025; 135 (1): 011802

- **Fermi detection of gamma-ray emission from the hot coronae of radio-quiet active galactic nuclei** *NATURE ASTRONOMY*
  Liu, J., Wang, J., Abdollahi, S., Ajello, M., Batista, R., Baldini, L., Bartolini, C., Bastieri, D., Gonzalez, J., Bellazzini, R., Berenji, B., Bissaldi, E., Blandford, et al
  2025

- **New Constraints on Cosmic Ray-Boosted Dark Matter from 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., Araújo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
  2025; 134 (24): 241801

- **First Constraint on Atmospheric Millicharged Particles with the LUX-ZEPLIN Experiment.** *Physical review letters*
  Aalbers, J., Akerib, D. S., Musalhi, A. K., Alder, F., Amarasinghe, C. S., Ames, A., Anderson, T. J., Angelides, N., Araújo, H. M., Armstrong, J. E., Arthurs, M., Baker, A., Balashov, et al
  2025; 134 (24): 241802

- **First Constraint on Atmospheric Millicharged Particles with 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
  2025; 134 (24)

- **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 ¹²⁴Xe 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)

- **Unsupervised Learning Techniques for Identification of Anomalous LZ Waveform Data**
  Winnicki, J., Arthurs, M., Anderson, T., O'Shea, F. H., Monzani, M., Darve, E., LZ Collaboration
  edited by Szumlak, T., Rachwal, B., Dziurda, A., Schulz, M., VomBruch, D., Ellis, K., Hageboeck, S.
  E D P SCIENCES.2025

- **Anomaly Detection using Autoencoders on Fundamental LZ Signals**
  Anderson, T., Arthurs, M., Monzani, M., LZ Collaboration
  edited by Szumlak, T., Rachwal, B., Dziurda, A., Schulz, M., VomBruch, D., Ellis, K., Hageboeck, S.
  E D P SCIENCES.2025

- **The Real-Time Data Workflow of The LUX-ZEPLIN Dark Matter Experiment at NERSC**
  Arthurs, M., Anderson, T., Beattie, K., Buuck, M., Fan, A., Gaemers, P., Luitz, S., Morales, J., Patton, S., Siniscalco, J., Riffard, Q., Wang, A., Monzani, et al
  edited by Szumlak, T., Rachwal, B., Dziurda, A., Schulz, M., VomBruch, D., Ellis, K., Hageboeck, S.
  E D P SCIENCES.2025

- **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., Araújo, 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., Araújo, 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)

- **The Fourth Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope: Data Release 3** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Ajello, M., Baldini, L., Ballet, J., Bastieri, D., Gonzalez, J., Bellazzini, R., Berretta, A., Bissaldi, E., Bonino, R., Brill, A., Bruel, P., Buson, S., Caputo, et al
  2022; 263 (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

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