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Transport in holographic systems with momentum dissipation

Monday, 13 April 2015 09:40 (40 minutes)

Gauge/gravity duality can be used to study the transport properties of strongly interacting systems with no quasiparticles. I will give an overview of some holographic toy models of states like this, in which momentum is not conserved and thus the transport of energy and charge is non-trivial. I will describe how the transport properties of the most basic such example can be understood in terms of two simple, non-holographic, effective theories, one of which is valid when momentum dissipates slowly and one when it dissipates quickly.

Presenter: DAVISON, Richard

Session Classification: Morning session