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On the GCL prescription for Schwinger-Keldysh holography

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The complete description of non-equilibrium quantum dynamics necessitates the use of the so-called doubled Schwinger-Keldysh contour in complex time. Recently, Glorioso, Crossley and Liu proposed a convienent prescription for obtaining such SK effective actions from holography, by considering a specific contour in the complex bulk radial plane.

In this work we show how the GCL prescription can be derived from the Skenderis-van Rees prescription for real-time holography, which instructs us to fill in the boundary path integral contour with (generally complex) manifolds. We also comment on the applicability of the GCL prescription in near-equilibrium, hydrodynamic settings.

Link to publication (if applicable)

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