



## Particle Acceleration Processes in Astrophysical Jets

Guest Editors:

**Dr. Bidzina Kapanadze**

Abastumani Astrophysical  
Observatory, Ilia State University,  
0162 Tbilisi, Georgia

**Dr. Philip Hughes**

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

Deadline for manuscript  
submissions:

**closed (31 October 2020)**

### Message from the Guest Editors

Dear Colleagues,

This Issue reviews our current understanding of the particle acceleration processes at work in the jets of various extreme Galactic and extragalactic objects: protostars, X-ray binaries, microquasars, Fermi bubbles (as relics of Seyfert-type active Galactic nuclei), blazars, radio galaxies, and gamma-ray bursts. It emphasizes unresolved problems, and the importance of multiwavelength monitoring and high-resolution simulations for insight into the physical processes operating in the jets of various objects over a range of distances from the central engine.

[https://www.mdpi.com/journal/galaxies/special\\_issues/ParticleJ](https://www.mdpi.com/journal/galaxies/special_issues/ParticleJ)

Prof. Bidzina Kapanadze

Prof. Philip Hughes

*Guest Editors*





## 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

## 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*.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

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

**Journal Rank:** CiteScore - Q2 (*Astronomy and Astrophysics*)

## Contact Us

*Galaxies* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/galaxies](http://mdpi.com/journal/galaxies)  
[galaxies@mdpi.com](mailto:galaxies@mdpi.com)  
[X@Galaxies\\_MDPI](https://twitter.com/Galaxies_MDPI)