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Thermalization of a strongly interacting non abelian plasma

Saturday, 8 July 2017 10:00 (20 minutes)

The thermalization process of an out-of-equilibrium boost-invariant strongly interacting non-Abelian plasma is investigated using a holographic method. Boundary sourcing, a distortion of the boundary metric, is employed to drive the system far from equilibrium. Thermalization is analyzed in the fully dynamical system through nonlocal probes: the equal-time two-point correlation function of large conformal dimension operators in the boundary theory, and Wilson loops of different shapes. A dependence of the thermalization time on the size of the probes is found, which can be compared to the result of local observables: the onset of thermalization is first observed at short distances.

Experimental Collaboration

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