

Special Issue

Frontiers in Astroparticle Physics and Particle Cosmology

Message from the Guest Editors

The cosmos provides us with a continuous influx of cosmic rays ranging from the tiniest quanta of energy, such as the yet undetected cosmic background neutrinos, up to the most energetic single-particle events ever observed by humanity. In this rising age of gravitational wave observatories, neutrino telescopes, and exquisitely precise photon detectors, it is essential that we exploit this information through a truly interdisciplinary approach to multi-messenger astronomy. This entails an enormous spectrum of new opportunities across all frontiers, ranging from the exploration and characterization of cosmic sources, charting the decomposition, origin, and evolution of the universe all the way to the exploration of elementary particle properties themselves. All of which live at scales out of the reach of any future Earth-based collider.

Guest Editors

Dr. Paolo Maestro

Dr. Andreas Trautner

Dr. Toby Opferkuch

Deadline for manuscript submissions

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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

Prof. Dr. Lorenzo Iorio
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