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Diffusion and incoherence

Wednesday, 15 April 2015 11:50 (30 minutes)

Charge and heat diffusion are essential handles to grasp the transport of strongly coupled systems where momentum is quickly dissipated. Holography without momentum conservation allows to compute the diffusion constants and explore the formulation of (possibly general) bounds in analogy with the eta/s bound. The talk focuses on the description of the diffusion constants computation and properties highlighting the strength and limitations of the associated conjectured bounds, especially in view of attacking the strange metal transport physics from the diffusion side.

Presenter: MUSSO, Daniele

Session Classification: Morning session