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Particles and Fields in Black Hole Environment

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Deadline for manuscript submissions:
closed (31 May 2022)

Message from the Guest Editors

Dear Colleagues,

There has been a rapidly growing interest in the study of relativistic astrophysics of gravitational compact objects due to several recent achievements: The recent direct detection of gravitational waves from the numerous events of merging gravitational compact objects in a close black hole and neutron star binaries by LIGO-VIRGO scientific collaboration, the measurement of general relativistic effects in strong gravity regime in the environment of the supermassive black hole Sagittarius A* at the Milky Way center by the ESOs GRAVITY instrument, and the first image of a black hole shadow in the center of elliptic galaxy M87 by the Event Horizon Telescope. In light of these recent successes of the general relativity in strong gravity, the scope of this Special Issue is to open discussion of these topics to researchers working in areas such as Mathematical and Theoretical Physics, General Relativity, and Relativistic and Observational Astrophysics.

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Message from the Editorial Board

Galaxies provides an advanced forum for studies related to astronomy, astrophysics, and cosmology, including all of their subfields. Different formats, such as specialized research articles, reviews, communications and technical notes are welcomed. Manuscripts containing original and creative research proposals and ideas are especially appreciated.

We encourage scientists to publish their astronomical observations and theoretical results in as much detail as possible. There is no restriction on the paper length and full experimental and methodological details, as applicable, should be provided. All papers will be peer reviewed promptly. On behalf of the distinguished members of the editorial board, I extend my welcome to all researchers working on these subjects to contribute to *Galaxies*.

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