Special Issue

New Results from Gravitational Wave Detectors

Message from the Guest Editors

This Special Issue focuses on cutting-edge developments in gravitational wave detectors and instrumentation. It aims to showcase the latest innovations and advancements in the technology and methodologies that make gravitational wave astronomy possible. From enhancements in detector sensitivity and range to novel instrumentation techniques that improve signal acquisition and analysis, this Special Issue will cover a broad spectrum of research areas. We invite contributions that highlight theoretical, experimental, and applied research in gravitational wave detection technology. This includes, but is not limited to, advancements in laser interferometry, quantum noise reduction, signal processing techniques, detector design and optimization, and the integration of artificial intelligence for data analysis. Contributions that discuss the challenges of current detector technologies, as well as forward-looking perspectives on the future landscape of gravitational wave astronomy are also welcome. We look forward to receiving your contributions and to advancing our collective understanding of the universe through the lens of gravitational wave detectors and instrumentation.

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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.

Editor-in-Chief

Prof. Dr. Lorenzo Iorio
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