



Igor Moskalenko

Sr Res Scientist-Physical

W. W. Hansen Experimental Physics Laboratory

Bio

ACADEMIC APPOINTMENTS

- Sr Res Scientist-Physical, W. W. Hansen Experimental Physics Laboratory

HONORS AND AWARDS

- 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” 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)

Publications

PUBLICATIONS

- **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)
- **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)

- **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 $Z \leq 28$ 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 $Z \leq 28$ 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., Kim, 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 π -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
2018; 237 (2)
- **Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A** *SCIENCE*
Aartsen, M. G., Ackermann, M., Adams, J., Aguilar, J. A., Ahlers, M., Ahrens, M., Al Samarai, I., Altmann, D., Andeen, K., Anderson, T., Anseau, I., Anton, G., Argüelles, et al
2018; 361 (6398): 146-+
- **Fermi-LAT Observations of LIGO/Virgo Event GW170817** *ASTROPHYSICAL JOURNAL*
Ajello, M., Allafort, A., Axelsson, M., Baldini, L., Barbiellini, G., Baring, M. G., Bastieri, D., Bellazzini, R., Berenji, B., Bissaldi, E., Blandford, R. D., Bloom, E. D., Bonino, et al
2018; 861 (2)
- **Search for Gamma-Ray Emission from the Coma Cluster with Six Years of Fermi-LAT Data (vol 819, 149, 2016)** *ASTROPHYSICAL JOURNAL*
Ackermann, M., Ajello, M., Albert, A., Atwood, W. B., Baldini, L., Ballet, J., Barbiellini, G., Bastieri, D., Bechtol, K., Bellazzini, R., Bissaldi, E., Blandford, R. D., Bloom, et al
2018; 860 (1)
- **Deciphering the Local Interstellar Spectra of Primary Cosmic-Ray Species with HELMOD** *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
2018; 858 (1)

- **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)
- **GALPROP cosmic-ray propagation code: recent results and updates**
Orlando, E., Johannesson, G., Moskalenko, I., Porter, T. A., Strong, A.
ELSEVIER SCIENCE BV.2018: 129–34
- **GALPROP cosmic-ray propagation code: recent results and updates.** *Nuclear and particle physics proceedings*
Orlando, E., Johannesson, G., Moskalenko, I. V., Porter, T. A., Strong, A.
2018; 297-299: 129-134
- **The Three-dimensional Spatial Distribution of Interstellar Gas in the Milky Way: Implications for Cosmic Rays and High-energy Gamma-ray Emissions** *ASTROPHYSICAL JOURNAL*
Johannesson, G., Porter, T. A., Moskalenko, I. V.
2018; 856 (1)
- **The Three-dimensional Spatial Distribution of Interstellar Gas in the Milky Way: Implications for Cosmic Rays and High-energy Gamma-ray Emissions.** *The Astrophysical journal*
Jóhannesson, G., Porter, T. A., Moskalenko, I. V.
2018; 856 (1)
- **HelMod in the Works: From Direct Observations to the Local Interstellar Spectrum of Cosmic-Ray Electrons** *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
2018; 854 (2)
- **Einstein@Home discovers a radio-quiet gamma-ray millisecond pulsar** *SCIENCE ADVANCES*
Clark, C. J., Pletsch, H. J., Wu, J., Guillemot, L., Kerr, M., Johnson, T. J., Camilo, F., Salvetti, D., Allen, B., Anderson, D., Aulbert, C., Beer, C., Bock, et al
2018; 4 (2)
- **Einstein@Home discovers a radio-quiet gamma-ray millisecond pulsar.** *Science advances*
Clark, C. J., Pletsch, H. J., Wu, J., Guillemot, L., Kerr, M., Johnson, T. J., Camilo, F., Salvetti, D., Allen, B., Anderson, D., Aulbert, C., Beer, C., Bock, et al
2018; 4 (2): eaao7228
- **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)
- **High-energy Gamma Rays from the Milky Way: Three-dimensional Spatial Models for the Cosmic-Ray and Radiation Field Densities in the Interstellar Medium** *ASTROPHYSICAL JOURNAL*
Porter, T. A., Johannesson, G., Moskalenko, I. V.
2017; 846 (1)

- **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)
- **Solution of Heliospheric Propagation: Unveiling the Local Interstellar Spectra of Cosmic-ray Species** *ASTROPHYSICAL JOURNAL*
Boschini, M. J., Della Torre, S., Gervasi, M., Grandi, D., Johannesson, G., Kachelriess, M., La Vacca, G., Masi, N., Moskalenko, I. V., Orlando, E., Ostapchenko, S. S., Pensotti, S., Porter, et al
2017; 840 (2)
- **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 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
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