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Thermal Conductivity on Curved Manifolds in the Hydrodynamic Limit

Wednesday, 11 January 2017 17:05 (25 minutes)

In this talk we are going to study hydrodynamics on curved manifolds, inspired by the holographic prescription for obtaining the thermoelectric DC conductivities of the boundary theory by solving the Navier-Stokes equations on black hole horizons. We place the underlying conformal field theory on curved space and we derive the Navier-Stokes equations after the application of a thermal gradient. We also discuss aspects of the thermal DC and AC conductivities in the hydrodynamic limit.

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