

Special Issue

A New Window on the Radio Emission from Galaxies, Galaxy Clusters and Cosmic Web: Current Status and Perspectives

Message from the Guest Editors

The current radio astronomical interferometers, such as, for instance, LOFAR, ASKAP, MeerKAT, JVLA, uGMRT, and MWA, which are paving the way to the SKA, are providing breathtaking advances in our view of radio galaxies, galaxy clusters, and cosmic web. The image quality and fidelity of the present observational facilities as well as state-of-the-art numerical simulations are unveiling unexpected details which are challenging our knowledge. It is timely to review our current understanding and open questions of the radio galaxy phenomenon, the relation between radio galaxies and the surrounding environment, and of the origin of diffuse emission in galaxy clusters and beyond. The aim of this Special Issue is to review our knowledge in this field of research, present the new challenges we are facing and discuss scientific prospects over the next decade, in the light of the capabilities of the SKA.

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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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