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From strange metals to black holes and back: effective theories of thermoelectric transport

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What can Gauge/Gravity duality teach us about Condensed Matter physics? While the search goes on for gravitational duals to strange metals and other strongly-coupled Condensed Matter systems, I'll discuss two specific examples where holographic computations have allowed us to formulate effective theories of thermoelectric transport, the existence of which does not rely on holography or long-lived Landau quasiparticles. One is a scaling theory of thermal quantum critical transport, the other a theory of 'hydrodynamics' without conserved momentum.

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