Stanford



Igor Moskalenko

Sr Res Scientist-Physical, Hansen Experimental Physics Laboratory (HEPL)

Bio

ACADEMIC APPOINTMENTS

- Sr Res Scientist-Physical, Hansen Experimental Physics Laboratory (HEPL)

HONORS AND AWARDS

- Giuseppe and Vanna Cocconi Prize - The Fermi-LAT collaboration, European Physical Society (2026)
- Bruno Rossi Prize - Bill Atwood, Peter Michelson, and the Fermi Gamma Ray Space Telescope LAT team, High Energy Astrophysics Division, American Astronomical Society (2011)
- Fellow, American Physical Society (2010)
- Group Achievement Award to Fermi Science Team, NASA (2010)
- Group Achievement Award to the Large Area Telescope Team, NASA (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Guest Editor, Advances in Space Research (ASR), Special Issue "Astrophysics of Cosmic Rays in the Multi-messenger Era" ASR 77, Issue 8 (2026 - 2026)
- Main Scientific Organizer, 46th COSPAR Scientific Assembly, Comm. E1.1 “Origin of Cosmic Rays”, Florence, Italy (2026 - 2026)
- Deputy Organizer, 45th COSPAR Sci. Assembly, Comm. E1.1 “Origin of Cosmic Rays”, Busan, S.Korea (2024 - 2024)
- Guest Editor, Advances in Space Research (ASR), Special Issue "Progress in Astrophysics of Cosmic Rays" ASR 74, Issue 9 (2024 - 2024)
- Guest Editor, Advances in Space Research (ASR), Special Issue “Astrophysics of Cosmic Rays” ASR 70, issue 9 (2022 - 2022)
- Main Scientific Organizer, 44th COSPAR Sci. Assembly, Comm. E1.3 “Origins of Cosmic Rays”, Athens, Greece (2022 - 2022)
- Associate Editor, Advances in Space Research - Editorial Board (2020 - present)
- Member, MIT Laboratory for Nuclear Science Dean’s Advisory Committee (2020 - present)
- Main Scientific Organizer, 43rd COSPAR Sci. Assembly, Comm. E1.16 “The Origin of Cosmic Rays”, Sydney, Australia (2020 - 2020)
- Editor, Proc. of 26th Extended European Cosmic Ray Symposium, J. Phys.: Conf. Ser. 1181 (2019 - 2019)
- Guest Editor, Advances in Space Research (ASR), Special Issue “Advances in cosmic-ray astrophysics and related areas,” ASR 64, issue 12 (2019 - 2019)
- Guest Editor, Advances in Space Research (ASR), Special Issue “Origins of Cosmic Rays,” ASR 62, issue 10 (2018 - 2018)
- Main Scientific Organizer, 42nd COSPAR Sci. Assembly, Comm. E1.5 “Origins of Cosmic Rays”, Pasadena (2018 - 2018)
- Member, Yodh Prize Committee (2017 - present)
- Guest Editor, Advances in Space Research (ASR), Special Issue “Cosmic ray origins: The Viktor Hess centennial anniversary,” ASR 53, issue 10 (2014 - 2014)
- Chair/Member, NASA’s Exec. Committee on Particle Astrophysics (PhysPAG) (2013 - 2018)

- Deputy Organizer, 39th COSPAR Sci. Assembly, Comm. E1.15 “Cosmic ray origins: Viktor Hess Centennial Anniversary”, Mysore, India (2012 - 2012)
- Fellow, American Physical Society (2010 - present)

PROFESSIONAL EDUCATION

- D.Sci. (Habilitation), Space Research Institute, Russian Academy of Sciences , Astrophysics & Stellar Astronomy (2017)
- Ph.D., M.V. Lomonosov Moscow State University , Theoretical Nuclear & Particle Physics (1990)
- M.Sc., M.V. Lomonosov Moscow State University , Theoretical Nuclear & Particle Physics (1985)

LINKS

- ScienceWatch on GALPROP: http://archive.sciencewatch.com/dr/erf/2009/pdf/09octerfStronET.pdf

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Particle/high-energy astrophysics, atomic and nuclear physics. Currently working on models of cosmic-ray production and propagation, particle interactions with fields and matter, search for signatures of dark matter and new physics, analysis of diffuse X- and gamma-ray emission, gamma-ray emission from compact objects, SNRs, and solar system bodies. The originator of GALPROP (with A.W.Strong from MPE), a state-of-the-art numerical model and a computer code (C++) for cosmic ray propagation in the Galaxy and production of associated photon emissions

PROJECTS

- GALPROP, a state-of-the-art numerical model and a computer code (C++) for cosmic ray propagation in the Galaxy and production of associated diffuse photon emissions. - Stanford University (12/1/1996 - present)
- Fermi Gamma Ray Space Telescope - Large Area Telescope (Fermi-LAT) - Stanford University (6/1/2005 - present)
- The Compton Spectrometer and Imager (COSI)

Publications

PUBLICATIONS

- **Geometry, Not Calorimetry, Drives the Radio-Infrared-γ Ray Correlation** *ASTROPHYSICAL JOURNAL*
  Porter, T. A., Moskalenko, I. V., Johannesson, G.
  2026; 1007 (1)
- **Simulating the Diffuse Neutrino Emission from the Milky Way with GALPROP** *ASTROPHYSICAL JOURNAL*
  Marinos, P. D., Porter, T. A., Rowell, G. P., Moskalenko, I. V., Johannesson, G.
  2026; 1004 (1)
- **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
- **Preface: Astrophysics of cosmic rays in the multi-messenger era** *ADVANCES IN SPACE RESEARCH*
  Seo, E., Moskalenko, I. V.
  2026; 77 (8): 8267-8268
- **Voyager 1 Data Reveals Signatures of the Local Gas and Cosmic-Ray Source Distributions** *ASTROPHYSICAL JOURNAL*
  Porter, T. A., Moskalenko, I. V., Cummings, A. C., Johannesson, G.
  2026; 1001 (1)
- **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

- **Voyager 1 Observations of Galactic Cosmic-Ray Isotopes in the Very Local Interstellar Medium: Evidence for Primary ²H and B** *ASTROPHYSICAL JOURNAL*

  Cummings, A. C., Moskalenko, I. V., Heikkila, B. C., Johannesson, G., Porter, T. A.

  2025; 993 (1)

- **Galactic Cosmic Rays in the Local Interstellar Medium: Voyager 1 Observations and Model Results(vol 831, 18 , 2016)** *ASTROPHYSICAL JOURNAL*

  Cummings, A. C., Stone, E. C., Heikkila, B. C., Lal, N., Webber, W. R., Johannesson, G., Moskalenko, I. V., Orlando, E., Porter, T. A.

  2025; 992 (2)

- **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)

- **Cosmic ray and interstellar gas properties in the solar neighborhood revealed by diffuse gamma-rays** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*

  Mizuno, T., Hayashi, K., Ochi, H., Moskalenko, I., Orlando, E., Strong, A. W.

  2025

- **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

- **On the Temporal Variability of the Galactic Multi-TeV Interstellar Emissions** *ASTROPHYSICAL JOURNAL*

  Marinos, P. D., Porter, T. A., Rowell, G. P., Johannesson, G., Moskalenko, I. V.

  2025; 981 (1)

- **Spectra of He Isotopes and the ³He/⁴He Ratio** *ASTROPHYSICAL JOURNAL*

  Boschini, M. J., Della Torre, S., Gervasi, M., Grandi, D., Johannesson, G., La Vacca, G., Masi, N., Moskalenko, I. V., Pensotti, S., Porter, T. A., Quadrani, L., Rancoita, P. G., Rozza, et al

  2025; 981 (1)

- **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)

- **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)

- **Preface: Progress in cosmic-ray astrophysics and related areas** *ADVANCES IN SPACE RESEARCH*

  Moskalenko, I., Seo, E.

  2024; 74 (9): 4237

- **Very local impact on the spectrum of cosmic-ray nuclei below 100 TeV** *ADVANCES IN SPACE RESEARCH*

  Malkov, M. A., Moskalenko, I. V., Diamond, P. H., Cao, M.

  2024; 74 (9): 4264-4275

- **Current status and desired precision of the isotopic production cross sections relevant to astrophysics of cosmic rays. II. Fluorine to silicon and updated results for Li, Be, and B** *PHYSICAL REVIEW C*
  Genolini, Y., Maurin, D., V. Moskalenko, I., Unger, M.
  2024; 109 (6)
- **Interpretations of the cosmic ray secondary-to-primary ratios measured by DAMPE** *FRONTIERS OF PHYSICS*
  Ma, P., Xu, Z., Yuan, Q., Bi, X., Fan, Y., Moskalenko, I. V. V., Yue, C.
  2023; 18 (4)
- **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)
- **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)
- **Preface: Astrophysics of cosmic rays** *ADVANCES IN SPACE RESEARCH*
  Moskalenko, I. V., Seo, E.
  2022; 70 (9): 2583-2584
- **The GALPROP Cosmic-ray Propagation and Nonthermal Emissions Framework: Release v57** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Porter, T. A., Johannesson, G., Moskalenko, I. V.
  2022; 262 (1)
- **Gas and Cosmic-Ray Properties in the MBM 53, 54, and 55 Molecular Clouds and the Pegasus Loops Revealed by H i Line Profiles, Dust, and Gamma-Ray Data** *ASTROPHYSICAL JOURNAL*
  Mizuno, T., Hayashi, K., Metzger, J., Moskalenko, I., Orlando, E., Strong, A. W., Yamamoto, H.
  2022; 935 (2)
- **Exploring the MeV sky with a combined coded mask and Compton telescope: the Galactic Explorer with a Coded aperture mask Compton telescope (GECCO)** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Orlando, E., Bottacini, E., Moiseev, A. A., Bodaghee, A., Collmar, W., Ensslin, T., Moskalenko, I., Negro, M., Profumo, S., Digel, S. W., Thompson, D. J., Baring, M. G., Bolotnikov, et al
  2022
- **On the Origin of Observed Cosmic-Ray Spectrum Below 100 TV** *ASTROPHYSICAL JOURNAL*
  Malkov, M. A., Moskalenko, I. V.
  2022; 933 (1)
- **Spectra of Cosmic-Ray Sodium and Aluminum and Unexpected Aluminum Excess** *ASTROPHYSICAL JOURNAL*
  Boschini, M. J., Della Torre, S., Gervasi, M., Grandi, D., Johannesson, G., La Vacca, G., Masi, N., Moskalenko, I., Pensotti, S., Porter, T. A., Quadrani, L., Rancoita, P. G., Rozza, et al
  2022; 933 (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)
- **A Hint of a Low-energy Excess in Cosmic-Ray Fluorine** *ASTROPHYSICAL JOURNAL*
  Boschini, M. J., Della Torre, S., Gervasi, M., Grandi, D., Johannesson, G., La Vacca, G., Masi, N., Moskalenko, I., Pensotti, S., Porter, T. A., Quadrani, L., Rancoita, P. G., Rozza, et al

2022; 925 (2)

- **GALPROP Code for Galactic Cosmic Ray Propagation and Associated Photon Emissions**
  Moskalenko, I. V., Johannesson, G., Porter, T. A.
  edited by Keilhauer, B.
  PROCEEDINGS OF SCIENCE.2022

- **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)

- **Inference of the Local Interstellar Spectra of Cosmic-Ray Nuclei Z <= 28 with the GALPROP-HELMOD Framework (vol 250, 27, 2020)** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Boschini, M. J., Della Torre, S., Gervasi, M., Grandi, D., Johannesson, G., La Vacca, G., Masi, N., Moskalenko, I. V., Pensotti, S., Porter, T. A., Quadrani, L., Rancoita, P. G., Rozza, et al
  2021; 256 (2)

- **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)

- **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)

- **The Discovery of a Low-energy Excess in Cosmic-Ray Iron: Evidence of the Past Supernova Activity in the Local Bubble** *ASTROPHYSICAL JOURNAL*
  Boschini, M. J., Della Torre, S., Gervasi, M., Grandi, D., Johannesson, G., La Vacca, G., Masi, N., Moskalenko, I. V., Pensotti, S., Porter, T. A., Quadrani, L., Rancoita, P. G., Rozza, et al
  2021; 913 (1)

- **The TeV Cosmic-Ray Bump: A Message from the Epsilon Indi or Epsilon Eridani Star?** *The Astrophysical journal*
  Malkov, M. A., Moskalenko, I. V.
  2021; 911 (2)

- **The TeV Cosmic-Ray Bump: A Message from the Epsilon Indi or Epsilon Eridani Star?** *ASTROPHYSICAL JOURNAL*
  Malkov, M. A., Moskalenko, I. V.
  2021; 911 (2)

- **Dark matter interpretation of the Fermi-LAT observations toward the outer halo of M31** *PHYSICAL REVIEW D*
  Karwin, C. M., Murgia, S., Moskalenko, I., Fillingham, S. P., Burns, A., Fieg, M.
  2021; 103 (2)

- **Dark matter interpretation of the Fermi-LAT observations toward the outer halo of M31.** *Physical review. D. (2016)*
  Karwin, C. M., Murgia, S., Moskalenko, I. V., Fillingham, S. P., Burns, A. K., Fieg, M.
  2021; 103 (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

- **Inference of the Local Interstellar Spectra of Cosmic-Ray Nuclei Z <= 28 with the GALPROP-HELMOD Framework** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Boschini, M. J., Della Torre, S., Gervasi, M., Grandi, D., Johannesson, G., La Vacca, G., Masi, N., Moskalenko, I., Pensotti, S., Porter, T. A., Quadrani, L., Rancoita, P. G., Rozza, et al
  2020; 250 (2)

- **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)

- **Deciphering the Local Interstellar Spectra of Secondary Nuclei with the Galprop/Helmod Framework and a Hint for Primary Lithium in Cosmic Rays** *ASTROPHYSICAL JOURNAL*
  Boschini, M. J., Della Torre, S., Gervasi, M., Grandi, D., Johannesson, G., La Vacca, G., Masi, N., Moskalenko, I., Pensotti, S., Porter, T. A., Quadrani, L., Rancoita, P. G., Rozza, et al
  2020; 889 (2)

- **Deciphering Residual Emissions: Time-dependent Models for the Nonthermal Interstellar Radiation from the Milky Way** *ASTROPHYSICAL JOURNAL*
  Porter, T. A., Johannesson, G., Moskalenko, I. V.
  2019; 887 (2)

- **Advances in cosmic-ray astrophysics and related areas** *ADVANCES IN SPACE RESEARCH*
  Moskalenko, I. V., Seo, E.
  2019; 64 (12): 2417

- **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)

- **AAfrag: Interpolation routines for Monte Carlo results on secondary production in proton-proton, proton-nucleus and nucleus-nucleus interactions** *COMPUTER PHYSICS COMMUNICATIONS*
  Kachelriess, M., Moskalenko, I., Ostapchenko, S.
  2019; 245

- **AMS-100: The next generation magnetic spectrometer in space - An international science platform for physics and astrophysics at Lagrange point 2** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*
  Schael, S., Atanasyan, A., Berdugo, J., Bretz, T., Czupalla, M., Dachwald, B., von Doetinchem, P., Duranti, M., Gast, H., Karpinski, W., Kirn, T., Lubelsmeyer, K., Mana, et al
  2019; 944

- **Fermi-LAT Observations of gamma-Ray Emission toward the Outer Halo of M31** *ASTROPHYSICAL JOURNAL*
  Karwin, C. M., Murgia, S., Campbell, S., Moskalenko, I.
  2019; 880 (2)

- **Fermi-LAT Observations of γ-Ray Emission toward the Outer Halo of M31.** *The Astrophysical journal*
  Karwin, C. M., Murgia, S., Campbell, S., Moskalenko, I. V.
  2019; 880 (2)

- **Cosmic-Ray Propagation in Light of the Recent Observation of Geminga** *ASTROPHYSICAL JOURNAL*
  Johannesson, G., Porter, T. A., Moskalenko, I.
  2019; 879 (2)

- **Cosmic-Ray Propagation in Light of the Recent Observation of Geminga.** *The Astrophysical journal*

Jóhannesson, G., Porter, T. A., Moskalenko, I. V.
2019; 879 (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-+

- **Preface: Origins of cosmic rays** *ADVANCES IN SPACE RESEARCH*
  Moskalenko, I. V., Seo, E.
  2018; 62 (10): 2729–30

- **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)

- **Current status and desired precision of the isotopic production cross sections relevant to astrophysics of cosmic rays: Li, Be, B, C, and N** *PHYSICAL REVIEW C*
  Genolini, Y., Maurin, D., Moskalenko, I., Unger, M.
  2018; 98 (3)

- **Current status and desired precision of the isotopic production cross sections relevant to astrophysics of cosmic rays: Li, Be, B, C, and N.** *Physical review. C*
  Génolini, Y., Maurin, D., Moskalenko, I. V., Unger, M.
  2018; 98 (3)

- **Galactic PeVatrons and helping to find them: Effects of galactic absorption on the observed spectra of very high energy gamma-ray sources** *PHYSICAL REVIEW D*
  Porter, T. A., Rowell, G. P., Johannesson, G., Moskalenko, I. V.
  2018; 98 (4)

- **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
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