

Special Issue on The Mathematical Perspective of Black Holes and Wormholes

Call for Papers

A black hole, as known since several decades, is formed as a result of continued gravitational collapse of matter, consisting of a singularity covered by an event horizon. In recent years, there are several ways that have been used to detect black holes. Among them, gravitational lensing method is the best candidate.

The wormhole is very interesting subject in modern cosmology, since Morris and Throne have verified the realistic possibilities of constructing a traversable wormhole space-time and travelling through it in the theoretical context of the general relativity.

We invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts to understand the black hole and wormhole physics. Potential topics include, but are not limited to:

- The search for black holes
- Gravastars, alternative to black holes
- On closed time-like curves
- Black holes and wormholes in quantum gravity
- Gravitational lensing by wormholes and black holes
- Black holes and wormhole thermodynamics

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