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Effective low-temperature holographic theories

jeudi 9 février 2023 11:00 (1 heure)

Gauge/gravity duality allows us to construct exact renormalization group flows (sometimes only numerically) by turning on relevant deformations of ultraviolet conformal field theories with a gravitational dual. However, identifying the corresponding effective degrees of freedom at low temperatures and writing down an effective theory for them remains a non-trivial task. I will describe recent progress in this direction on RG flows with emergent Lorentz invariance, and finish with some comments on how this could shed light on the case of spacetimes with an emergent AdS2 factor, which are dual to higher-dimensional extensions of the SYK model.

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