Special Issue

Causal Relativistic Hydrodynamics for Viscous Fluids

Message from the Guest Editor

Stimulated by the application of relativistic heavy ion collisions and new theoretical developments, such as the derivation of hydrodynamics from holography, the field of relativistic real fluids has seen unprecedented activity in later years. We now have a consistent framework where relativistic viscous hydrodynamics is regarded as a low-energy effective theory enforcing relevant conservation laws, as well as the Second Law of Thermodynamics. Moreover, the solutions to this effective theory act as an attractor to the evolution of the system regarding less coarse-grained descriptions. The aim of this Special Issue is to offer a platform for the leaders in the field in recent years, for newcomers, and for people whose main interest lies not in relativistic hydrodynamics, but in fields where relativistic hydro is likely to make major contributions, to exchange views on the present state of the art, the main challenges confronting us, and the new applications ready to be explored.

Guest Editor

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Editor-in-Chief

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