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From Vision to Instrument: Creating a Next-Generation Event Horizon Telescope for a New Era of Black Hole Science

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closed (15 November 2022)

Message from the Guest Editors

Dear Colleagues,

In April 2019, the Event Horizon Telescope Collaboration successfully imaged the first supermassive black hole (M87*), opening a new era in detailed study of these exotic objects. By sharply enhancing the capabilities of black hole imaging, the next-generation EHT (ngEHT) is poised to again revolutionize our view of horizon-scale physics. The ngEHT will enable the first movies of black hole accretion, produce high-dynamic-range images that connect black holes directly to their galactic-scale relativistic jets, and bring into range a larger population of black holes and explosive transients to explore.

This Special Issue will be the first series of papers developing the key science drivers and architecture of the ngEHT. Contributions will sharpen the ngEHT scientific vision and implementation by illuminating and proposing new possibilities in the related areas.

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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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