

Special Issue

Multi-Messenger and Multi-Timescale Variability in Blazars

Message from the Guest Editors

Our knowledge of blazars—and active galactic nuclei, in general—has tremendously enriched thanks to the outpouring of observations from several ground- and space-bound telescopes operating in a wide range of electromagnetic spectral bandwidths. Similarly, the contemporaneous advancement in computers and computer science—e.g., machine learning—has significantly added to the large-scale simulations of the accretion disk around the supermassive black hole and parsec-scale relativistic jets. In spite of these successes, the details of the key blazar issues, e.g., the nature of the central engine, ejection of the relativistic jets, and emission of TeV emission still elude us. In such a context, blazar variability, with all its richness and complexity, continues to provide one of the most promising tools to probe the aforementioned issues. The purpose of this issue is to gather, in one volume, papers from leading researchers on the topics of Blazar variability on all timescales across the entire electromagnetic spectrum in addition to other mediums, such as particles and gravitational waves.

Guest Editors

Prof. Dr. James R. Webb

Department of Physics, Florida International University, Miami, FA 33199, USA

Dr. Gopal Bhatta

Department of Cosmic Ray Research and Neutrino Studies, Institute of Nuclear Physics, Polish Academy of Sciences, 31-342 Kraków, Poland

Deadline for manuscript submissions

closed (1 December 2021)



Galaxies

an Open Access Journal
by MDPI

Impact Factor 3.8
CiteScore 6.3



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Galaxies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
galaxies@mdpi.com

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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*.

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

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