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Hydrodynamic Long-time tails in large-N systems

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In holographic systems with large N, the hydrodynamic derivative expansion converges in momentum space. However, the first subleading effect in the 1/N expansion results in a long-time tail in the hydrodynamic response, leading to breakdown of the derivative expansion. This talk explores how these subleading corrections can be systematically incorporated by modifying the derivative expansion, thereby addressing the impact of long-time tails on hydrodynamic behavior in large-N systems.

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