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Hydrodynamics Off Equilibrium

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Having a thermalized system is the textbook requirement for the applicability of hydrodynamics. However, there is mounting evidence that hydrodynamics offers a good quantitative description even in off-equilibrium situations. Recent applications of resurgence to relativistic fluid dynamics in the context of conformal systems is able to put the new, generalized theory of off-equilibrium fluid dynamics on solid theoretical footing, without requiring near local equilibrium or even isotropy. This potentially explains the 'unreasonable success' of hydrodynamics in describing experimental data for p+p and p+A collisions

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