

Applications of gauge/gravity duality

Wednesday, 19 December 2018 14:40 (20 minutes)

This talk will discuss scenarios where the gauge/gravity duality can be applied to non-perturbative regimes in physics. The standard model explains many phenomena seen in nature but relies on techniques that only work in small coupling. The gauge/gravity duality is a way in which we can try to obtain theoretical predictions for areas such as strongly coupled condensed matter and the low energy regime of QCD. Specifically this talk will focus on momentum dissipation effects on zero sound in strange metals and the benefit of exploring holographic imaginary chemical potential in the QCD phase diagram.

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