

Contribution ID: 39

Type: **not specified**

On conductivities in anomalous hydrodynamics

Thursday, 16 March 2023 15:30 (20 minutes)

In this talk I will review some recent results on conductivities in anomalous hydrodynamics. In particular, I will discuss our recent paper [2212.09761] which demonstrates that when the magnetic field is treated as order one in derivatives the gauge anomaly makes no contribution to the appropriately truncated low frequency conductivity. I will also argue that there is a preferential choice for the anomalous contributions to the constitutive relations which can be seen by treating the magnetic field as order zero in derivatives. Then I will discuss upcoming results on relaxation terms in relaxed or quasihydrodynamics and their relevance for anomalous transport.

Presenter: BRATTAN, Daniel (CPhT, Ecole Polytechnique)

Session Classification: EFT for chiral media