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Holographic local quench, complexity and chaos

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A charged falling particle in an AdS space is studied as a holographic model of local charged quench. The evolution of holographic complexity in the conformal field theory following a local quench is studied using both the "complexity equals volume"(CV) and the "complexity equals action"(CA) conjectures in various models. The connection between operator size in chaotic theories and the bulk momentum of a particle falling into black holes is also discussed in a broad class of models involving certain non-local theories.

Session

Formal Theory

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