



Challenges in Our Understanding of Dwarf Galaxies

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Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editors

Dear Colleagues,

Dwarf galaxies are the most numerous types of galaxies in the Universe and are considered as rich laboratories for testing different astrophysical and cosmological models and theories. During the past years, the increasingly precise observations of the dwarf galaxies in the Local Group, and the deep observations of dwarf galaxies in distant groups have provided exciting insights on the properties of these objects. Also, the progress in theoretical studies and the improvements in computer simulations have been advancing our understanding of the physical processes involved in the formation and evolution of dwarf galaxies and their relation to their environments.

Nevertheless, there are still unsolved puzzles in our understanding of dwarf galaxies, and the purpose of this special issue is to focus on and become a reference for these challenges and possible research paths towards their solution. Both review papers and focused research papers are welcomed, especially on the following key topics: past, current, and future dwarf galaxy surveys; dwarf galaxies in the Local Group and beyond; missing satellites; star formation in dwarf galaxies; etc.





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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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