



Cosmic Plasmas and Electromagnetic Phenomena

Guest Editors:

Prof. Dr. Athina Meli

College of Science and
Technology, North Carolina A&T
State University, Greensboro, NC
27411, USA

Dr. Yosuke Mizuno

Institute for Theoretical Physics,
Goethe University Frankfurt,
60323 Frankfurt, Germany

Dr. Jose L. Gómez

Instituto de Astrofísica de
Andalucía-CSIC, Glorieta de la
astronomía s/n, Granada 18008,
Spain

Deadline for manuscript
submissions:

closed (7 November 2018)

Message from the Guest Editors

Dear Colleagues,

Cosmic plasmas are mostly associated with stars, supernovae, pulsars and neutron stars, quasars and active galaxies, mostly at their central black-holes (i.e., jets, accretion disks). Cosmic plasma phenomena are studied with different methods such as laboratory experiments, astrophysical observations and computational approaches (i.e., MHD or Particle-In-Cell simulations, etc.), exhibiting a multitude of complex magnetohydrodynamic behaviors, acceleration, radiation, turbulence and various instability phenomena. This Special Issue will aim to address the growing need of the plasma science principles in astrophysics and to present our current understanding of the physics of astrophysical plasmas, their electromagnetic behaviors and properties, such as shocks, waves, turbulence, instabilities, collimation, acceleration and radiation, microscopically and macroscopically. Therefore, our purpose will be to provide an up-to-date overview of the cosmic plasma studies widely through astrophysical observations, laboratory experiments, simulation techniques, and theoretical models.





an Open Access Journal by MDPI

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

Contact Us

Galaxies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/galaxies
galaxies@mdpi.com
[X@Galaxies_MDPI](https://twitter.com/Galaxies_MDPI)