

Special Issue

Fast Radio Bursts in the Era of Multi-Messenger Astrophysics

Message from the Guest Editors

Fast radio bursts (FRBs) are millisecond-duration, extremely luminous radio transients of extragalactic origin. This Special Issue aims to present and disseminate the most recent advances related to Fast Radio Bursts in the Era of Multi-Messenger Astrophysics. We consider contributions addressing theoretical models, observational discoveries, data analysis techniques, and the astrophysical implications of FRBs within a multi-messenger framework. Topics of interest for publication include, but are not limited to, the following:

- Progenitor models and central engine mechanisms of FRBs (e.g., magnetars, neutron star mergers, exotic objects).
- Multi-wavelength and multi-messenger counterparts and follow-up observations of FRBs.
- FRB cosmology and the use of FRBs as probes of the intergalactic medium and cosmic baryon distribution.
- High-time-resolution radio observations, polarization properties, and burst morphology.
- Population studies, event rates, and statistical properties of FRBs.
- Synergies between FRB studies and other transient phenomena (e.g., gamma-ray bursts, gravitational wave events).
- Future observatories and instrumental developments for FRB detection and localization.

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About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

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