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Research on Origins and Natures of Fast Radio Bursts

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Message from the Guest Editors

Fast radio bursts (FRBs) are mysterious millisecond-duration radio transients originating from cosmological distances. As the latest major puzzle in the universe, FRBs have been a subject of intense observational and theoretical investigations in recent years, including their physical origins, observation properties, radiation mechanisms and statistical characteristics. In addition to the FRB sources themselves, propagating effects, e.g., dispersion, Faraday rotation, temporal scattering, scintillation, depolarization, and gravitational/plasma lensing, also play important roles in interpreting FRB observations and constraining the properties of the FRB environment. The purpose of this Special Issue of *Universe* is to provide an overview of the main challenges and issues in the FRB field. It aims to collect recent breakthroughs and insights in FRB observation and research, observational properties of special FRB sources, statistical research and insights based on large FRB samples, new survey technologies and strategies, and multi-messenger observations and constraints, [...].

For further reading, please follow the **website** to the Special Issue.



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Special Issue



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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.

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