Special Issue

Multi-Wavelength Properties of Gamma-Ray Binaries

Message from the Guest Editors

Gamma-ray binaries are a subclass of high-mass binary systems whose energy spectrum peaks at high energies and extends to very high energy gamma-rays. In these systems, a compact object is orbiting around a young, massive, either O- or B- type star. While high-mass binaries represent a substantial fraction of galactic X-ray sources detected above 2 keV, less than ten binaries were detected in the gamma-ray band by the current generation of Cherenkov telescopes. As such, gamma-ray binaries represent a relatively new and unexplored class of astrophysical objects able to accelerate particles with very high efficiency.

The purpose of this Special Issue is to report recent progress in the field, give an overview of the challenges and problems, to propose possible solutions and to discuss how future facilities will advance the field. We are convinced that this Special Issue will become a reference that reflects the current state-of-the- art and the progress to be made in a future.

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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

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