

## Special Issue

# Searching for Connections among the Fermi Bubbles, the Galactic Center GeV Excess, and Loop I

### Message from the Guest Editor

The Fermi bubbles, the Galactic center excess, and Loop I are bright extended sources of gamma rays. In spite of a significant effort to explain the origin of these objects, many unresolved questions remain. In this Special Issue we will review recent data analysis and theoretical modeling to search for possible connections among the three “elephants” in the gamma-ray sky. We will also discuss how future observations can shed light on the origin of these features.

---

### Guest Editor

Dr. Dmitry Malyshev

Erlangen Centre for Astroparticle Physics, Friedrich-Alexander-Universität Erlangen-Nürnberg, D 91058 Erlangen, Germany

---

### Deadline for manuscript submissions

closed (31 January 2018)



## Galaxies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.8  
CiteScore 6.3



[mdpi.com/si/11022](https://mdpi.com/si/11022)

*Galaxies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[galaxies@mdpi.com](mailto:galaxies@mdpi.com)

[mdpi.com/journal/  
galaxies](https://mdpi.com/journal/galaxies)





# Galaxies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.8  
CiteScore 6.3



[mdpi.com/journal/  
galaxies](https://mdpi.com/journal/galaxies)



## About the Journal

### Message from the Editorial Board

*Galaxies* provides an advanced forum for studies related to astronomy, astrophysics, and cosmology, including all of their subfields. Different formats, such as specialized research articles, reviews, communications and technical notes are welcomed. Manuscripts containing original and creative research proposals and ideas are especially appreciated.

We encourage scientists to publish their astronomical observations and theoretical results in as much detail as possible. There is no restriction on the paper length and full experimental and methodological details, as applicable, should be provided. All papers will be peer reviewed promptly. On behalf of the distinguished members of the editorial board, I extend my welcome to all researchers working on these subjects to contribute to *Galaxies*.

---

### Editors-in-Chief

Dr. Margo Aller

Department of Astronomy, University of Michigan, Ann Arbor, MI 48109-1042, USA

Dr. Jose L. Gómez

Instituto de Astrofísica de Andalucía (IAA-CSIC), Glorieta de la Astronomía S/N, 18008 Granada, Spain

---

### Author Benefits

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), Astrophysics Data System, INSPIRE, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Astronomy and Astrophysics) / CiteScore - Q2 (Astronomy and Astrophysics)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 23.4 days after submission; acceptance to publication is undertaken in 4.8 days (median values for papers published in this journal in the first half of 2025).