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Recent Advances in Gamma Ray Astrophysics and Future Perspectives

Guest Editor:

Dr. Patrizia Romano
National Institute of Astrophysics (INAF) – Brera Astronomical Observatory, 20121 Merate, Italy

Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editor

In recent decades, a variety of sources have been discovered for gamma-ray astrophysics above a few tens of GeV up to the PeV regime.While in the TeV energy band, we only have a few hundred sources, at lower energies, we have now started population studies thanks to the relatively high number (a few thousands) of both galactic and extragalactic gamma-ray emitters.

Gamma-ray sources not only show transient, periodic, flaring or steady emission levels but could be detected almost across the entire electromagnetic spectrum, making them excellent targets for multifrequency studies.

The present Special Issue aims to host several contributions (both theoretical and observational) dealing with diverse aspects related to the frontiers in gamma-ray research. Potential topics include but are not limited to:

- Gamma-ray bursts;
- Accreting binaries;
- Supernova remnants;
- Active galactic nuclei;
- Transients;
- Ground-based instrumentation for gamma-ray astrophysics;
- Space-based instrumentation for gamma-ray astrophysics;
- Software and infrastructure for gamma-ray astrophysics.

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Editor-in-Chief

Prof. Dr. Lorenzo Iorio
Ministero dell'Istruzione e del Merito, Viale Unità di Italia 68, 70125 Bari, BA, Italy

Message from the Editor-in-Chief

The multidisciplinary *Universe* journal 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 editorial board, I extend my welcome to this new journal and look forward to hearing from the interested contributors and learning about their valuable research.

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Contact Us

Universe Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/universe
universe@mdpi.com
𝕏@Universe_MDPI