

Special Issue

Cosmic Plasmas and Electromagnetic Phenomena

Message from the Guest Editors

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.

Guest Editors

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Dr. Jose L. Gómez

Deadline for manuscript submissions

closed (7 November 2018)



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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*.

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