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ACADEMIC APPOINTMENTS

- Physical Science Research Scientist, Hansen Experimental Physics Laboratory (HEPL)

Publications

PUBLICATIONS

- **HAWC Study on the Ultra-high-energy Gamma-Ray Emissions from the Pulsar Wind Nebula G32.64+0.53** *ASTROPHYSICAL JOURNAL*
  Alfaro, R., Alvarez, C., Anita-Rangel, E., Araya, M., Arteaga-Velazquez, J. C., Rojas, D., Ayala Solares, H. A., Babu, R., Bangale, P., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, et al
  2026; 1009 (1)

- **Characterizing Candidate Blazar Counterparts of the Ultra-high-energy Event KM3-230213A** *ASTRONOMICAL JOURNAL*
  Adriani, O., Aiello, S., Albert, A., Alhebsi, A. R., Alshamsi, M., Alves Garre, S., Ambrosone, A., Ameli, F., Andre, M., Aphecetche, L., Ardid, M., Ardid, S., Aublin, et al
  2026; 172 (3)

- **Colour evolution in the radio afterglow of GRB 241025A** *ASTRONOMY & ASTROPHYSICS*
  Giarratana, S., Salafia, O. S., Nava, L., Ghirlanda, G., Giroletti, M., Antier, S., Pillas, M., Hussenot-Desenonges, T., Iskandar, A., Tanasan, M., Oganesyan, G., Di Lalla, N., Omodei, et al
  2026; 712

- **Detection of Gamma-Ray Emission with Fermi-LAT from Two Neighboring Galactic Supernova Remnants: G032.8-00.1 (Kes 78) and G032.4+00.1, and Their Adjacent PeVatron Candidate PWN G32.64+0.53** *ASTROPHYSICAL JOURNAL*
  Michailidis, M., Lemoine-Goumard, M., Di Lalla, N., Omodei, N.
  2026; 1007 (1)

- **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)

- **Kes 75 with IXPE: Detection of Nebular X-Ray Polarization and Change in Pulsar Lightcurve** *ASTROPHYSICAL JOURNAL*
  Wong, J., Dinsmore, J. T., Romani, R. W., Silvestri, S., Zhang, S., Jin, R., Bachetti, M., Ng, C. Y., Di Lalla, N., Deng, W., Xie, F., Slane, P., Bucciantini, et al
  2026; 1006 (2)

- **Shared cloud interactions unveil a candidate binary-system supernova pair with no known analogue.** *Nature communications*
  Michailidis, M., Lemoine-Goumard, M., Willcox, R., Gabici, S., Di Lalla, N., Omodei, N.
  2026; 17 (1)

- **A Multiwavelength Interpretation of HESS J1857+026 Emission Using the Fermi-LAT, VERITAS, and HAWC Observatories** *ASTROPHYSICAL JOURNAL*
  Eagle, J., Kumar, S., Archer, A., Bangale, P., Bartkoske, J. T., Benbow, W., Bond, N. R., Chen, Y., Christiansen, J. L., Chromey, A. J., Duerr, A., Errando, M., Godoy, et al
  2026; 1005 (2)

- **Super-Eddington Accretion Geometry: A Remarkable Stability of the Hidden Ultraluminous X-Ray Source Cygnus X-3** *ASTROPHYSICAL JOURNAL*
  Mikusincova, R., Veledina, A., Muleri, F., Ciancarella, R., Zdziarski, A., Green, D. A., McCollough, M., Krawczynski, H., Steiner, J. F., Dovciak, M., Ahlberg, V., Bianchi, S., Di Marco, et al
  2026; 1005 (1)

- **From rare events to a population: Discovering overlooked extragalactic magnetar giant flare candidates in archival Fermi Gamma-ray Burst Monitor data** *ASTRONOMY & ASTROPHYSICS*
  Trigg, A. C., Burns, E., Negro, M., Bala, S., Bhat, P. N., Cleveland, W. H., Frederiks, D. D., Goldstein, A., Hristov, B. A., Kocevski, D., Di Lalla, N., Lesage, S., Mailyan, et al
  2026; 710

- **IXPE View of the Crab Pulsar Following the 2025 July 17 and August 6 Glitches** *ASTROPHYSICAL JOURNAL*
  Soffitta, P., Bucciantini, N., Wong, J., Gonzalez-Caniulef, D., Bachetti, M., Ferrazzoli, R., Xie, F., Costa, E., Pilia, M., Cibrario, N., Dinsmore, J. T., Di Lalla, N., Kaaret, et al
  2026; 1001 (2)

- **Polarization of reflected X-ray emission from the Sgr A molecular complex: Multiple flares, multiple sources?** *ASTRONOMY & ASTROPHYSICS*
  Khabibullin, I., Churazov, E., Ferrazzoli, R., Kaaret, P., Kolodziejczak, J. J., Marin, F., Sunyaev, R., Svoboda, J., Vikhlinin, A., Barnouin, T., Chen, C., Costa, E., Di Gesu, et al
  2026; 707

- **Testing Magnetic Field Configurations in Spider Pulsar PSR J1723-2837 with IXPE** *ASTROPHYSICAL JOURNAL*
  Negro, M., Zhang, H., Di Lalla, N., Bogdanov, S., Wadiasingh, Z., Klingler, N., Hare, J.
  2026; 999 (2)

- **Combined dark matter search towards dwarf spheroidal galaxies with Fermi-LAT, HAWC, HESS, MAGIC, and VERITAS** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Abdollahi, S., Baldini, L., Bellazzini, R., Berenji, B., Bissaldi, E., Bonino, R., Bruel, P., Buson, S., Charles, E., Chen, A. W., Crnogorcevic, M., de Angelis, A., Di Mauro, et al
  2026

- **Implications of joint spectral analysis of gamma-ray bursts detected by Fermi Large Area Telescope and Gamma-ray Burst Monitor on phenomenological correlations** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Aldowma, T. M., Razzaque, S., Martinelli, R., Gupta, R., Longo, F., Omodei, N., Di Lalla, N., Racusin, J. L., Airasca, A. H.
  2026; 546 (4)

- **Magnetic-field Order in the Southwestern Rim of RCW 86 Constrained Using X-Ray Polarimetry** *ASTROPHYSICAL JOURNAL*
  Silvestri, S., Prokhorov, D., Vink, J., Slane, P., Yang, Y., Bucciantini, N., Ferrazzoli, R., Zhou, P., Costa, E., Omodei, N., Ng, C., Soffitta, P., Weisskopf, et al
  2026; 998 (1)

- **Fermi-LAT Captures a Late-2024 Gamma-Ray Outburst near Two Newly Identified Gamma-Ray-emitting Galactic Supernova Remnants, without Evidence of Physical Association** *ASTROPHYSICAL JOURNAL*
  Michailidis, M., Lemoine-Goumard, M., Di Lalla, N., Omodei, N., Cheung, C. C., Marti-Devesa, G., Bernard, D.
  2025; 995 (1)

- **Longtime Monitoring of TeV Radio Galaxies with HAWC** *ASTROPHYSICAL JOURNAL*
  Alfaro, R., Alvarez, C., Anita-Rangel, E., Arteaga-Velazquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Bangale, P., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, et al
  2025; 994 (2)

- **Study of the IC 443 Region with the HAWC Observatory** *ASTROPHYSICAL JOURNAL*
  Alfaro, R., Alvarez, C., Araya, M., Arteaga-Velazquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Bangale, P., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Casanova, et al
  2025; 992 (1)

- **HAWC Performance Enhanced by Machine Learning in Gamma-hadron Separation** *ASTROPHYSICAL JOURNAL*
  Alfaro, R., Alvarez, C., Andres, A., Anita-Rangel, E., Araya, M., Arteaga-Velazquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Bangale, P., Belmont-Moreno, E., Bernal, A., Capistran, et al

2025; 992 (1)

- **HAWC, VERITAS, Fermi-LAT, and XMM-Newton Follow-up Observations of the Unidentified Ultra-high-energy Gamma-Ray Source LHAASO J2108+5157** *ASTROPHYSICAL JOURNAL*
  Adams, C. B., Bangale, P., Benbow, W., Buckley, J. H., Chen, Y., Christiansen, J. L., Chromey, A. J., Escobar Godoy, M., Feldman, S., Feng, Q., Foote, J., Fortson, L., Furniss, et al
  2025; 991 (2)

- **X-Ray Polarization Detection of the Pulsar Wind Nebula in G21.5-0.9 with IXPE** *ASTROPHYSICAL JOURNAL*
  Di Lalla, N., Omodei, N., Bucciantini, N., Dinsmore, J. T., Cibrario, N., Silvestri, S., Wong, J., Slane, P., Mizuno, T., Negro, M., Romani, R. W., Ferrazzoli, R., Ng, et al
  2025; 991 (1)

- **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)

- **Puzzling Variation of Gamma Rays from the Sun over the Solar Cycle Revealed with Fermi-LAT** *ASTROPHYSICAL JOURNAL LETTERS*
  Acharyya, A., Adelfio, A., Ajello, M., Baldini, L., Bartolini, C., Bastieri, D., Becerra Gonzalez, J., Bellazzini, R., Berenji, B., Bissaldi, E., Blandford, R. D., Bonino, R., Bottacini, et al
  2025; 989 (1)

- **Timing and Spectral Evolution of the Magnetar 1E 1841-045 in Outburst** *ASTROPHYSICAL JOURNAL*
  Younes, G., Lander, S. K., Baring, M. G., Bause, M. L., Stewart, R., Arzoumanian, Z., Thi, H., Enoto, T., Gendreau, K. C., Guever, T., Harding, A. K., Ho, W. C. G., Hu, et al
  2025; 989 (1)

- **Orbital Modulation of Gamma Rays up to 100 TeV from LS 5039** *ASTROPHYSICAL JOURNAL LETTERS*
  Alfaro, R., Araya, M., Arteaga-Velazquez, J. C., Rojas, D., Ayala Solares, H. A., Babu, R., Bangale, P., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Casanova, et al
  2025; 987 (2)

- **A polarized view of the young pulsar wind nebula 3C 58 with IXPE** *ASTRONOMY & ASTROPHYSICS*
  Bucciantini, N., Wong, J., Romani, R. W., Xie, F., Ng, C., Silvestri, S., Di Lalla, N., Yang, Y., Zhang, S., Slane, P., Ye, W., Pilia, M., Omodei, et al
  2025; 699

- **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

- **A Two-week IXPE Monitoring Campaign on Mrk 421** *ASTROPHYSICAL JOURNAL*
  Maksym, W., Liodakis, I., Saade, M., Kim, D. E., Middei, R., Di Gesu, L., Kiehlmann, S., Matzeu, G., Agudo, I., Marscher, A. P., Ehlert, S. R., Jorstad, S. G., Kaaret, et al
  2025; 986 (2)

- **X-Ray Polarization of the Magnetar 1E 1841-045** *ASTROPHYSICAL JOURNAL LETTERS*
  Stewart, R., Younes, G. A., Harding, A. K., Wadiasingh, Z., Baring, M. G., Negro, M., Strohmayer, T. E., Ho, W. C. G., Ng, M., Arzoumanian, Z., Thi, H., Di Lalla, N., Enoto, et al
  2025; 985 (2)

- **High Optical-to-X-Ray Polarization Ratio Reveals Compton Scattering in BL Lacertae's Jet** *ASTROPHYSICAL JOURNAL LETTERS*
  Agudo, I., Liodakis, I., Otero-Santos, J., Middei, R., Marscher, A., Jorstad, S., Zhang, H., Li, H., Di Gesu, L., Romani, R. W., Kim, D. E., Fenu, F., Marshall, et al
  2025; 985 (1)

- **Mitigating Polarization Leakage in Gas Pixel Detectors through Hybrid Machine Learning and Analytic Event Reconstruction** *ASTROPHYSICAL JOURNAL*
  Cibrario, N., Negro, M., Bonino, R., Moriakov, N., Baldini, L., Di Lalla, N., Di Marco, A., Fabiani, S., Frassa, A., Gorgi, A., La Monaca, F., Latronico, L., Maldera, et al
  2025; 984 (2)

- **Extended TeV Halos May Commonly Exist around Middle-Aged Pulsars.** *Physical review letters*
  Albert, A., Alfaro, R., Alvarez, C., Arteaga-Velázquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistrán, T., Carramiñana, A., Casanova, et al
  2025; 134 (17): 171005

- **A measurement of the all-particle energy spectrum of cosmic rays from 1013 to 1015 eV using HAWC** *ASTROPARTICLE PHYSICS*
  Alfaro, R., Alvarez, C., Arteaga-Velazquez, J. C., Rojas, D., Solares, H., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Casanova, S., Cotzomi, J., de Leon, et al
  2025; 167

- **X-Ray Polarization of the High-synchrotron-peak BL Lacertae Object 1ES 1959+650 during Intermediate and High X-Ray Flux States** *ASTROPHYSICAL JOURNAL*
  Pacciani, L., Kim, D. E., Middei, R., Marshall, H. L., Marscher, A. P., Liodakis, I., Agudo, I., Jorstad, S. G., Poutanen, J., Errando, M., Di Gesu, L., Negro, M., Tavecchio, et al
  2025; 983 (1)

- **IXPE observation of the low-synchrotron peaked blazar S4 0954+65 during an optical-X-ray flare** *ASTRONOMY & ASTROPHYSICS*
  Kouch, P. M., Liodakis, I., Fenu, F., Zhang, H., Boula, S., Middei, R., Di Gesu, L., Paraschos, G. F., Agudo, I., Jorstad, S. G., Lindfors, E., Marscher, A. P., Krawczynski, et al
  2025; 695

- **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)

- **Absence of TeV halos around millisecond pulsars** *PHYSICAL REVIEW D*
  Abeysekara, A. U., Alfaro, R., Alvarez, C., Arteaga-Velazquez, J. C., Rojas, D., Solares, H., Babu, R., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Casanova, et al
  2025; 111 (4)

- **Study of Long-term Spectral Evolution and X-Ray and γ-Ray Correlation of Blazars Seen by HAWC** *ASTROPHYSICAL JOURNAL*
  Alfaro, R., Alvarez, C., Andres, A., Arteaga-Velazquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Carreon, et al
  2025; 980 (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

- **Evidence for a shock-compressed magnetic field in the northwestern rim of Vela Jr. from X-ray polarimetry** *ASTRONOMY & ASTROPHYSICS*
  Prokhorov, D. A., Yang, Y., Ferrazzoli, R., Vink, J., Slane, P., Costa, E., Silvestri, S., Zhou, P., Bucciantini, N., Di Marco, A., Weisskopf, M. C., Baldini, L., Doroshenko, 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)

- **Search for Joint Multimessenger Signals from Potential Galactic Cosmic-Ray Accelerators with HAWC and IceCube** *ASTROPHYSICAL JOURNAL*
  Alfaro, R., Alvarez, C., Arteaga-Velazquez, J. C., Avila Rojas, D., Solares, H., Babu, R., Belmont-Moreno, E., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Casanova, S., Cotti, U., Cotzomi, et al
  2024; 976 (1)

- **Probing the polarized emission from SMC X-1: The brightest X-ray pulsar observed by IXPE** *ASTRONOMY & ASTROPHYSICS*

Forsblom, S. V., Tsygankov, S. S., Poutanen, J., Doroshenko, V., Mushtukov, A. A., Ng, M., Ravi, S., Marshall, H. L., Di Marco, A., La Monaca, F., Malacaria, C., Mastroserio, G., Loktev, et al

2024; 691

- **Spectral Study of Very-high-energy Gamma Rays from SS 433 with HAWC** *ASTROPHYSICAL JOURNAL*

  Alfaro, R., Alvarez, C., Arteaga-Velazquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Casanova, S., Cotzomi, et al

  2024; 976 (1)

- **Studying geometry of the ultraluminous X-ray pulsar Swift J0243.6+6124 using X-ray and optical polarimetry** *ASTRONOMY & ASTROPHYSICS*

  Poutanen, J., Tsygankov, S. S., Doroshenko, V., Forsblom, S. V., Jenke, P., Kaaret, P., Berdyugin, A. V., Blinov, D., Kravtsov, V., Liodakis, I., Tzouvanou, A., Di Marco, A., Heyl, et al

  2024; 691

- **Analysis of the Emission and Morphology of the Pulsar Wind Nebula Candidate HAWCJ2031+415** *ASTROPHYSICAL JOURNAL*

  Alfaro, R., Alvarez, C., Arteaga-Velazquez, J. C., Rojas, D., Solares, H., Babu, R., Belmont-Moreno, E., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Casanova, S., Cotti, U., Cotzomi, et al

  2024; 975 (2)

- **X-Ray and Multiwavelength Polarization of Mrk 501 from 2022 to 2023** *ASTROPHYSICAL JOURNAL*

  Chen, C. J., Liodakis, I., Middei, R., Kim, D. E., Di Gesu, L., Di Marco, A., Ehlert, S. R., Errando, M., Negro, M., Jorstad, S. G., Marscher, A. P., Wu, K., Agudo, et al

  2024; 974 (1)

- **Multiwavelength Investigation of γ-Ray Source MGRO J1908+06 Emission Using Fermi-LAT, VERITAS and HAWC** *ASTROPHYSICAL JOURNAL*

  Acharyya, A., Adams, C. B., Bangale, P., Bartkoske, J. T., Benbow, W., Buckley, J. H., Christiansen, J. L., Chromey, A. J., Duerr, A., Errando, M., Falcone, A., Feng, Q., Foote, et al

  2024; 974 (1)

- **Precise Measurements of TeV Halos around Geminga and Monogem Pulsars with HAWC** *ASTROPHYSICAL JOURNAL*

  Albert, A., Alfaro, R., Alvarez, C., Arteaga-Velazquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Casanova, et al

  2024; 974 (2)

- **Ultra-high-energy gamma-ray bubble around microquasar V4641 Sgr.** *Nature*

  Alfaro, R., Alvarez, C., Arteaga-Velázquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Belmont-Moreno, E., Caballero-Mora, K. S., Capistrán, T., Carramiñana, A., Casanova, S., Cotti, U., Cotzomi, et al

  2024; 634 (8034): 557-560

- **Analysis of Crab X-Ray Polarization Using Deeper Imaging X-Ray Polarimetry Explorer Observations** *ASTROPHYSICAL JOURNAL*

  Wong, J., Mizuno, T., Bucciantini, N., Romani, R. W., Yang, Y., Liu, K., Deng, W., Goya, K., Xie, F., Pilia, M., Kaaret, P., Weisskopf, M. C., Silvestri, et al

  2024; 973 (2)

- **Observation of the Galactic Center PeVatron beyond 100 TeV with HAWC** *ASTROPHYSICAL JOURNAL LETTERS*

  Albert, A., Alfaro, R., Alvarez, C., Andres, A., Arteaga-Velazquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, et al

  2024; 973 (1)

- **X-ray polarization measurement of the gold standard of radio-quiet active galactic nuclei: NGC 1068** *ASTRONOMY & ASTROPHYSICS*

  Marin, F., Marinucci, A., Laurenti, M., Kim, D. E., Barnouin, T., Di Marco, A., Ursini, F., Bianchi, S., Ravi, S., Marshall, H. L., Matt, G., Chen, C., Gianolli, et al

  2024; 689

- **IXPE observation of PKS 2155-304 reveals the most highly polarized blazar** *ASTRONOMY & ASTROPHYSICS*

  Kouch, P. M., Liodakis, I., Middei, R., Kim, D. E., Tavecchio, F., Marscher, A. P., Marshall, H. L., Ehlert, S. R., Di Gesu, L., Jorstad, S. G., Agudo, I., Madejski, G. M., Romani, et al

  2024; 689

- **Advancements in multi-wavelength data analysis: The ThreeML framework for high-energy astronomy** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*
  Omodei, N., Di Lalla, N., ThreeML Team
  2024; 1066

- **Performance of the HAWC Observatory and TeV Gamma-Ray Measurements of the Crab Nebula with Improved Extensive Air Shower Reconstruction Algorithms** *ASTROPHYSICAL JOURNAL*
  Albert, A., Alfaro, R., Alvarez, C., Andres, A., Arteaga-Velazquez, J. C., Avila Rojas, D., Ayala Solares, H. A., Babu, R., Belmont-Moreno, E., Bernal, A., Caballero-Mora, K. S., Capistran, T., Carraminana, et al
  2024; 972 (2)

- **TeV Analysis of a Source-rich Region with the HAWC Observatory: Is HESS J1809-193 a Potential Hadronic PeVatron?** *ASTROPHYSICAL JOURNAL*
  Albert, A., Alfaro, R., Alvarez, C., Arteaga-Velazquez, J. C., Avila Rojas, D., Babu, R., Belmont-Moreno, E., Bernal, A., Breuhaus, M., Caballero-Mora, K. S., Capistran, T., Carraminana, A., Casanova, et al
  2024; 972 (1)

- **Observations of Low and Intermediate Spectral Peak Blazars with the Imaging X-Ray Polarimetry Explorer** *ASTROPHYSICAL JOURNAL*
  Marshall, H. L., Liodakis, I., Marscher, A. P., Di Lalla, N., Jorstad, S. G., Kim, D. E., Middei, R., Negro, M., Omodei, N., Peirson, A. L., Perri, M., Puccetti, S., Laurenti, et al
  2024; 972 (1)

- **Discovery of a strong rotation of the X-ray polarization angle in the galactic burster GX 13+1** *ASTRONOMY & ASTROPHYSICS*
  Bobrikova, A., Forsblom, S. V., Di Marco, A., La Monaca, F., Poutanen, J., Ng, M., Ravi, S., Loktev, V., Kajava, J. J. E., Ursini, F., Veledina, A., Rogantini, D., Salmi, et al
  2024; 688

- **Cygnus X-3 revealed as a Galactic ultraluminous X-ray source by IXPE** *NATURE ASTRONOMY*
  Veledina, A., Muleri, F., Poutanen, J., Podgorny, J., Dovciak, M., Capitanio, F., Churazov, E., De Rosa, A., Di Marco, A., Forsblom, S. V., Kaaret, P., Krawczynski, H., La Monaca, et al
  2024; 8 (8): 1031-+

- **GRB 180128A: A second magnetar giant flare candidate from the Sculptor Galaxy** *ASTRONOMY & ASTROPHYSICS*
  Trigg, A. C., Burns, E., Roberts, O. J., Negro, M., Svinkin, D. S., Baring, M. G., Wadiasingh, Z., Christensen, N. L., Andreoni, I., Briggs, M. S., Di Lalla, N., Frederiks, D. D., Lipunov, et al
  2024; 687

- **An IXPE-led X-Ray Spectropolarimetric Campaign on the Soft State of Cygnus X-1: X-Ray Polarimetric Evidence for Strong Gravitational Lensing** *ASTROPHYSICAL JOURNAL LETTERS*
  Steiner, J. F., Nathan, E., Hu, K., Krawczynski, H., Dovciak, M., Veledina, A., Muleri, F., Svoboda, J., Alabarta, K., Parra, M., Bhargava, Y., Matt, G., Poutanen, et al
  2024; 969 (2)

- **Complex rotational dynamics of the neutron star in Hercules X-1 revealed by X-ray polarization** *NATURE ASTRONOMY*
  Heyl, J., Doroshenko, V., Gonzalez-Caniulef, D., Caiazzo, I., Poutanen, J., Mushtukov, A., Tsygankov, S. S., Kirmizibayrak, D., Bachetti, M., Pavlov, G. G., Forsblom, S. V., Malacaria, C., Suleimanov, et al
  2024

- **Early-time γ-ray constraints on cosmic-ray acceleration in the core-collapse SN 2023ixf with the Fermi Large Area Telescope** *ASTRONOMY & ASTROPHYSICS*
  Marti-Devesa, G., Cheung, C. C., Di Lalla, N., Renaud, M., Principe, G., Omodei, N., Acero, F.
  2024; 686

- **Discovery of a Shock-compressed Magnetic Field in the Northwestern Rim of the Young Supernova Remnant RX J1713.7-3946 with X-Ray Polarimetry** *ASTROPHYSICAL JOURNAL LETTERS*
  Ferrazzoli, R., Prokhorov, D., Bucciantini, N., Slane, P., Vink, J., Cardillo, M., Yang, Y., Silvestri, S., Zhou, P., Costa, E., Omodei, N., Ng, C., Soffitta, et al
  2024; 967 (2)

- **Tracking the X-Ray Polarization of the Black Hole Transient Swift J1727.8-1613 during a State Transition** *ASTROPHYSICAL JOURNAL*
  Ingram, A., Bollemeijer, N., Veledina, A., Dovciak, M., Poutanen, J., Egron, E., Russell, T. D., Trushkin, S. A., Negro, M., Ratheesh, A., Capitanio, F., Connors, R., Neilsen, et al

2024; 968

- **Pulsar-wind-nebula-powered Galactic center X-ray filament G0.13-0.11** *ASTRONOMY & ASTROPHYSICS*
  Churazov, E., Khabibullin, I., Barnouin, T., Bucciantini, N., Costa, E., Di Gesu, L., Di Marco, A., Ferrazzoli, R., Forman, W., Kaaret, P., Kim, D. E., Kolodziejczak, E. J., Kraft, et al
  2024; 686

- **Discovery of a variable energy-dependent X-ray polarization in the accreting neutron star GX 5-1** *ASTRONOMY & ASTROPHYSICS*
  Fabiani, S., Capitanio, F., Iaria, R., Poutanen, J., Gnarini, A., Ursini, F., Farinelli, R., Bobrikova, A., Steiner, J. F., Svoboda, J., Anitra, A., Baglio, M. C., Carotenuto, et al
  2024; 684

- **IXPE observation confirms a high spin in the accreting black hole 4U 1957+115** *ASTRONOMY & ASTROPHYSICS*
  Marra, L., Brigitte, M., Cavero, N., Chun, S., Steiner, J. F., Dovciak, M., Nowak, M., Bianchi, S., Capitanio, F., Ingram, A., Matt, G., Muleri, F., Podgorny, et al
  2024; 684

- **X-Ray Polarization of the Black Hole X-Ray Binary 4U 1630-47 Challenges the Standard Thin Accretion Disk Scenario** *ASTROPHYSICAL JOURNAL*
  Ratheesh, A., Dovciak, M., Krawczynski, H., Podgorny, J., Marra, L., Veledina, A., Suleimanov, V. F., Cavero, N., Steiner, J. F., Svoboda, J., Marinucci, A., Bianchi, S., Negro, et al
  2024; 964 (1)

- **Detection of X-Ray Polarization from the Blazar 1ES 1959+650 with the Imaging X-Ray Polarimetry Explorer** *ASTROPHYSICAL JOURNAL*
  Errando, M., Liodakis, I., Marscher, A. P., Marshall, H. L., Middei, R., Negro, M., Peirson, A., Perri, M., Puccetti, S., Rabinowitz, P. L., Agudo, I., Jorstad, S. G., Savchenko, et al
  2024; 963 (1)

- **X-Ray Polarimetry of the Dipping Accreting Neutron Star 4U 1624-49** *ASTROPHYSICAL JOURNAL*
  Saade, M., Kaaret, P., Gnarini, A., Poutanen, J., Ursini, F., Bianchi, S., Bobrikova, A., La Monaca, F., Di Marco, A., Capitanio, F., Veledina, A., Agudo, I., Antonelli, et al
  2024; 963 (2)

- **First Detection of Polarization in X-Rays for PSR B0540-69 and Its Nebula** *ASTROPHYSICAL JOURNAL*
  Xie, F., Wong, J., La Monaca, F., Romani, R. W., Heyl, J., Kaaret, P., Di Marco, A., Bucciantini, N., Liu, K., Ng, C., Di Lalla, N., Weisskopf, M. C., Costa, et al
  2024; 962 (1)

- **Magnetic field properties inside the jet of Mrk 421** *ASTRONOMY & ASTROPHYSICS*
  Kim, D. E., Di Gesu, L., Liodakis, I., Marscher, A. P., Jorstad, S. G., Middei, R., Marshall, H. L., Pacciani, L., Agudo, I., Tavecchio, F., Cibrario, N., Tugliani, S., Bonino, et al
  2024; 681

- **First X-Ray Polarization Measurement Confirms the Low Black Hole Spin in LMC X-3** *ASTROPHYSICAL JOURNAL*
  Svoboda, J., Dovciak, M., Steiner, J. F., Muleri, F., Ingram, A., Yilmaz, A., Cavero, N., Marra, L., Poutanen, J., Veledina, A., Mojaver, M., Bianchi, S., Garcia, et al
  2024; 960 (1)

- **The Imaging X-ray Polarimetry Explorer 2.5 years later**
  Soffitta, P., Baldini, L., Baumgartner, W., Bellazzini, R., Bongiorno, S. D., Bucciantini, N., Costa, E., Dovciak, M., Ehlert, S., Kaaret, P. E., Kolodziejczak, J. J., Latronico, L., Marin, et al
  edited by DenHerder, J. W., Nikzad, S., Nakazawa, K.
  SPIE-INT SOC OPTICAL ENGINEERING.2024

- **X-Ray Polarization of the Eastern Lobe of SS 433** *ASTROPHYSICAL JOURNAL LETTERS*
  Kaaret, P., Ferrazzoli, R., Silvestri, S., Negro, M., Manfreda, A., Wu, K., Costa, E., Soffitta, P., Safi-Harb, S., Poutanen, J., Veledina, A., Di Marco, A., Slane, et al
  2024; 961 (1)

- **Highly Significant Detection of X-Ray Polarization from the Brightest Accreting Neutron Star Sco X-1** *ASTROPHYSICAL JOURNAL LETTERS*

La Monaca, F., Di Marco, A., Poutanen, J., Bachetti, M., Motta, S., Papitto, A., Pilia, M., Xie, F., Bianchi, S., Bobrikova, A., Costa, E., Deng, W., Ge, et al

2024; 960 (2)

- **X-Ray Polarized View of the Accretion Geometry in the X-Ray Binary Circinus X-1** *ASTROPHYSICAL JOURNAL LETTERS*

  Rankin, J., La Monaca, F., Di Marco, A., Poutanen, J., Bobrikova, A., Kravtsov, V., Muleri, F., Pilia, M., Veledina, A., Fender, R., Kaaret, P., Kim, D. E., Marinucci, et al

  2024; 961 (1)

- **X-Ray Polarization of the BL Lacertae Type Blazar 1ES 0229+200** *ASTROPHYSICAL JOURNAL*

  Ehlert, S. R., Liodakis, I., Middei, R., Marscher, A. P., Tavecchio, F., Agudo, I., Kouch, P. M., Lindfors, E., Nilsson, K., Myserlis, I., Gurwell, M., Rao, R., Aceituno, et al

  2023; 959 (1)

- **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)

- **The detection of polarized X-ray emission from the magnetar 1E 2259+586** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

  Heyl, J., Taverna, R., Turolla, R., Israel, G., Ng, M., Kirmizibayrak, D., Gonzalez-Caniulef, D., Caiazzo, I., Zane, S., Ehlert, S. R., Negro, M., Agudo, I., Antonelli, et al

  2023; 527 (4): 12219-12231

- **Magnetic Structures and Turbulence in SN 1006 Revealed with Imaging X-Ray Polarimetry** *ASTROPHYSICAL JOURNAL*

  Zhou, P., Prokhorov, D., Ferrazzoli, R., Yang, Y., Slane, P., Vink, J., Silvestri, S., Bucciantini, N., Reynoso, E., Moffett, D., Soffitta, P., Swartz, D., Kaaret, et al

  2023; 957 (1)

- **The First X-Ray Polarization Observation of the Black Hole X-Ray Binary 4U 1630-47 in the Steep Power-law State** *ASTROPHYSICAL JOURNAL LETTERS*

  Rodriguez Cavero, N., Marra, L., Krawczynski, H., Dovciak, M., Bianchi, S., Steiner, J. F., Svoboda, J., Capitanio, F., Matt, G., Negro, M., Ingram, A., Veledina, A., Taverna, et al

  2023; 958 (1)

- **The Polarized Cosmic Hand: IXPE Observations of PSR B1509-58/MSH 15-5²** *ASTROPHYSICAL JOURNAL*

  Romani, R. W., Wong, J., Di Lalla, N., Omodei, N., Xie, F., Ng, C., Ferrazzoli, R., Di Marco, A., Bucciantini, N., Pilia, M., Slane, P., Weisskopf, M. C., Johnston, et al

  2023; 957 (1)

- **Discovery of X-Ray Polarization from the Black Hole Transient Swift J1727.8-1613** *ASTROPHYSICAL JOURNAL LETTERS*

  Veledina, A., Muleri, F., Dovciak, M., Poutanen, J., Ratheesh, A., Capitanio, F., Matt, G., Soffitta, P., Tennant, A. F., Negro, M., Kaaret, P., Costa, E., Ingram, et al

  2023; 958 (1)

- **The first X-ray polarimetric observation of the black hole binary LMC X-1** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

  Podgorny, J., Marra, L., Muleri, F., Cavero, R. N., Ratheesh, A., Dovciak, M., Mikusincova, R., Brigitte, M., Steiner, J. F., Veledina, A., Bianchi, S., Krawczynski, H., Svoboda, et al

  2023; 526 (4): 5964-5975

- **X-ray polarimetry of the accreting pulsar GX 301-2** *ASTRONOMY & ASTROPHYSICS*

  Suleimanov, V. F., Forsblom, S. V., Tsygankov, S. S., Poutanen, J., Doroshenko, V., Doroshenko, R., Capitanio, F., Di Marco, A., Gonzalez-Caniulef, D., Heyl, J., La Monaca, F., Lutovinov, A. A., Molkov, et al

  2023; 678

- **Fermi Constraints on the Ejecta Speed and Prompt Emission Region of the Distant GRB 220101A** *ASTROPHYSICAL JOURNAL*

  Scotton, L., Piron, F., Omodei, N., Di Lalla, N., Bissaldi, E.

  2023; 956 (2)

- **The X-ray polarization of the Seyfert 1 galaxy IC 4329A** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

  Ingram, A., Ewing, M., Marinucci, A., Tagliacozzo, D., Rosario, D. J., Veledina, A., Kim, D. E., Marin, F., Bianchi, S., Poutanen, J., Matt, G., Marshall, H. L., Ursini, et al

2023; 525 (4): 5437-5449

- **Complex variations in X-ray polarization in the X-ray pulsar LS V+44 17/RX J0440.9+4431** *ASTRONOMY & ASTROPHYSICS*
  Doroshenko, V., Poutanen, J., Heyl, J., Tsygankov, S. S., Caiazzo, I., Turolla, R., Veledina, A., Weisskopf, M. C., Forsblom, S. V., Gonzalez-Caniulef, D., Loktev, V., Malacaria, C., Mushtukov, et al
  2023; 677

- **High-Density Pixel Imaging Sensor Readout Electronics for Space Applications: A Design Overview** *ELECTRONICS*
  Minuti, M., Sgro, C., Baldini, L., Bellazzini, R., Brez, A., Castellano, S., Di Lalla, N., Latronico, L., Maldera, S., Manfreda, A., Pesce-Rollins, M., Spandre, G., Barbanera, et al
  2023; 12 (17)

- **The geometry of the hot corona in MCG-05-23-16 constrained by X-ray polarimetry** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Tagliacozzo, D., Marinucci, A., Ursini, F., Matt, G., Bianchi, S., Baldini, L., Barnouin, T., Cavero Rodriguez, N., De Rosa, A., Di Gesu, L., Dovciak, M., Harper, D., Ingram, et al
  2023; 525 (3): 4735-4743

- **IXPE and XMM-Newton Observations of the Soft Gamma Repeater SGR 1806-20** *ASTROPHYSICAL JOURNAL*
  Turolla, R., Taverna, R., Israel, G., Muleri, F., Zane, S., Bachetti, M., Heyl, J., Di Marco, A., Gau, E., Krawczynski, H., Ng, M., Possenti, A., Poutanen, et al
  2023; 954 (1)

- **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)

- **IXPE and Multiwavelength Observations of Blazar PG 1553+113 Reveal an Orphan Optical Polarization Swing** *ASTROPHYSICAL JOURNAL LETTERS*
  Middei, R., Perri, M., Puccetti, S., Liodakis, I., Di Gesu, L., Marscher, A. P., Cavero, N., Tavecchio, F., Donnarumma, I., Laurenti, M., Jorstad, S. G., Agudo, I., Marshall, et al
  2023; 953 (2)

- **First Detection of X-Ray Polarization from the Accreting Neutron Star 4U 1820-303** *ASTROPHYSICAL JOURNAL LETTERS*
  Di Marco, A., La Monaca, F., Poutanen, J., Russell, T., Anitra, A., Farinelli, R., Mastroserio, G., Muleri, F., Xie, F., Bachetti, M., Burderi, L., Carotenuto, F., Del Santo, et al
  2023; 953 (2)

- **X-ray polarimetry and spectroscopy of the neutron star low-mass X-ray binary GX 9+9: An in-depth study with IXPE and NuSTAR** *ASTRONOMY & ASTROPHYSICS*
  Ursini, F., Farinelli, R., Gnarini, A., Poutanen, J., Bianchi, S., Capitanio, F., Di Marco, A., Fabiani, S., La Monaca, F., Malacaria, C., Matt, G., Mikusincova, R., Cocchi, et al
  2023; 676

- **Discovery of X-ray polarization angle rotation in the jet from blazar Mrk 421** *NATURE ASTRONOMY*
  Di Gesu, L., Marshall, H. L., Ehlert, S. R., Kim, D. E., Donnarumma, I., Tavecchio, F., Liodakis, I., Kiehlmann, S., Agudo, I., Jorstad, S. G., Muleri, F., Marscher, A. P., Puccetti, et al
  2023

- **X-ray polarimetry of X-ray pulsar X Persei: another orthogonal rotator?** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Mushtukov, A. A., Tsygankov, S. S., Poutanen, J., Doroshenko, V., Salganik, A., Costa, E., Di Marco, A., Heyl, J., La Monaca, F., Lutovinov, A. A., Mereminsky, I. A., Papitto, A., Semena, et al
  2023; 524 (2): 2004-2014

- **Hunting for gamma-ray emission from fast radio bursts ⋆** *ASTRONOMY & ASTROPHYSICS*
  Principe, G., Di Venere, L., Negro, M., Di Lalla, N., Omodei, N., Di Tria, R., Mazziotta, M. N., Longo, F.
  2023; 675

- **A polarimetrically oriented X-ray stare at the accreting pulsar EXO 2030+375** *ASTRONOMY & ASTROPHYSICS*
  Malacaria, C., Heyl, J., Doroshenko, V., Tsygankov, S. S., Poutanen, J., Forsblom, S. V., Capitanio, F., Di Marco, A., Du, Y., Ducci, L., La Monaca, F., Lutovinov, A. A., Marshall, et al

2023; 675

- **X-ray pulsar GRO J1008-57 as an orthogonal rotator** *ASTRONOMY & ASTROPHYSICS*
  Tsygankov, S. S., Doroshenko, V., Mushtukov, A. A., Poutanen, J., Di Marco, A., Heyl, J., La Monaca, F., Forsblom, S. V., Malacaria, C., Marshall, H. L., Suleimanov, V. F., Svoboda, J., Taverna, et al
  2023; 675

- **X-ray polarization evidence for a 200-year-old flare of Sgr A.** *Nature*
  Marin, F., Churazov, E., Khabibullin, I., Ferrazzoli, R., Di Gesu, L., Barnouin, T., Di Marco, A., Middei, R., Vikhlinin, A., Costa, E., Soffitta, P., Muleri, F., Sunyaev, et al
  2023

- **Discovery of strongly variable X-ray polarization in the neutron star low-mass X-ray binary transient XTE J1701-462** *ASTRONOMY & ASTROPHYSICS*
  Cocchi, M., Gnarini, A., Fabiani, S., Ursini, F., Poutanen, J., Capitanio, F., Bobrikova, A., Farinelli, R., Paizis, A., Sidoli, L., Veledina, A., Bianchi, S., Di Marco, et al
  2023; 674

- **Joint machine learning and analytic track reconstruction for X-ray polarimetry with gas pixel detectors** *ASTRONOMY & ASTROPHYSICS*
  Cibrario, N., Negro, M., Moriakov, N., Bonino, R., Baldini, L., Di Lalla, N., Latronico, L., Maldera, S., Manfreda, A., Omodei, N., Sgro, C., Tugliani, S.
  2023; 674

- **Uncovering the geometry of the hot X-ray corona in the Seyfert galaxy NGC 4151 with IXPE** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Gianolli, V. E., Kim, D. E., Bianchi, S., Agis-Gonzalez, B., Madejski, G., Marin, F., Marinucci, A., Matt, G., Middei, R., Petrucci, P. O., Soffitta, P., Tagliacozzo, D., Tombesi, et al
  2023; 523 (3): 4468-4476

- **Equalizing the Pixel Response of the Imaging Photoelectric Polarimeter Onboard the IXPE Mission** *ASTRONOMICAL JOURNAL*
  Rankin, J., Muleri, F., Di Marco, A., Fabiani, S., La Monaca, F., Soffitta, P., Bachetti, M., Baldini, L., Costa, E., Di Lalla, N., Manfreda, A., O'Dell, S. L., Perri, et al
  2023; 165 (5)

- **X-Ray Polarization of BL Lacertae in Outburst** *ASTROPHYSICAL JOURNAL LETTERS*
  Peirson, A. L., Negro, M., Liodakis, I., Middei, R., Kim, D. E., Marscher, A. P., Marshall, H. L., Pacciani, L., Romani, R. W., Wu, K., Di Marco, A., Di Lalla, N., Omodei, et al
  2023; 948 (2)

- **Simultaneous space and phase resolved X-ray polarimetry of the Crab pulsar and nebula** *NATURE ASTRONOMY*
  Bucciantini, N., Ferrazzoli, R., Bachetti, M., Rankin, J., Di Lalla, N., Sgro, C., Omodei, N., Kitaguchi, T., Mizuno, T., Gunji, S., Watanabe, E., Baldini, L., Slane, et al
  2023

- **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)

- **IXPE Observations of the Quintessential Wind-accreting X-Ray Pulsar Vela X-1** *ASTROPHYSICAL JOURNAL LETTERS*
  Forsblom, S., Poutanen, J. S., Tsygankov, S., Bachetti, M., Marco, A., Doroshenko, V., Heyl, J., Monaca, F., Malacaria, C. L., Marshall, H., Muleri, F. A., Mushtukov, A., Pilia, et al
  2023; 947 (2)

- **Polarisation leakage due to errors in track reconstruction in gas pixel detectors** *ASTRONOMY & ASTROPHYSICS*
  Bucciantini, N., Di Lalla, N., Romani, R. R., Silvestri, S., Negro, M., Baldini, L., Tennant, A. F., Manfreda, A.
  2023; 672

- **X-Ray Polarimetry Reveals the Magnetic-field Topology on Sub-parsec Scales in Tycho's Supernova Remnant** *ASTROPHYSICAL JOURNAL*
  Ferrazzoli, R., Slane, P., Prokhorov, D., Zhou, P., Vink, J., Bucciantini, N., Costa, E., Di Lalla, N., Di Marco, A., Soffitta, P., Weisskopf, M. C., Asakura, K., Baldini, et al
  2023; 945 (1)

- **The IXPE View of GRB 221009A** *ASTROPHYSICAL JOURNAL LETTERS*
  Negro, M., Di Lalla, N., Omodei, N., Veres, P., Silvestri, S., Manfreda, A., Burns, E., Baldini, L., Costa, E., Ehlert, S. R., Kennea, J. A., Liodakis, I., Marshall, et al
  2023; 946 (1)

- **A Strong X-Ray Polarization Signal from the Magnetar 1RXS J170849.0-400910** *ASTROPHYSICAL JOURNAL LETTERS*
  Zane, S., Taverna, R., Gonzalez-Caniulef, D., Muleri, F., Turolla, R., Heyl, J., Uchiyama, K., Ng, M., Tamagawa, T., Caiazzo, I., Di Lalla, N., Marshall, H. L., Bachetti, et al
  2023; 944 (2)

- **Mapping the circumnuclear regions of the Circinus galaxy with the Imaging X-ray Polarimetry Explorer** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Ursini, F., Marinucci, A., Matt, G., Bianchi, S., Marin, F., Marshall, H. L., Middei, R., Poutanen, J., Rogantini, D., De Rosa, A., Di Gesu, L., Garcia, J. A., Ingram, et al
  2023; 519 (1): 50-58

- **Polarization Properties of the Weakly Magnetized Neutron Star X-Ray Binary GS 1826-238 in the High Soft State** *ASTROPHYSICAL JOURNAL*
  Capitanio, F., Fabiani, S., Gnarini, A., Ursini, F., Ferrigno, C., Matt, G., Poutanen, J., Cocchi, M., Mikusincova, R., Farinelli, R., Bianchi, S., Kajava, J. J. E., Muleri, et al
  2023; 943 (2)

- **X-ray polarimetry as a tool to measure the black hole spin in microquasars: simulations of IXPE capabilities** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Mikusincova, R., Dovciak, M., Bursa, M., Lalla, N., Matt, G., Svoboda, J., Taverna, R., Zhang, W.
  2023; 519 (4): 6138-6148

- **Accretion geometry of the neutron star low mass X-ray binary Cyg X-2 from X-ray polarization measurements** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Farinelli, R., Fabiani, S., Poutanen, J., Ursini, F., Ferrigno, C., Bianchi, S., Cocchi, M., Capitanio, F., De Rosa, A., Gnarini, A., Kislat, F., Matt, G., Mikusincova, et al
  2023; 519 (3): 3681-3690

- **X-Ray Polarization Observations of BL Lacertae** *ASTROPHYSICAL JOURNAL LETTERS*
  Middei, R., Liodakis, I., Perri, M., Puccetti, S., Cavazzuti, E., Di Gesu, L., Ehlert, S. R., Madejski, G., Marscher, A. P., Marshall, H. L., Muleri, F., Negro, M., Jorstad, et al
  2023; 942 (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 X-Ray Polarimetry View of the Accreting Pulsar Cen X-3** *ASTROPHYSICAL JOURNAL LETTERS*
  Tsygankov, S. S., Doroshenko, V., Poutanen, J., Heyl, J., Mushtukov, A. A., Caiazzo, I., Di Marco, A., Forsblom, S. V., Gonzalez-Caniulef, D., Klawin, M., La Monaca, F., Malacaria, C., Marshall, et al
  2022; 941 (1)

- **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)

- **Vela pulsar wind nebula X-rays are polarized to near the synchrotron limit.** *Nature*
  Xie, F., Di Marco, A., La Monaca, F., Liu, K., Muleri, F., Bucciantini, N., Romani, R. W., Costa, E., Rankin, J., Soffitta, P., Bachetti, M., Di Lalla, N., Fabiani, et al
  2022; 612 (7941): 658-660

- **Polarized x-rays from a magnetar.** *Science (New York, N.Y.)*
  Taverna, R., Turolla, R., Muleri, F., Heyl, J., Zane, S., Baldini, L., Gonzalez-Caniulef, D., Bachetti, M., Rankin, J., Caiazzo, I., Di Lalla, N., Doroshenko, V., Errando, et al

2022; 378 (6620): 646-650

- **Polarized x-rays constrain the disk-jet geometry in the black hole x-ray binary Cygnus X-1.** *Science (New York, N.Y.)*
  Krawczynski, H., Muleri, F., Dovciak, M., Veledina, A., Rodriguez Cavero, N., Svoboda, J., Ingram, A., Matt, G., Garcia, J. A., Loktev, V., Negro, M., Poutanen, J., Kitaguchi, et al
  2022; 378 (6620): 650-654

- **Polarized blazar X-rays imply particle acceleration in shocks.** *Nature*
  Liodakis, I., Marscher, A. P., Agudo, I., Berdyugin, A. V., Bernardos, M. I., Bonnoli, G., Borman, G. A., Casadio, C., Casanova, V. C., Cavazzuti, E., Rodriguez Cavero, N., Di Gesu, L., Di Lalla, et al
  2022; 611 (7937): 677-681

- **Observations of 4U 1626-67 with the Imaging X-Ray Polarimetry Explorer** *ASTROPHYSICAL JOURNAL*
  Marshall, H. L., Ng, M., Rogantini, D., Heyl, J., Tsygankov, S. S., Poutanen, J., Costa, E., Zane, S., Malacaria, C., Agudo, I., Antonelli, L. A., Bachetti, M., Baldini, et al
  2022; 940 (1)

- **Determination of X-ray pulsar geometry with IXPE polarimetry** *NATURE ASTRONOMY*
  Doroshenko, V., Poutanen, J., Tsygankov, S. S., Suleimanov, V. F., Bachetti, M., Caiazzo, I., Costa, E., Di Marco, A., Heyl, J., La Monaca, F., Muleri, F., Mushtukov, A. A., Pavlov, et al
  2022

- **Polarization constraints on the X-ray corona in Seyfert Galaxies: MCG-05-23-16** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Marinucci, A., Muleri, F., Dovciak, M., Bianchi, S., Marin, F., Matt, G., Ursini, F., Middei, R., Marshall, H. L., Baldini, L., Barnouin, T., Rodriguez, N., De Rosa, et al
  2022; 516 (4): 5907-5913

- **X-Ray Polarization Detection of Cassiopeia A with IXPE** *ASTROPHYSICAL JOURNAL*
  Vink, J., Prokhorov, D., Ferrazzoli, R., Slane, P., Zhou, P., Asakura, K., Baldini, L., Bucciantini, N., Costa, E., Di Marco, A., Heyl, J., Marin, F., Mizuno, et al
  2022; 938 (1)

- **The X-Ray Polarization View of Mrk 421 in an Average Flux State as Observed by the Imaging X-Ray Polarimetry Explorer** *ASTROPHYSICAL JOURNAL LETTERS*
  Di Gesu, L., Donnarumma, I., Tavecchio, F., Agudo, I., Barnounin, T., Cibrario, N., Di Lalla, N., Di Marco, A., Escudero, J., Errando, M., Jorstad, S. G., Kim, D. E., Kouch, et al
  2022; 938 (1)

- **Calibration of the IXPE Focal Plane X-Ray Polarimeters to Polarized Radiation** *ASTRONOMICAL JOURNAL*
  Di Marco, A., Fabiani, S., La Monaca, F., Muleri, F., Rankin, J., Soffitta, P., Xie, F., Amici, F., Attina, P., Bachetti, M., Baldini, L., Barbanera, M., Baumgartner, et al
  2022; 164 (3)

- **Limits on X-Ray Polarization at the Core of Centaurus A as Observed with the Imaging X-Ray Polarimetry Explorer** *ASTROPHYSICAL JOURNAL*
  Ehlert, S. R., Ferrazzoli, R., Marinucci, A., Marshall, H. L., Middei, R., Pacciani, L., Perri, M., Petrucci, P., Puccetti, S., Barnouin, T., Bianchi, S., Liodakis, I., Madejski, et al
  2022; 935 (2)

- **ixpeobssim: A simulation and analysis framework for the imaging X-ray polarimetry explorer** *SOFTWAREX*
  Baldini, L., Bucciantini, N., Di Lalla, N., Ehlert, S., Manfreda, A., Negro, M., Omodei, N., Pesce-Rollins, M., Sgro, C., Silvestri, S.
  2022; 19

- **BASS. XXV. DR2 Broad-line-based Black Hole Mass Estimates and Biases from Obscuration** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Mejia-Restrepo, J. E., Trakhtenbrot, B., Koss, M. J., Oh, K., den Brok, J., Stern, D., Powell, M. C., Ricci, F., Caglar, T., Ricci, C., Bauer, F. E., Treister, E., Harrison, et al
  2022; 261 (1)

- **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)

- **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-+

- **The Coupling of an EUV Coronal Wave and Ion Acceleration in a Fermi-LAT Behind-the-Limb Solar Flare** *ASTROPHYSICAL JOURNAL*

  Pesce-Rollins, M., Omodei, N., Krucker, S., Di Lalla, N., Wang, W., Battaglia, A. F., Warmuth, A., Veronig, A. M., Baldini, L.

  2022; 929 (2)

- **A Weighted Analysis to Improve the X-Ray Polarization Sensitivity of the Imaging X-ray Polarimetry Explorer** *ASTRONOMICAL JOURNAL*

  Di Marco, A., Costa, E., Muleri, F., Soffitta, P., Fabiani, S., La Monaca, F., Rankin, J., Xie, F., Bachetti, M., Baldini, L., Baumgartner, W., Bellazzini, R., Brez, et al

  2022; 163 (4)

- **Imaging X-ray Polarimetry Explorer: prelaunch** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*

  Weisskopf, M. C., Soffitta, P., Baldini, L., Ramsey, B. D., O'Dell, S. L., Romani, R. W., Matt, G., Deininger, W. D., Baumgartner, W. H., Bellazzini, R., Costa, E., Kolodziejczak, J. J., Latronico, et al

  2022; 8 (2)

- **An Algorithm to Calibrate and Correct the Response to Unpolarized Radiation of the X-Ray Polarimeter Onboard IXPE** *ASTRONOMICAL JOURNAL*

  Rankin, J., Muleri, F., Tennant, A. F., Bachetti, M., Costa, E., Di Marco, A., Fabiani, S., La Monaca, F., Soffitta, P., Tobia, A., Trois, A., Xie, F., Baldini, et al

  2022; 163 (2)

- **Hunting the gamma-ray emission from Fast Radio Burst with Fermi-LAT**

  Principe, G., Omodei, N., Di Lalla, N., Di Venere, L., Longo, F., Fermi Large Area Telescope

  edited by Keilhauer, B.

  PROCEEDINGS OF SCIENCE.2022

- **The Instrument of the Imaging X-Ray Polarimetry Explorer** *ASTRONOMICAL JOURNAL*

  Soffitta, P., Baldini, L., Bellazzini, R., Costa, E., Latronico, L., Muleri, F., Del Monte, E., Fabiani, S., Minuti, M., Pinchera, M., Sgro, C., Spandre, G., Trois, et al

  2021; 162 (5)

- **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)

- **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)

- **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)

- **Design, construction, and test of the Gas Pixel Detectors for the IXPE mission** *ASTROPARTICLE PHYSICS*
  Baldini, L., Barbanera, M., Bellazzini, R., Bonino, R., Borotto, F., Brez, A., Caporale, C., Cardelli, C., Castellano, S., Ceccanti, M., Citraro, S., Di Lalla, N., Latronico, et al
  2021; 133

- **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 Imaging X-ray Polarimetry Explorer (IXPE): technical overview III**
  Soffitta, P., Attina, P., Baldini, L., Barbanera, M., Baumgartner, W. H., Bellazzini, R., Bladt, J., Bongiorno, S. D., Brez, A., Castellano, S., Carpentiero, R., Castronuovo, M., Cavalli, et al
  edited by DenHerder, J. W., Nikzad, S., Nakazawa, K.
  SPIE-INT SOC OPTICAL ENGINEERING.2021

- **The Imaging X-Ray Polarimetry Explorer (IXPE): Technical Overview IV**
  Ramsey, B. D., Attina, P., Baldini, L., Barbanera, M., Baumgartner, W. H., Bellazzini, R., Bladt, J., Bongiorno, S. D., Brez, A., Castellano, S., Carpentiero, R., Castronuovo, M., Cavalli, et al
  edited by Siegmund, O. H.
  SPIE-INT SOC OPTICAL ENGINEERING.2021

- **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)

- **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)

- **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)

- **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 Search for Cosmic-Ray Proton Anisotropy with the Fermi Large Area Telescope** *ASTROPHYSICAL JOURNAL*
  Ajello, M., Baldini, L., Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bonino, R., Bottacini, E., Brandt, T. J., Bruel, P., Buson, et al
  2019; 883 (1)

- **An observation-simulation and analysis framework for the Imaging X-ray Polarimetry Explorer (IXPE)** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*
  Pesce-Rollins, M., Di Lalla, N., Omodei, N., Baldini, L.
  2019; 936: 224–26

- **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

- **The Imaging X-ray Polarimetry Explorer (IXPE): technical overview II**

  O'Dell, S. L., Attina, P., Baldini, L., Barbanera, M., Baumgartner, W. H., Bellazzini, R., Bladt, J., Bongiorno, S. D., Brez, A., Cavazzuti, E., Citraro, S., Costa, E., Deininger, et al

  edited by Siegmund, O. H.

  SPIE-INT SOC OPTICAL ENGINEERING.2019

- **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)

- **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., Ansseau, 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 Local Primordial Black Holes with the Fermi Large Area Telescope** *ASTROPHYSICAL JOURNAL*

  Ackermann, M., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Berenji, B., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Bottacini, et al

  2018; 857 (1)

- **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

- **The Imaging X-ray Polarimetry Explorer (IXPE): technical overview**
  O'Dell, S. L., Baldini, L., Bellazzini, R., Costa, E., Elsner, R. F., Kaspi, V. M., Kolodziejczak, J. J., Latronico, L., Marshall, H. L., Matt, G., Muleri, F., Ramsey, B. D., Romani, et al
  edited by DenHerder, J. W., Nikzad, S., Nakazawa, K.
  SPIE-INT SOC OPTICAL ENGINEERING.2018

- **Dependence on temperature of the response of a gas pixel detector to polarized radiation**
  Fabiani, S., di Lalla, N., Marrocchesi, A., Pucci, F., Baldini, L., Latronico, L., del Monte, E., Muleri, F., Pinchera, M., Rubini, A., Sgro, C., Soffitta, P., Tobia, et al
  edited by DenHerder, J. W., Nikzad, S., Nakazawa, K.
  SPIE-INT SOC OPTICAL ENGINEERING.2018

- **Multi-messenger Observations of a Binary Neutron Star Merger** *ASTROPHYSICAL JOURNAL LETTERS*
  Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., Adams, T., Addesso, P., Adhikari, R. X., Adya, V. B., Affeldt, C., Afrough, M., Agarwal, et al
  2017; 848 (2)

- **3FHL: The Third Catalog of Hard Fermi-LAT Sources** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Ajello, M., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, R., Bregeon, J., Britto, et al
  2017; 232 (2)

- **Fermi Observations of the LIGO Event GW170104** *ASTROPHYSICAL JOURNAL LETTERS*
  Goldstein, A., Veres, P., Burns, E., Blackburn, L., Briggs, M. S., Christensen, N., Cleveland, W. H., Connaughton, V., Dal Canton, T., Hamburg, R., Hui, C. M., Jenke, P. A., Kocevski, et al
  2017; 846 (1)

- **The Second Catalog of Flaring Gamma-Ray Sources from the Fermi All-sky Variability Analysis** *ASTROPHYSICAL JOURNAL*
  Abdollahi, S., Ackermann, M., Ajello, M., Albert, A., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Gonzalez, J., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, et al
  2017; 846 (1)

- **Theoretical Interpretation of Pass 8 Fermi-LAT e⁺ + e⁻ Data** *ASTROPHYSICAL JOURNAL*
  Di Mauro, M., Manconi, S., Vittino, A., Donato, F., Fornengo, N., Baldini, L., Bonino, R., Di Lalla, N., Latronico, L., Maldera, S., Manfreda, A., Negro, M., Pesce-Rollins, et al
  2017; 845 (2)

- **Search for Extended Sources in the Galactic Plane Using Six Years of Fermi-Large Area Telescope Pass 8 Data above 10GeV** *ASTROPHYSICAL JOURNAL*
  Ackermann, M., Ajello, M., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Bloom, E. D., Bonino, R., Bottacini, E., Brandt, T. J., Bregeon, et al
  2017; 843 (2)

- **The Fermi Galactic Center GeV Excess and Implications for Dark Matter** *ASTROPHYSICAL JOURNAL*
  Ackermann, M., Ajello, M., Albert, A., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, et al
  2017; 840 (1)

- **XIMPOL: A new X-ray polarimetry observation-simulation and analysis framework** *NUOVO CIMENTO C-COLLOQUIA AND COMMUNICATIONS IN PHYSICS*
  Di Lalla, N., Baldini, L., Omodei, N., Pesce-Rollins, M.
  2017; 40 (3)

- **Cosmic-ray electron-positron spectrum from 7 GeV to 2 TeV with the Fermi Large Area Telescope** *PHYSICAL REVIEW D*
  Abdollahi, S., Ackermann, M., Ajello, M., Atwood, W. B., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bloom, E. D., Bonino, R., Brandt, T. J., Bregeon, J., Bruel, et al

2017; 95 (8)

- **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

- **Search for Cosmic-Ray Electron and Positron Anisotropies with Seven Years of Fermi Large Area Telescope Data** *PHYSICAL REVIEW LETTERS*
  Abdollahi, S., Ackermann, M., Ajello, M., Albert, A., Atwood, W. B., Baldini, L., Barbiellini, G., Bellazzini, R., Bissaldi, E., Bloom, E. D., Bonino, R., Bottacini, E., Brandt, et al
  2017; 118 (9)

- **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)

- **Observations of M31 and M33 with the Fermi Large Area Telescope: A Galactic Center Excess in Andromeda?** *ASTROPHYSICAL JOURNAL*
  Ackermann, M., Ajello, M., Albert, A., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Bloom, E. D., Bonino, R., Bottacini, E., Brandt, et al
  2017; 836 (2)

- **Fermi-LAT Observations of High-energy Behind-the-limb Solar Flares** *ASTROPHYSICAL JOURNAL*
  Ackermann, M., Allafort, A., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Bonino, R., Bottacini, E., Bregeon, J., Bruel, P., Buehler, R., Cameron, et al
  2017; 835 (2)

- **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)

- **XIMPOL: a new x-ray polarimetry observation-simulation and analysis framework.**
  Omodei, N., Baldini, L., Pesce-Rollins, M., di Lalla, N.
  edited by Siegmund, O. H.
  SPIE-INT SOC OPTICAL ENGINEERING.2017

- **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)

- **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)

- **DEEP MORPHOLOGICAL AND SPECTRAL STUDY OF THE SNR RCW 86 WITH FERMI-LAT** *ASTROPHYSICAL JOURNAL*
  Ajello, M., Baldini, L., Barbiellini, G., Bastieri, D., Bellazzini, R., Bissaldi, E., Bloom, E. D., Bonino, R., Bottacini, E., Brandt, T. J., Bregeon, J., Bruel, P., Buehler, et al
  2016; 819 (2)

- **XIPE the X-ray Imaging Polarimetry Explorer**
  Soffitta, P., Bellazzini, R., Bozzo, E., Burwitz, Castro-Tirado, A. J., Costa, E., Courvoisier, T., Feng, H., Gburek, S., Goosmann, R., Karas, Matt, G., Muleri, F., Nandra, et al
  edited by DenHerder, J. W., Takahashi, T., Bautz, M.
  SPIE-INT SOC OPTICAL ENGINEERING.2016

- **Performance of the Gas Pixel Detector: an X-ray imaging polarimeter for upcoming missions of astrophysics**
  Muleri, F., Soffitta, P., Baldini, L., Bellazzini, R., Brez, A., Costa, E., Di Lalla, N., Del Monte, E., Evangelista, Y., Latronico, L., Manfreda, A., Minuti, M., Pesce-Rollins, et al
  edited by DenHerder, J. W., Takahashi, T., Bautz, M.
  SPIE-INT SOC OPTICAL ENGINEERING.2016